

**LAMPIRAN 1**  
**BIODATA PENULIS**

## BIODATA PENULIS



**Nama** : Dwi Suryono

**Program Studi** : DIII-Teknik Mesin

**E-mail** : dwisuryono22@gmail.com

**Tempat dan tanggal lahir** : Cilacap, !0 Juni 2003

**Alamat** : Jalan Sulawesi Gang Ujung Pandang, RT 01/RW  
12, Gunungsimping, Cilacap Tengah, Cilacap,  
53224

**No.Telepon** : 085866067813

**Hobi** : Bersepeda

**Motto** : Membesarkan api yang redup, menerangi jalan  
yang dilalui

**Pendidikan** : 2021 - 2024 : Politeknik Negeri Cilacap  
2018 - 2021 : SMK Negeri Cilacap  
2015 - 2018 : SMP Negeri 4 Cilacap

**LAMPIRAN 2**  
**KUESIONER & VERIFIKASI**

**KUESIONER TERHADAP MESIN YANG AKAN DIBUAT PADA USAHA  
TAHU BAKSO NENG ESTY**

Nama Tempat : Tahu Bakso Neng Esty

Lokasi : Jalan Sulaweri gang Ujung Pandang RT 01/12, Gunungsimping,  
Cilacap Tengah, Cilacap, 53224

| No | Pertanyaan  | Jawaban            |
|----|---|--------------------|
| 1  | Berapa banyak adonan bakso yang dibuat dalam sekali pembuatan                                   | 10 kg adonan bakso |
| 2  | Berapa orang yang dibutuhkan dalam pembuatan bakso saat ini sebelum adanya mesin pencetak bakso | 1 orang            |
| 3  | Berapa diameter bakso yang diinginkan?  | 2 cm               |
| 4  | Berapa berat 1 bakso jika ditimbang?  | 10 gram            |
| 5  | Berapa banyak bakso yang ingin di produksi setelah mesin ini selesai?                           | 40 kg              |
| 6  | Berapa daya listrik yang diinginkan dari mesin pencetak bakso?                                  | 373 watt           |
| 7  | Apakah memerlukan tempat kompor untuk memanaskan adonan?  | Iya                |
| 8  | Apakah benar ada bantuan mesin motor listrik 0,5 HP untuk pembuatan mesin pencetak bakso ini?   | Iya                |

Cilacap, 2 Mei 2024



ESTY Pancarwabi

## LEMBAR VERIFIKASI

|                    |   |  |
|--------------------|---|--|
| Nama Mesin         | : | Mesin Pencetak Bakso   |
| Dimensi            | : | 500 mm × 400 mm × 1530 mm                                    |
| Daya               | : | 0,5 HP   |
| Kapasitas tampung  | : | 10,27 kg   |
| Kapasitas produksi | : | 240 butir/menit  |
| Kendala            | : | Butir bakso yang jatuh masih belum terbentuk dengan sempurna |

Telah dilakukan verifikasi mesin pencetak bakso kepada rumah produksi Neng Esty bahwa mesin pencetak bakso sudah selesai dengan spesifikasi dengan kendala yang sudah ditunjukkan.

Cilacap, 30 Agustus 2024



**LAMPIRAN 3**  
**STANDAR BAJA**

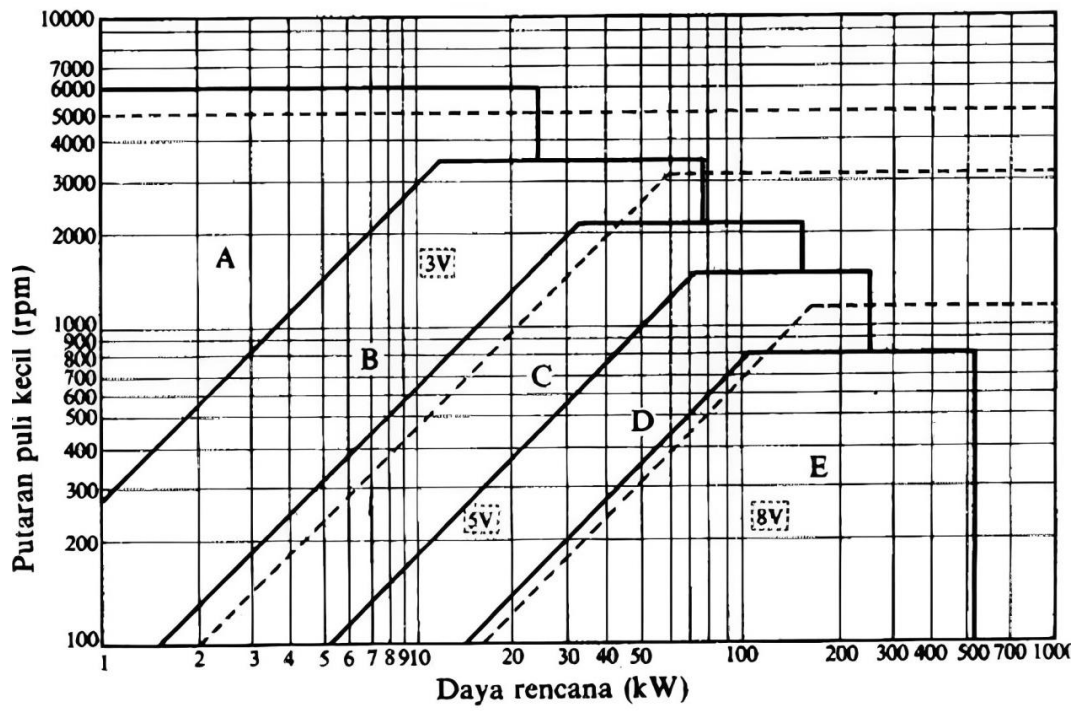
| Standar dan macam                         | Lambang | Perlakuan panas | Kekuatan tarik (kg/mm <sup>2</sup> ) | Keterangan  |
|---|---------|-----------------|--------------------------------------|---|
| Baja karbon konstruksi mesin (JIS G 4501) | S30C    | Penormalan      | 48                                   |   |
|   | S35C    | "               | 52                                   |   |
|   | S40C    | "               | 55                                   |   |
|   | S45C    | "               | 58                                   |   |
|   | S50C    | "               | 62                                   |   |
|   | S55C    | "               | 66                                   |   |
| Batang baja yang difinis dingin           | S35C-D  | -               | 53                                   | ditarik dingin, digerinda, dibubut, atau gabungan antara hal-hal tersebut |
|   | S45C-D  | -               | 60                                   |   |
|   | S55C-D  | -               | 72                                   |   |

| Standar dan macam                      | Lambang | Perlakuan panas  | Kekuatan tarik (kg/mm <sup>2</sup> ) |
|--|---------|------------------|--------------------------------------|
| Baja khrom nikel (JIS G 4102)          | SNC 2   | -                | 85                                   |
|  | SNC 3   | -                | 95                                   |
|  | SNC21   | Pengerasan kulit | 80                                   |
|  | SNC22   | "                | 100                                  |
| Baja khrom nikel molibden (JIS G 4103) | SNCM 1  | -                | 85                                   |
|  | SNCM 2  | -                | 95                                   |
|  | SNCM 7  | -                | 100                                  |
|  | SNCM 8  | -                | 105                                  |
|  | SNCM22  | Pengerasan kulit | 90                                   |
|  | SNCM23  | "                | 100                                  |
| Baja khrom (JIS G 4104)                | SCr 3   | -                | 90                                   |
|  | SCr 4   | -                | 95                                   |
|  | SCr 5   | -                | 100                                  |
|  | SCr21   | Pengerasan kulit | 80                                   |
|  | SCr22   | "                | 85                                   |
| Baja khrom molibden (JIS G 4105)       | SCM 2   | -                | 85                                   |
|  | SCM 3   | -                | 95                                   |
|  | SCM 4   | -                | 100                                  |
|  | SCM 5   | -                | 105                                  |
|  | SCM21   | Pengerasan kulit | 85                                   |
|  | SCM22   | "                | 95                                   |
|  | SCM23   | "                | 100                                  |

| Nama                         | Standar Jepang (JIS)   | Standar Amerika (AISI), Inggris (BS), dan Jerman (DIN)  |
|------------------------------|--|---|
| Baja karbon konstruksi mesin | S25C<br>S30C<br>S35C<br>S40C<br>S45C ✓<br>S50C<br>S55C             | AISI 1025, BS060A25<br>AISI 1030, BS060A30<br>AISI 1035, BS060A35, DIN C35<br>AISI 1040, BS060A40<br>AISI 1045, BS060A45, DIN C45, CK45 ✓<br>AISI 1050, BS060A50, DIN St 50.1i<br>AISI 1055, BS060A55 |
| Baja tempa                   | SF 40,45<br>50,55  | ASTM A105-73  |
| Baja nikel khrom             | SNC<br>SNC22   | BS 653M31<br>BS En36  |
| Baja nikel khrom molibden    | SNCM 1<br>SNCM 2<br>SNCM 7<br>SNCM 8<br>SNCM22<br>SNCM23<br>SNCM25 | AISI 4337<br>BS830M31<br>AISI 8645, BS En100D<br>AISI 4340, BS817M40, 816M40<br>AISI 4315<br>AISI 4320, BS En325<br>BS En39B  |
| Baja khrom                   | SCr 3<br>SCr 4<br>SCr 5<br>SCr21<br>SCr22                          | AISI 5135, BS530A36<br>AISI 5140, BS530A40<br>AISI 5145<br>AISI 5115<br>AISI 5120   |
| Baja khrom molibden          | SCM2<br>SCM3<br>SCM4<br>SCM5                                       | AISI 4130, DIN 34CrMo4<br>AISI 4135, BS708A37, DIN34CrMo4<br>AISI 4140, BS708M40, DIN42CrMo4<br>AISI 4145, DIN50CrMo4   |



**LAMPIRAN 4**  
**DAYA RENCANA**

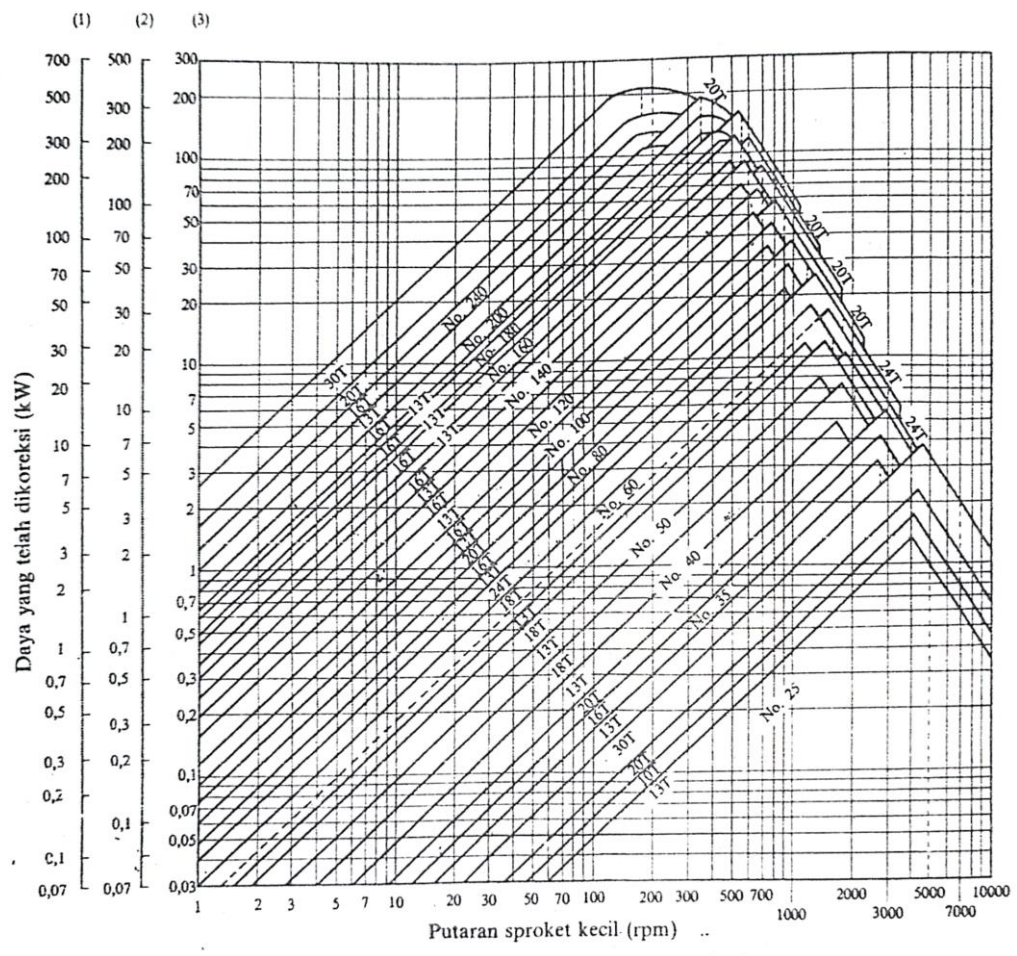


**LAMPIRAN 5**  
**FAKTOR KOREKSI**

| Mesin yang digerakkan      |  | Penggerak   |          |           |   |          |           |
|----------------------------|--|---|----------|-----------|---|----------|-----------|
|                            |  | Momen puntir puncak 200%  |          |           | Momen puntir puncak > 200%  |          |           |
|                            |  | Motor arus bolak-balik (momen normal, sangkar bajing, sinkron), motor arus searah (lilitan shunt) |          |           | Motor arus bolak-balik (momen tinggi, fasa tunggal, lilitan seri), motor arus searah (lilitan kompon, lilitan seri), mesin torak, kopling tak tetap |          |           |
|                            |  | Jumlah jam kerja tiap hari  |          |           | Jumlah jam kerja tiap hari  |          |           |
|                            |  | 3-5 jam   | 8-10 jam | 16-24 jam | 3-5 jam   | 8-10 jam | 16-24 jam |
| Variasi beban sangat kecil | Pengaduk zat cair, kipas angin, blower (sampai 7,5 kW) pompa sentrifugal, konveyor tugas ringan  | 1,0   | 1,1      | 1,2       | 1,2   | 1,3      | 1,4       |
| Variasi beban kecil        | Konveyor sabuk (pasir, batu bara), pengaduk, kipas angin (lebih dari 7,5 kW), mesin torak, peluncur, mesin perkakas, mesin percetakan. | 1,2   | 1,3      | 1,4       | 1,4   | 1,5      | 1,6       |
| Variasi beban sedang       | Konveyor (ember, sekrup), pompa torak, kompresor, gilingan palu, pengocok, roots-blower, mesin tekstil, mesin kayu                     | 1,3   | 1,4      | 1,5       | 1,6   | 1,7      | 1,8       |
| Variasi beban besar        | Penghancur, gilingan bola atau batang, pengangkat, mesin pabrik karet (rol, kalender)  | 1,5   | 1,6      | 1,7       | 1,8   | 1,9      | 2,0       |

| Tumbukan        | Penggerak<br>Pemakaian  | Motor listrik<br>atau turbin | Motor torak               |                          |
|-----------------|---|------------------------------|---------------------------|--------------------------|
|                 |   |                              | Dengan transmisi hidrolik | Tanpa transmisi hidrolik |
| Transmisi halus | Konveyor sabuk dan rantai dengan variasi beban kecil, pompa sentrifugal dan blower, mesin tekstil umum, mesin industri umum dengan variasi beban kecil                      | 1,0                          | 1,0                       | 1,2                      |
| Tumbukan sedang | Kompresor sentrifugal, propeler, konveyor dengan sedikit variasi beban, tanur otomatis, pengering, penghancur, mesin perkakas umum, alat-alat besar umum, mesin kertas umum | 1,3                          | 1,2                       | 1,4                      |
| Tumbukan berat  | Pres, penghancur, mesin pertambangan, bor minyak bumi, pencampur karet, rol, mesin penggetar, mesin-mesin umum dengan putaran dapat dibalik atau beban tumbukan             | 1,5                          | 1,4                       | 1,7                      |

**LAMPIRAN 6**  
**DIAGRAM PEMILIHAN RANTAI ROL**



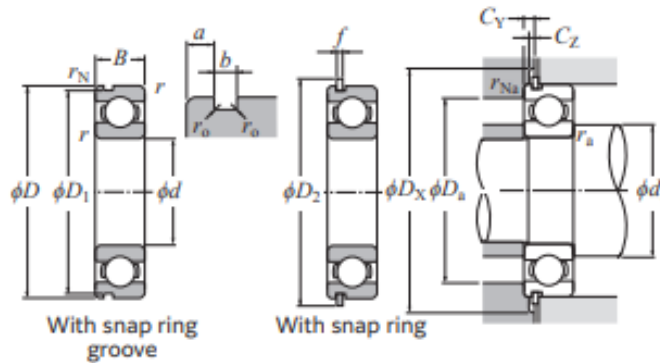
**LAMPIRAN 7**  
**BANTALAN**



| Jenis bantalan           |                     | Beban putar pd cincin dalam | Beban putar pada cincin luar | Baris tunggal  |      | Baris ganda       |      |      |      | e    | Baris tunggal  |      | Baris ganda    |                |                |                |
|--------------------------|---------------------|-----------------------------|------------------------------|----------------|------|-------------------|------|------|------|------|----------------|------|----------------|----------------|----------------|----------------|
|                          |                     |                             |                              | $F_a/VF_r > e$ |      | $F_a/VF_r \leq e$ |      |      |      |      | $F_a/VF_r > e$ |      | X <sub>0</sub> | Y <sub>0</sub> | X <sub>0</sub> | Y <sub>0</sub> |
|                          |                     |                             |                              | X              | Y    | X                 | Y    | X    | Y    |      | X              | Y    |                |                |                |                |
| Bantalan bola alur dalam | $F_a/C_0 = 0,014$   | 1                           | 1,2                          |                | 2,30 |                   |      |      | 2,30 | 0,19 |                |      |                |                |                |                |
|                          | $= 0,028$           |                             |                              |                | 1,99 |                   |      |      | 1,90 | 0,22 |                |      |                |                |                |                |
|                          | $= 0,056$           |                             |                              |                | 1,71 |                   |      |      | 1,71 | 0,26 |                |      |                |                |                |                |
|                          | $= 0,084$           |                             |                              |                | 1,55 |                   |      |      | 1,55 | 0,28 |                |      |                |                |                |                |
|                          | $= 0,11$            |                             |                              |                | 1,45 | 1                 | 0    | 0,56 | 1,45 | 0,30 | 0,6            | 0,5  | 0,6            | 0,5            |                |                |
|                          | $= 0,17$            |                             |                              |                | 1,31 |                   |      |      | 1,31 | 0,34 |                |      |                |                |                |                |
|                          | $= 0,28$            |                             |                              |                | 1,15 |                   |      |      | 1,15 | 0,38 |                |      |                |                |                |                |
|                          | $= 0,42$            |                             |                              |                | 1,04 |                   |      |      | 1,04 | 0,42 |                |      |                |                |                |                |
|                          | $= 0,56$            |                             |                              |                |      | 1,00              | 0,44 |      |      |      |                |      |                |                |                |                |
| Bantalan bola sudut      | $\alpha = 20^\circ$ | 1                           | 1,2                          | 0,43           | 1,00 | 1,09              | 0,70 | 1,63 | 0,57 |      | 0,42           |      | 0,84           |                |                |                |
|                          | $= 25^\circ$        |                             |                              | 0,41           | 0,87 | 0,92              | 0,67 | 1,41 | 0,68 |      | 0,38           |      | 0,76           |                |                |                |
|                          | $= 30^\circ$        |                             |                              | 0,39           | 0,76 | 1                 | 0,78 | 0,63 | 1,24 | 0,80 | 0,5            | 0,33 | 1              | 0,66           |                |                |
|                          | $= 35^\circ$        |                             |                              | 0,37           | 0,66 |                   | 0,66 | 0,60 | 1,07 | 0,95 |                | 0,29 |                | 0,58           |                |                |
|                          | $= 40^\circ$        |                             |                              | 0,35           | 0,57 |                   | 0,55 | 0,57 | 0,93 | 1,14 |                | 0,26 |                | 0,52           |                |                |

| Faktor keandalan (%) | $L_n$    | $a_1$ |
|----------------------|----------|-------|
| 90                   | $L_{10}$ | 1     |
| 95                   | $L_5$    | 0,62  |
| 96                   | $L_4$    | 0,53  |
| 97                   | $L_3$    | 0,44  |
| 98                   | $L_2$    | 0,33  |
| 99                   | $L_1$    | 0,21  |

| Nomor bantalan |           |                        | Ukuran luar (mm) |     |     |     | Kapasitas nominal dinamis spesifik $C$ (kg) | Kapasitas nominal statis spesifik $C_0$ (kg) |
|----------------|-----------|------------------------|------------------|-----|-----|-----|---|--|
| Jenis terbuka  | Dua sekat | Dua sekat tanpa kontak | $d$              | $D$ | $B$ | $r$ |   |  |
| 6000           |           |                        | 10               | 26  | 8   | 0,5 | 360   | 196  |
| 6001           | 6001ZZ    | 6001VV                 | 12               | 28  | 8   | 0,5 | 400   | 229  |
| 6002           | 02ZZ      | 02VV                   | 15               | 32  | 9   | 0,5 | 440   | 263  |
| 6003           | 6003ZZ    | 6003VV                 | 17               | 35  | 10  | 0,5 | 470   | 296  |
| 6004           | 04ZZ      | 04VV                   | 20               | 42  | 12  | 1   | 735   | 465  |
| 6005           | 05ZZ      | 05VV                   | 25               | 47  | 12  | 1   | 790   | 530  |
| 6006           | 6006ZZ    | 6006VV                 | 30               | 55  | 13  | 1,5 | 1030  | 740  |
| 6007           | 07ZZ      | 07VV                   | 35               | 62  | 14  | 1,5 | 1250  | 915  |
| 6008           | 08ZZ      | 08VV                   | 40               | 68  | 15  | 1,5 | 1310  | 1010   |
| 6009           | 6009ZZ    | 6009VV                 | 45               | 75  | 16  | 1,5 | 1640  | 1320   |
| 6010           | 10ZZ      | 10VV                   | 50               | 80  | 16  | 1,5 | 1710  | 1430   |
| 6200           | 6200ZZ    | 6200VV                 | 10               | 30  | 9   | 1   | 400   | 236  |
| 6201           | 01ZZ      | 01VV                   | 12               | 32  | 10  | 1   | 535   | 305  |
| 6202           | 02ZZ      | 02VV                   | 15               | 35  | 11  | 1   | 600   | 360  |
| 6203           | 6203ZZ    | 6203VV                 | 17               | 40  | 12  | 1   | 750   | 460  |
| 6204           | 04ZZ      | 04VV                   | 20               | 47  | 14  | 1,5 | 1000  | 635  |
| 6205           | 05ZZ      | 05VV                   | 25               | 52  | 15  | 1,5 | 1100  | 730  |
| 6206           | 6206ZZ    | 6206VV                 | 30               | 62  | 16  | 1,5 | 1530  | 1050   |
| 6207           | 07ZZ      | 07VV                   | 35               | 72  | 17  | 2   | 2010  | 1430   |
| 6208           | 08ZZ      | 08VV                   | 40               | 80  | 18  | 2   | 2380  | 1650   |
| 6209           | 6209ZZ    | 6209VV                 | 45               | 85  | 19  | 2   | 2570  | 1880   |
| 6210           | 10ZZ      | 10VV                   | 50               | 90  | 20  | 2   | 2750  | 2100   |
| 6300           | 6300ZZ    | 6300VV                 | 10               | 35  | 11  | 1   | 635   | 365  |
| 6301           | 01ZZ      | 01VV                   | 12               | 37  | 12  | 1,5 | 760   | 450  |
| 6302           | 02ZZ      | 02VV                   | 15               | 42  | 13  | 1,5 | 895   | 545  |
| 6303           | 6303ZZ    | 6303VV                 | 17               | 47  | 14  | 1,5 | 1070  | 660  |
| 6304           | 04ZZ      | 04VV                   | 20               | 52  | 15  | 2   | 1250  | 785  |
| 6305           | 05ZZ      | 05VV                   | 25               | 62  | 17  | 2   | 1610  | 1080   |
| 6306           | 6306ZZ    | 6306VV                 | 30               | 72  | 19  | 2   | 2090  | 1440   |
| 6307           | 07ZZ      | 07VV                   | 35               | 80  | 20  | 2,5 | 2620  | 1840   |
| 6308           | 08ZZ      | 08VV                   | 40               | 90  | 23  | 2,5 | 3200  | 2300   |
| 6309           | 6309ZZ    | 6309VV                 | 45               | 100 | 25  | 2,5 | 4150  | 3100   |
| 6310           | 10ZZ      | 10VV                   | 50               | 110 | 27  | 3   | 4850  | 3650   |



**Dynamic equivalent radial load**

$$P_r = XF_r + YF_a$$

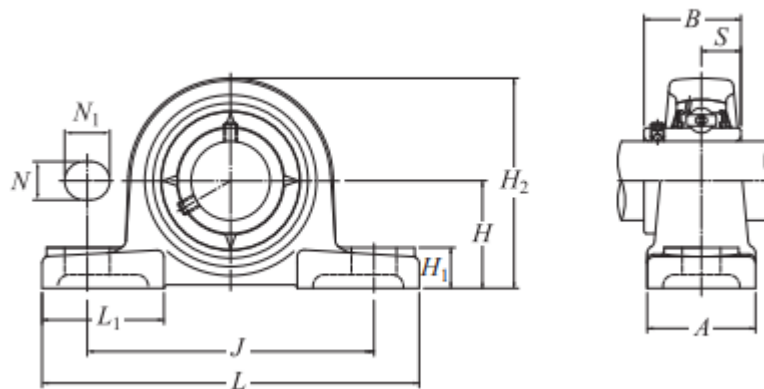
| $\frac{f_0 \cdot F_a}{C_{0r}}$ | e    | $\frac{F_a}{F_r} \leq e$ |   | $\frac{F_a}{F_r} > e$ |      |
|--------------------------------|------|--------------------------|---|-----------------------|------|
|                                |      | X                        | Y | X                     | Y    |
| 0.172                          | 0.19 | 1                        | 0 | 0.56                  | 2.30 |
| 0.345                          | 0.22 |                          |   |                       | 1.99 |
| 0.689                          | 0.26 |                          |   |                       | 1.71 |
| 1.03                           | 0.28 |                          |   |                       | 1.55 |
| 1.38                           | 0.30 |                          |   |                       | 1.45 |
| 2.07                           | 0.34 |                          |   |                       | 1.31 |
| 3.45                           | 0.38 |                          |   |                       | 1.15 |
| 5.17                           | 0.42 |                          |   |                       | 1.04 |
| 6.89                           | 0.44 |                          |   |                       | 1.00 |

**Static equivalent radial load**

$$P_{0r} = 0.6F_r + 0.5F_a$$

When  $P_{0r} < F_r$  use  $P_{0r} = F_r$ .

|    | Boundary dimensions |     |     |               | Basic load rating |           | Fatigue load limit kN | Factor $f_0$ | Allowable speed $\text{min}^{-1}$       |                         |        |        | Bearing number |  |     |     |     |
|----|---------------------|-----|-----|---------------|-------------------|-----------|-----------------------|--------------|---|-------------------------|--------|--------|----------------|--|-----|-----|-----|
|    | mm                  | mm  | mm  | $r_{Ns}$ Min. | dynamic kN        | static kN |                       |              | Grease Open type ZZ, LLB, LLF Z, LB, LF | Oil Open type Z, LB, LF | LLH LH | LLU LU | Open type      | Shielded or sealed type <sup>2)</sup> (See drawings) |     |     |     |
| 10 | 15                  | 3   | 0.1 | —             | 0.950             | 0.435     | 0.018                 | 15.7         | 10 000                                  | 12 000                  | —      | —      | 6700           | —  | —   | —   | —   |
|    | 19                  | 5   | 0.3 | —             | 2.03              | 0.925     | 0.072                 | 14.8         | 32 000                                  | 38 000                  | —      | 24 000 | 6800           | ZZ   | LLB | —   | LLU |
|    | 22                  | 6   | 0.3 | 0.3           | 2.99              | 1.27      | 0.099                 | 14.0         | 30 000                                  | 36 000                  | 25 000 | 21 000 | 6900           | ZZ   | LLB | LLH | LLU |
|    | 26                  | 8   | 0.3 | —             | 5.05              | 1.96      | 0.138                 | 12.4         | 29 000                                  | 34 000                  | 25 000 | 21 000 | 6000           | ZZ   | LLB | LLH | LLU |
|    | 30                  | 9   | 0.6 | 0.5           | 5.65              | 2.39      | 0.182                 | 13.2         | 25 000                                  | 30 000                  | 21 000 | 18 000 | 6200           | ZZ   | LLB | LLH | LLU |
|    | 35                  | 11  | 0.6 | 0.5           | 9.10              | 3.50      | 0.273                 | 11.4         | 23 000                                  | 27 000                  | 20 000 | 16 000 | 6300           | ZZ   | LLB | LLH | LLU |
| 12 | 18                  | 4   | 0.2 | —             | 1.03              | 0.530     | 0.021                 | 16.2         | 8 300                                   | 9 500                   | —      | —      | 6701           | —  | LLF | —   | —   |
|    | 21                  | 5   | 0.3 | —             | 2.12              | 1.04      | 0.080                 | 15.3         | 29 000                                  | 35 000                  | —      | 20 000 | 6801           | ZZ   | LLB | —   | LLU |
|    | 24                  | 6   | 0.3 | 0.3           | 3.20              | 1.46      | 0.115                 | 14.5         | 27 000                                  | 32 000                  | 22 000 | 19 000 | 6901           | ZZ   | LLB | LLH | LLU |
|    | 28                  | 7   | 0.3 | —             | 5.65              | 2.39      | 0.187                 | 13.2         | 26 000                                  | 30 000                  | —      | —      | 16001JRX       | —  | —   | —   | —   |
|    | 28                  | 8   | 0.3 | —             | 5.65              | 2.39      | 0.182                 | 13.2         | 26 000                                  | 30 000                  | 21 000 | 18 000 | 6001JRX        | ZZ   | LLB | LLH | LLU |
|    | 32                  | 10  | 0.6 | 0.5           | 6.75              | 2.75      | 0.214                 | 12.7         | 22 000                                  | 26 000                  | 20 000 | 16 000 | 6201           | ZZ   | LLB | LLH | LLU |
| 15 | 37                  | 12  | 1   | 0.5           | 10.8              | 4.20      | 0.325                 | 11.1         | 20 000                                  | 24 000                  | 19 000 | 15 000 | 6301           | ZZ   | LLB | LLH | LLU |
|    | 21                  | 4   | 0.2 | —             | 1.04              | 0.585     | 0.024                 | 16.5         | 6 600                                   | 7 600                   | —      | —      | 6702           | —  | LLF | —   | —   |
|    | 24                  | 5   | 0.3 | —             | 2.30              | 1.26      | 0.091                 | 15.8         | 26 000                                  | 31 000                  | —      | 17 000 | 6802           | ZZ   | LLB | —   | LLU |
|    | 28                  | 7   | 0.3 | 0.3           | 4.05              | 2.00      | 0.157                 | 14.8         | 24 000                                  | 28 000                  | —      | 16 000 | 6902           | ZZ   | LLB | —   | LLU |
|    | 32                  | 8   | 0.3 | —             | 6.20              | 2.84      | 0.222                 | 13.9         | 22 000                                  | 26 000                  | —      | —      | 16002          | —  | —   | —   | —   |
|    | 32                  | 9   | 0.3 | 0.3           | 6.20              | 2.84      | 0.199                 | 13.9         | 22 000                                  | 26 000                  | 18 000 | 15 000 | 6002           | ZZ   | LLB | LLH | LLU |
| 17 | 35                  | 11  | 0.6 | 0.5           | 8.60              | 3.60      | 0.279                 | 12.7         | 19 000                                  | 23 000                  | 18 000 | 15 000 | 6202           | ZZ   | LLB | LLH | LLU |
|    | 42                  | 13  | 1   | 0.5           | 12.7              | 5.45      | 0.425                 | 12.3         | 17 000                                  | 21 000                  | 15 000 | 12 000 | 6302           | ZZ   | LLB | LLH | LLU |
|    | 23                  | 4   | 0.2 | —             | 1.11              | 0.660     | 0.027                 | 16.3         | 5 000                                   | 6 700                   | —      | —      | 6703           | —  | LLF | —   | —   |
|    | 26                  | 5   | 0.3 | —             | 2.47              | 1.46      | 0.102                 | 16.1         | 24 000                                  | 28 000                  | —      | 15 000 | 6803           | ZZ   | LLB | —   | LLU |
|    | 30                  | 7   | 0.3 | 0.3           | 5.15              | 2.58      | 0.202                 | 14.7         | 22 000                                  | 26 000                  | —      | 14 000 | 6903JRX        | ZZ   | LLB | —   | LLU |
|    | 35                  | 8   | 0.3 | —             | 7.55              | 3.35      | 0.263                 | 13.6         | 20 000                                  | 24 000                  | —      | —      | 16003          | —  | —   | —   | —   |
| 20 | 35                  | 10  | 0.3 | 0.3           | 7.55              | 3.35      | 0.243                 | 13.6         | 20 000                                  | 24 000                  | 16 000 | 14 000 | 6003           | ZZ   | LLB | LLH | LLU |
|    | 40                  | 12  | 0.6 | 0.5           | 10.6              | 4.60      | 0.355                 | 12.8         | 18 000                                  | 21 000                  | 15 000 | 12 000 | 6203           | ZZ   | LLB | LLH | LLU |
|    | 47                  | 14  | 1   | 0.5           | 15.0              | 6.55      | 0.510                 | 12.2         | 16 000                                  | 19 000                  | 14 000 | 11 000 | 6303           | ZZ   | LLB | LLH | LLU |
|    | 62                  | 17  | 1.1 | —             | 25.2              | 10.8      | 0.840                 | 11.1         | 14 000                                  | 16 000                  | —      | —      | 6403           | ZZ   | —   | —   | —   |
|    | 27                  | 4   | 0.2 | —             | 1.15              | 0.730     | 0.031                 | 16.1         | 5 000                                   | 5 700                   | —      | —      | 6704           | —  | LLF | —   | —   |
|    | 32                  | 7   | 0.3 | 0.3           | 4.45              | 2.47      | 0.185                 | 15.5         | 21 000                                  | 25 000                  | —      | 13 000 | 6804JR         | ZZ   | LLB | —   | LLU |
| 37 | 9                   | 0.3 | 0.3 | 7.05          | 3.70              | 0.288     | 14.7                  | 19 000       | 23 000                                  | —                       | 12 000 | 6904   | ZZ             | LLB  | —   | LLU |     |
| 42 | 8                   | 0.3 | —   | 8.75          | 4.50              | 0.350     | 14.5                  | 18 000       | 21 000                                  | —                       | —      | 16004  | —              | —  | —   | —   |     |
| 42 | 12                  | 0.6 | 0.5 | 10.4          | 5.05              | 0.355     | 13.9                  | 18 000       | 21 000                                  | 13 000                  | 11 000 | 6004   | ZZ             | LLB  | LLH | LLU |     |
| 47 | 14                  | 1   | 0.5 | 14.2          | 6.65              | 0.505     | 13.2                  | 16 000       | 18 000                                  | 12 000                  | 10 000 | 6204   | ZZ             | LLB  | LLH | LLU |     |
| 52 | 15                  | 1.1 | 0.5 | 17.6          | 7.90              | 0.615     | 12.4                  | 14 000       | 17 000                                  | 12 000                  | 10 000 | 6304   | ZZ             | LLB  | LLH | LLU |     |



| Shaft dia.<br>mm | Unit number <sup>1)2)</sup> | Dimensions<br>mm |     |     |    |    |                |                |                |                |      |      | Fixing bolt | Number  | Bearing                   |                         |                              |
|------------------|-----------------------------|------------------|-----|-----|----|----|----------------|----------------|----------------|----------------|------|------|-------------|---------|---------------------------|-------------------------|------------------------------|
|                  |                             | H                | L   | J   | A  | N  | N <sub>1</sub> | H <sub>1</sub> | H <sub>2</sub> | L <sub>1</sub> | B    | S    |             |         | Basic load rating         | static                  | Fatigue                      |
|                  |                             |                  |     |     |    |    |                |                |                |                |      |      |             |         | dynamic<br>C <sub>r</sub> | load<br>C <sub>0r</sub> | load limit<br>C <sub>u</sub> |
| 12               | UCP201                      | 30.2             | 127 | 95  | 38 | 13 | 16             | 14             | 62             | 42             | 31   | 12.7 | M10         | UC201D1 | 14.2                      | 6.65                    | 0.505                        |
| 15               | UCP202                      | 30.2             | 127 | 95  | 38 | 13 | 16             | 14             | 62             | 42             | 31   | 12.7 | M10         | UC202D1 | 14.2                      | 6.65                    | 0.505                        |
| 17               | UCP203                      | 30.2             | 127 | 95  | 38 | 13 | 16             | 14             | 62             | 42             | 31   | 12.7 | M10         | UC203D1 | 14.2                      | 6.65                    | 0.505                        |
| 20               | UCP204                      | 33.3             | 127 | 95  | 38 | 13 | 16             | 14             | 65             | 42             | 31   | 12.7 | M10         | UC204D1 | 14.2                      | 6.65                    | 0.505                        |
| 25               | UCP205                      | 36.5             | 140 | 105 | 38 | 13 | 16             | 15             | 71             | 42             | 34.1 | 14.3 | M10         | UC205D1 | 15.5                      | 7.85                    | 0.55                         |
|                  | UCPX05                      | 44.4             | 159 | 119 | 51 | 17 | 20             | 18             | 85             | 50             | 38.1 | 15.9 | M14         | UCX05D1 | 21.6                      | 11.3                    | 0.795                        |
|                  | UCP305                      | 45               | 175 | 132 | 45 | 17 | 20             | 15             | 85             | 54             | 38   | 15   | M14         | UC305D1 | 23.5                      | 10.9                    | 0.855                        |
| 30               | UCP206                      | 42.9             | 165 | 121 | 48 | 17 | 20             | 17             | 83             | 54             | 38.1 | 15.9 | M14         | UC206D1 | 21.6                      | 11.3                    | 0.795                        |
|                  | UCPX06                      | 47.6             | 175 | 127 | 57 | 17 | 20             | 20             | 93             | 54             | 42.9 | 17.5 | M14         | UCX06D1 | 28.4                      | 15.3                    | 1.09                         |
|                  | UCP306                      | 50               | 180 | 140 | 50 | 17 | 20             | 18             | 95             | 54             | 43   | 17   | M14         | UC306D1 | 29.5                      | 15.0                    | 1.14                         |
| 35               | UCP207                      | 47.6             | 167 | 127 | 48 | 17 | 20             | 18             | 93             | 54             | 42.9 | 17.5 | M14         | UC207D1 | 28.4                      | 15.3                    | 1.09                         |
|                  | UCPX07                      | 54               | 203 | 144 | 57 | 17 | 20             | 21             | 105            | 60             | 49.2 | 19   | M14         | UCX07D1 | 32.5                      | 17.8                    | 1.24                         |
|                  | UCP307                      | 56               | 210 | 160 | 56 | 17 | 25             | 20             | 106            | 60             | 48   | 19   | M14         | UC307D1 | 37.0                      | 19.1                    | 1.47                         |
| 40               | UCP208                      | 49.2             | 184 | 137 | 54 | 17 | 20             | 18             | 98             | 52             | 49.2 | 19   | M14         | UC208D1 | 32.5                      | 17.8                    | 1.24                         |
|                  | UCPX08                      | 58.7             | 222 | 156 | 67 | 20 | 23             | 26             | 111            | 65             | 49.2 | 19   | M16         | UCX08D1 | 36.0                      | 20.4                    | 1.60                         |
|                  | UCP308                      | 60               | 220 | 170 | 60 | 17 | 27             | 22             | 116            | 60             | 52   | 19   | M14         | UC308D1 | 45.0                      | 24.0                    | 1.83                         |
| 45               | UCP209                      | 54               | 190 | 146 | 54 | 17 | 20             | 20             | 106            | 60             | 49.2 | 19   | M14         | UC209D1 | 36.0                      | 20.4                    | 1.60                         |
|                  | UCPX09                      | 58.7             | 222 | 156 | 67 | 20 | 23             | 26             | 116            | 65             | 51.6 | 19   | M16         | UCX09D1 | 39.0                      | 23.2                    | 1.82                         |
|                  | UCP309                      | 67               | 245 | 190 | 67 | 20 | 30             | 24             | 129            | 65             | 57   | 22   | M16         | UC309D1 | 58.5                      | 32.0                    | 2.50                         |
| 50               | UCP210                      | 57.2             | 206 | 159 | 60 | 20 | 23             | 21             | 114            | 65             | 51.6 | 19   | M16         | UC210D1 | 39.0                      | 23.2                    | 1.82                         |
|                  | UCPX10                      | 63.5             | 241 | 171 | 73 | 20 | 23             | 27             | 126            | 70             | 55.6 | 22.2 | M16         | UCX10D1 | 48.0                      | 29.2                    | 2.29                         |
|                  | UCP310                      | 75               | 275 | 212 | 75 | 20 | 35             | 27             | 143            | 75             | 61   | 22   | M16         | UC310D1 | 68.5                      | 38.5                    | 2.99                         |

**LAMPIRAN 8**  
**SUAIAN**





## Nilai penyimpangan poros untuk tujuan umum

**Tabel 13.7 (a) Nilai penyimpangan poros untuk tujuan umum.**

Satuan  $\mu\text{m}$

| Tingkat diameter (mm) |     | b    |      | c    |      | d    |      | e    |      |      | f    |     |     | g   |     |     | h   |     |     |      |     |     |  |  |  |
|-----------------------|-----|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|--|--|--|
|                       |     | >    | to   | b 9  | c 9  | d 8  | d 9  | e 7  | e 8  | e 9  | f 6  | f 7 | f 8 | g 4 | g 5 | g 6 | h 4 | h 5 | h 6 | h 7  | h 8 | h 9 |  |  |  |
| —                     | 3   | -140 | -60  | -20  |      | -14  |      |      | -6   |      |      | -2  |     |     | 0   |     |     |     |     |      |     |     |  |  |  |
|                       |     | -165 | -85  | -34  | -45  | -24  | -28  | -39  | -12  | -16  | -20  | -5  | -6  | -8  | -3  | -4  | -6  | -10 | -14 | -25  |     |     |  |  |  |
| 3                     | 6   | -140 | -70  | -30  |      | -20  |      |      | -10  |      |      | -4  |     |     | 0   |     |     |     |     |      |     |     |  |  |  |
|                       |     | -170 | -100 | -48  | -60  | -32  | -38  | -50  | -18  | -22  | -28  | -8  | -9  | -12 | -4  | -5  | -8  | -12 | -18 | -30  |     |     |  |  |  |
| 6                     | 10  | -150 | -80  | -40  |      | -25  |      |      | -13  |      |      | -5  |     |     | 0   |     |     |     |     |      |     |     |  |  |  |
|                       |     | -186 | -116 | -62  | -76  | -40  | -47  | -61  | -22  | -28  | -35  | -9  | -11 | -14 | -4  | -6  | -9  | -15 | -22 | -36  |     |     |  |  |  |
| 10                    | 14  | -150 | -95  | -50  |      | -32  |      |      | -16  |      |      | -6  |     |     | 0   |     |     |     |     |      |     |     |  |  |  |
| 14                    | 18  | -193 | -138 | -77  | -93  | -50  | -59  | -75  | -27  | -34  | -43  | -11 | -14 | -17 | -5  | -8  | -11 | -18 | -27 | -43  |     |     |  |  |  |
| 18                    | 24  | -160 | -110 | -65  |      | -40  |      |      | -20  |      |      | -7  |     |     | 0   |     |     |     |     |      |     |     |  |  |  |
| 24                    | 30  | -212 | -162 | -98  | -117 | -61  | -73  | -92  | -33  | -41  | -53  | -13 | -16 | -20 | -6  | -9  | -13 | -21 | -33 | -52  |     |     |  |  |  |
| 30                    | 40  | -170 | -120 | -80  |      | -50  |      |      | -25  |      |      | -9  |     |     | 0   |     |     |     |     |      |     |     |  |  |  |
| 40                    | 50  | -180 | -130 | -119 | -142 | -75  | -89  | -112 | -41  | -50  | -64  | -16 | -20 | -25 | -7  | -11 | -16 | -25 | -39 | -62  |     |     |  |  |  |
| 50                    | 65  | -190 | -140 | -100 |      | -60  |      |      | -30  |      |      | -10 |     |     | 0   |     |     |     |     |      |     |     |  |  |  |
| 65                    | 80  | -200 | -150 | -146 | -174 | -90  | -106 | -134 | -49  | -60  | -76  | -18 | -23 | -29 | -8  | -13 | -19 | -30 | -46 | -74  |     |     |  |  |  |
| 80                    | 100 | -220 | -170 | -120 |      | -72  |      |      | -36  |      |      | -12 |     |     | 0   |     |     |     |     |      |     |     |  |  |  |
| 100                   | 120 | -240 | -180 | -174 | -207 | -107 | -126 | -159 | -58  | -71  | -90  | -22 | -27 | -34 | -10 | -15 | -22 | -35 | -54 | -87  |     |     |  |  |  |
| 120                   | 140 | -260 | -200 | -145 |      | -85  |      |      | -43  |      |      | -14 |     |     | 0   |     |     |     |     |      |     |     |  |  |  |
| 140                   | 160 | -280 | -210 | -208 | -245 | -125 | -148 | -185 | -68  | -83  | -106 | -26 | -32 | -39 | -12 | -18 | -25 | -40 | -63 | -100 |     |     |  |  |  |
| 160                   | 180 | -310 | -230 | -170 |      | -100 |      |      | -50  |      |      | -15 |     |     | 0   |     |     |     |     |      |     |     |  |  |  |
| 180                   | 200 | -340 | -240 | -242 | -285 | -146 | -172 | -215 | -79  | -96  | -122 | -29 | -35 | -44 | -14 | -20 | -29 | -46 | -72 | -115 |     |     |  |  |  |
| 200                   | 225 | -380 | -260 | -190 |      | -110 |      |      | -56  |      |      | -17 |     |     | 0   |     |     |     |     |      |     |     |  |  |  |
| 225                   | 250 | -420 | -280 | -271 | -320 | -162 | -191 | -240 | -88  | -108 | -137 | -33 | -40 | -49 | -16 | -23 | -32 | -52 | -81 | -130 |     |     |  |  |  |
| 250                   | 280 | -480 | -300 | -210 |      | -125 |      |      | -62  |      |      | -18 |     |     | 0   |     |     |     |     |      |     |     |  |  |  |
| 280                   | 315 | -540 | -330 | -299 | -350 | -182 | -214 | -265 | -98  | -119 | -151 | -36 | -43 | -54 | -18 | -25 | -36 | -57 | -89 | -140 |     |     |  |  |  |
| 315                   | 355 | -600 | -360 | -230 |      | -135 |      |      | -68  |      |      | -20 |     |     | 0   |     |     |     |     |      |     |     |  |  |  |
| 355                   | 400 | -680 | -400 | -327 | -385 | -198 | -232 | -290 | -108 | -131 | -165 | -40 | -47 | -60 | -20 | -27 | -40 | -63 | -97 | -155 |     |     |  |  |  |
| 400                   | 450 | -760 | -440 | -198 |      | -135 |      |      | -68  |      |      | -20 |     |     | 0   |     |     |     |     |      |     |     |  |  |  |
| 450                   | 500 | -840 | -480 | -327 | -385 | -198 | -232 | -290 | -108 | -131 | -165 | -40 | -47 | -60 | -20 | -27 | -40 | -63 | -97 | -155 |     |     |  |  |  |

*Catatan:* Nilai atas menunjukkan penyimpangan atas dan nilai bawah penyimpangan bawah



### Nilai penyimpangan poros untuk tujuan umum

Satuan  $\mu\text{m}$

| Tingkat diameter (mm) |     | js                                      |           |           |           | k           |          |     | m           |           |     | n          | p          | r           | s          | t           | u          | x            |  |            |  |    |             |  |    |         |  |          |         |            |          |             |         |              |     |              |         |              |  |
|-----------------------|-----|---|-----------|-----------|-----------|-------------|----------|-----|-------------|-----------|-----|------------|------------|-------------|------------|-------------|------------|--------------|--|------------|--|----|-------------|--|----|---------|--|----------|---------|------------|----------|-------------|---------|--------------|-----|--------------|---------|--------------|--|
|                       |     | js 4                                    | js 5      | js 6      | js 7      | k 4         | k 5      | k 6 | m 4         | m 5       | m 6 | n 6        | p 6        | r 6         | s 6        | t 6         | u 6        | x 6          |  |            |  |    |             |  |    |         |  |          |         |            |          |             |         |              |     |              |         |              |  |
| >                     | to  |   |           |           |           |             |          |     |             |           |     |            |            |             |            |             |            |              |  |            |  |    |             |  |    |         |  |          |         |            |          |             |         |              |     |              |         |              |  |
| —                     | 3   | $\pm 1,5$                               | $\pm 2$   | $\pm 3$   | $\pm 5$   | +3          | +4<br>0  | +6  | +5          | +6<br>+2  | +8  | +10<br>+4  | +12<br>+6  | +16<br>+10  | +20<br>+14 | —           | +24<br>+18 | +26<br>+20   |  |            |  |    |             |  |    |         |  |          |         |            |          |             |         |              |     |              |         |              |  |
| 3                     | 6   | $\pm 2$                                 | $\pm 2,5$ | $\pm 4$   | $\pm 6$   | +5          | +6<br>+1 | +9  | +8          | +9<br>+4  | +12 | +16<br>+8  | +20<br>+12 | +23<br>+15  | +27<br>+19 | —           | +31<br>+23 | +36<br>+28   |  |            |  |    |             |  |    |         |  |          |         |            |          |             |         |              |     |              |         |              |  |
| 6                     | 10  | $\pm 2$                                 | $\pm 3$   | $\pm 4,5$ | $\pm 7,5$ | +5          | +7<br>+1 | +10 | +10         | +12<br>+6 | +15 | +19<br>+10 | +24<br>+15 | +28<br>+19  | +32<br>+23 | —           | +37<br>+28 | +43<br>+34   |  |            |  |    |             |  |    |         |  |          |         |            |          |             |         |              |     |              |         |              |  |
| 10                    | 14  | $\pm 2,5$ $\pm 4$ $\pm 5,5$ $\pm 9$     |           |           |           | +6 +9 +12   |          |     | +12 +15 +18 |           |     | +23 +29    |            | +34 +39     |            | —           |            | +44          |  | +51<br>+40 |  |    |             |  |    |         |  |          |         |            |          |             |         |              |     |              |         |              |  |
| 14                    | 18  |   |           |           |           |             |          |     |             |           |     |            |            |             |            |             |            |              |  | +8 +11 +15 |  |    | +14 +17 +21 |  |    | +28 +35 |  | +41 +48  |         | —          |          | +54<br>+41  |         | +67<br>+54   |     |              |         |              |  |
| 18                    | 24  | $\pm 3$ $\pm 4,5$ $\pm 6,5$ $\pm 10,5$  |           |           |           | +8 +11 +15  |          |     | +14 +17 +21 |           |     | +28 +35    |            | +41 +48     |            | —           |            | +54<br>+41   |  |            |  |    |             |  |    |         |  |          |         |            |          |             |         |              |     |              |         |              |  |
| 24                    | 30  |   |           |           |           |             |          |     |             |           |     |            |            |             |            |             |            |              |  | +9 +13 +18 |  |    | +16 +20 +25 |  |    | +33 +42 |  | +50 +59  |         | +64<br>+48 |          | +76<br>+60  |         | —            |     |              |         |              |  |
| 30                    | 40  | $\pm 3,5$ $\pm 5,5$ $\pm 8$ $\pm 12,5$  |           |           |           | +9 +13 +18  |          |     | +16 +20 +25 |           |     | +33 +42    |            | +50 +59     |            | +64<br>+48  |            | +76<br>+60   |  |            |  |    |             |  |    |         |  |          |         |            |          |             |         |              |     |              |         |              |  |
| 40                    | 50  |   |           |           |           |             |          |     |             |           |     |            |            |             |            |             |            |              |  | +2         |  |    | +9          |  |    | +17 +26 |  | +34 +43  |         | +70<br>+54 |          | +86<br>+70  |         | —            |     |              |         |              |  |
| 50                    | 65  | $\pm 4$ $\pm 6,5$ $\pm 9,5$ $\pm 15$    |           |           |           | +10 +15 +21 |          |     | +19 +24 +30 |           |     | +39 +51    |            | +60<br>+41  |            | +72<br>+53  |            | +85<br>+66   |  |            |  |    |             |  |    |         |  |          |         |            |          |             |         | +106<br>+87  |     |              |         |              |  |
| 65                    | 80  |   |           |           |           |             |          |     |             |           |     |            |            |             |            |             |            |              |  | +2         |  |    | +11         |  |    | +20 +32 |  | +32 +43  |         | +62<br>+43 |          | +78<br>+59  |         | +94<br>+75   |     | +121<br>+102 |         |              |  |
| 80                    | 100 | $\pm 5$ $\pm 7,5$ $\pm 11$ $\pm 17,5$   |           |           |           | +13 +18 +25 |          |     | +23 +28 +35 |           |     | +45 +59    |            | +73<br>+51  |            | +93<br>+71  |            | +113<br>+91  |  |            |  |    |             |  |    |         |  |          |         |            |          |             |         |              |     |              |         | +146<br>+124 |  |
| 100                   | 120 |   |           |           |           |             |          |     |             |           |     |            |            |             |            |             |            |              |  | +3         |  |    | +13         |  |    | +23 +37 |  | +37 +54  |         | +73<br>+54 |          | +101<br>+75 |         | +126<br>+104 |     | +166<br>+144 |         |              |  |
| 120                   | 140 | $\pm 6$ $\pm 9$ $\pm 12,5$ $\pm 20$     |           |           |           | +15 +21 +28 |          |     | +27 +33 +40 |           |     | +52 +68    |            | +73<br>+51  |            | +93<br>+71  |            | +113<br>+91  |  |            |  |    |             |  |    |         |  |          |         |            |          |             |         |              |     |              |         | +146<br>+124 |  |
| 140                   | 160 |   |           |           |           |             |          |     |             |           |     |            |            |             |            |             |            |              |  | +3         |  |    | +15         |  |    | +27 +37 |  | +43 +54  |         | +68<br>+43 |          | +90<br>+65  |         | +125<br>+100 |     | +159<br>+134 |         |              |  |
| 160                   | 180 |   |           |           |           |             |          |     |             |           |     |            |            |             |            |             |            |              |  |            |  |    |             |  |    |         |  |          |         |            |          |             |         |              |     |              |         |              |  |
| 180                   | 200 | $\pm 7$ $\pm 10$ $\pm 14,5$ $\pm 23$    |           |           |           | +18 +24 +33 |          |     | +31 +37 +46 |           |     | +60 +79    |            | +79<br>+50  |            | +106<br>+77 |            | +151<br>+122 |  | —          |  |    |             |  |    |         |  |          |         |            |          |             |         |              |     |              |         |              |  |
| 200                   | 225 |   |           |           |           |             |          |     |             |           |     |            |            |             |            |             |            |              |  |            |  | +4 |             |  | +4 |         |  | +31 +37  |         | +46 +60    |          | +79<br>+50  |         | +109<br>+80  |     | +159<br>+130 |         | —            |  |
| 225                   | 250 |   |           |           |           |             |          |     |             |           |     |            |            |             |            |             |            |              |  |            |  |    |             |  |    |         |  |          |         |            |          |             |         |              |     |              |         |              |  |
| 250                   | 280 | $\pm 8$ , $\pm 11,5$ $\pm 16$ $\pm 26$  |           |           |           | +4          |          |     | +20         |           |     | +34 +56    |            | +130<br>+98 |            | —           |            | —            |  |            |  |    |             |  |    |         |  |          |         |            |          |             |         |              |     |              |         |              |  |
| 280                   | 315 |   |           |           |           |             |          |     |             |           |     |            |            |             |            |             |            |              |  | +9         |  |    | +12,5 +18   |  |    | +28,5   |  |          | +22 +29 |            | +40      |             | +39 +46 |              | +57 |              | +73 +98 |              |  |
| 315                   | 355 | $\pm 9$ $\pm 12,5$ $\pm 18$ $\pm 28,5$  |           |           |           | +22 +29 +40 |          |     | +39 +46 +57 |           |     | +73 +98    |            | +98 +108    |            | +144 +108   |            | —            |  |            |  |    |             |  |    |         |  |          |         |            |          |             |         |              |     |              |         |              |  |
| 355                   | 400 |   |           |           |           |             |          |     |             |           |     |            |            |             |            |             |            |              |  | +4         |  |    | +4          |  |    | +21     |  |          | +37 +62 |            | +62 +150 |             | +114    |              | —   |              |         |              |  |
| 400                   | 450 | $\pm 10$ $\pm 13,5$ $\pm 20$ $\pm 31,5$ |           |           |           | +25 +32 +45 |          |     | +43 +50 +63 |           |     | +80 +108   |            | +108 +126   |            | +166 +126   |            | —            |  |            |  |    |             |  |    |         |  |          |         |            |          |             |         |              |     |              |         |              |  |
| 450                   | 500 |   |           |           |           |             |          |     |             |           |     |            |            |             |            |             |            |              |  | +5         |  |    | +23         |  |    | +40 +68 |  | +68 +172 |         | +132       |          | +172 +132   |         | —            |     |              |         |              |  |

*Catatan:* Nilai atas menunjukkan penyimpangan atas dan nilai bawah penyimpangan bawah.

## Nilai penyimpangan lubang untuk tujuan umum

Satuan  $\mu\text{m}$

| Tingkat diameter (mm) | to  | B             |              | C    |      |              | D    |      |              | E    |      |             | F    |     |            | G   |     | H        |     |              |      |  |  |
|-----------------------|-----|---------------|--------------|------|------|--------------|------|------|--------------|------|------|-------------|------|-----|------------|-----|-----|----------|-----|--------------|------|--|--|
|                       |     | B 10          | C 9          | C 10 | D 8  | D 9          | D 10 | E 7  | E 8          | E 9  | F 6  | F 7         | F 8  | G 6 | G 7        | H 5 | H 6 | H 7      | H 8 | H 9          | H 10 |  |  |
| —                     | 3   | +180<br>+140  | +85<br>+60   | +100 | +34  | +45<br>+20   | +60  | +24  | +28<br>+14   | +39  | +12  | +16<br>+6   | +20  | +8  | +12<br>+10 | +4  | +6  | +10<br>0 | +14 | +25<br>+40   |      |  |  |
| 3                     | 6   | +185<br>+140  | +100<br>+70  | +118 | +48  | +60<br>+30   | +78  | +32  | +38<br>+20   | +50  | +18  | +22<br>+10  | +28  | +12 | +16<br>+4  | +5  | +8  | +12<br>0 | +18 | +30<br>+48   |      |  |  |
| 6                     | 10  | +203<br>+150  | +116<br>+80  | +138 | +62  | +76<br>+40   | +98  | +40  | +47<br>+25   | +61  | +22  | +28<br>+13  | +35  | +14 | +20<br>+5  | +6  | +9  | +15<br>0 | +22 | +36<br>+58   |      |  |  |
| 10                    | 14  | +220<br>+150  | +138<br>+95  | +165 | +77  | +93<br>+50   | +120 | +50  | +59<br>+32   | +75  | +27  | +34<br>+16  | +43  | +17 | +24<br>+6  | +8  | +11 | +18<br>0 | +27 | +43<br>+70   |      |  |  |
| 14                    | 18  |               |              |      |      |              |      |      |              |      |      |             |      |     |            |     |     |          |     |              |      |  |  |
| 18                    | 24  | +244<br>+160  | +162<br>+110 | +194 | +98  | +117<br>+65  | +149 | +61  | +73<br>+40   | +92  | +33  | +41<br>+20  | +53  | +20 | +28<br>+7  | +9  | +13 | +21<br>0 | +33 | +52<br>+84   |      |  |  |
| 24                    | 30  |               |              |      |      |              |      |      |              |      |      |             |      |     |            |     |     |          |     |              |      |  |  |
| 30                    | 40  | +270<br>+170  | +182<br>+120 | +220 | +119 | +142<br>+80  | +180 | +75  | +89<br>+50   | +112 | +41  | +50<br>+25  | +64  | +25 | +34<br>+9  | +11 | +16 | +25<br>0 | +39 | +62<br>+100  |      |  |  |
| 40                    | 50  | +280<br>+180  | +192<br>+130 | +230 |      |              |      |      |              |      |      |             |      |     |            |     |     |          |     |              |      |  |  |
| 50                    | 65  | +310<br>+190  | +214<br>+140 | +260 | +146 | +174<br>+100 | +220 | +90  | +106<br>+60  | +134 | +49  | +60<br>+30  | +76  | +29 | +40<br>+10 | +13 | +19 | +30<br>0 | +46 | +74<br>+120  |      |  |  |
| 65                    | 80  | +320<br>+200  | +224<br>+150 | +270 |      |              |      |      |              |      |      |             |      |     |            |     |     |          |     |              |      |  |  |
| 80                    | 100 | +360<br>+220  | +257<br>+170 | +310 | +174 | +207<br>+120 | +260 | +107 | +126<br>+72  | +159 | +58  | +71<br>+36  | +90  | +34 | +47<br>+12 | +15 | +22 | +35<br>0 | +54 | +87<br>+140  |      |  |  |
| 100                   | 120 | +380<br>+240  | +267<br>+180 | +320 |      |              |      |      |              |      |      |             |      |     |            |     |     |          |     |              |      |  |  |
| 120                   | 140 | +420<br>+260  | +300<br>+200 | +360 |      |              |      |      |              |      |      |             |      |     |            |     |     |          |     |              |      |  |  |
| 140                   | 160 | +440<br>+280  | +310<br>+210 | +370 | +208 | +245<br>+145 | +305 | +125 | +148<br>+85  | +185 | +68  | +83<br>+43  | +106 | +39 | +54<br>+14 | +18 | +25 | +40<br>0 | +63 | +100<br>+160 |      |  |  |
| 160                   | 180 | +470<br>+310  | +330<br>+230 | +390 |      |              |      |      |              |      |      |             |      |     |            |     |     |          |     |              |      |  |  |
| 180                   | 200 | +525<br>+340  | +355<br>+240 | +425 |      |              |      |      |              |      |      |             |      |     |            |     |     |          |     |              |      |  |  |
| 200                   | 225 | +565<br>+380  | +375<br>+260 | +445 | +242 | +285<br>+170 | +355 | +146 | +172<br>+100 | +215 | +79  | +96<br>+50  | +122 | +44 | +61<br>+15 | +20 | +29 | +46<br>0 | +72 | +115<br>+185 |      |  |  |
| 225                   | 250 | +605<br>+420  | +395<br>+280 | +465 |      |              |      |      |              |      |      |             |      |     |            |     |     |          |     |              |      |  |  |
| 250                   | 280 | +690<br>+480  | +430<br>+300 | +510 | +271 | +320<br>+190 | +400 | +162 | +191<br>+110 | +240 | +88  | +108<br>+56 | +137 | +49 | +69<br>+17 | +23 | +32 | +52<br>0 | +81 | +130<br>+210 |      |  |  |
| 280                   | 315 | +750<br>+540  | +460<br>+330 | +540 |      |              |      |      |              |      |      |             |      |     |            |     |     |          |     |              |      |  |  |
| 315                   | 355 | +830<br>+600  | +500<br>+360 | +590 | 299  | +350<br>+210 | +440 | +182 | +214<br>+125 | +265 | +98  | +119<br>+62 | +151 | +54 | +75<br>+18 | +25 | +36 | +57<br>0 | +89 | +140<br>+230 |      |  |  |
| 355                   | 400 | +910<br>+680  | +540<br>+400 | +630 |      |              |      |      |              |      |      |             |      |     |            |     |     |          |     |              |      |  |  |
| 400                   | 450 | +1010<br>+760 | +595<br>+440 | +690 | +327 | +385<br>+230 | +480 | +198 | +232<br>+135 | +290 | +108 | +131<br>+68 | +165 | +60 | +83<br>+20 | +27 | +40 | +63<br>0 | +97 | +155<br>+250 |      |  |  |
| 450                   | 500 | +1090<br>+840 | +635<br>+480 | +730 |      |              |      |      |              |      |      |             |      |     |            |     |     |          |     |              |      |  |  |

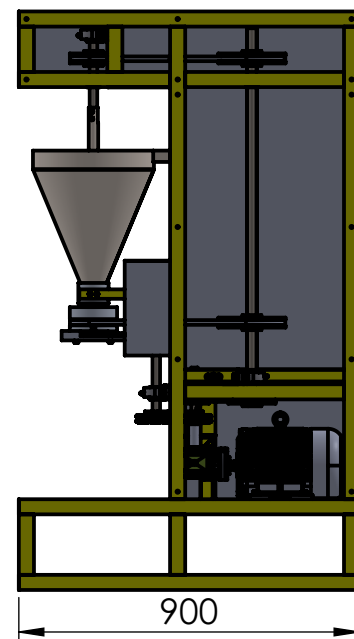
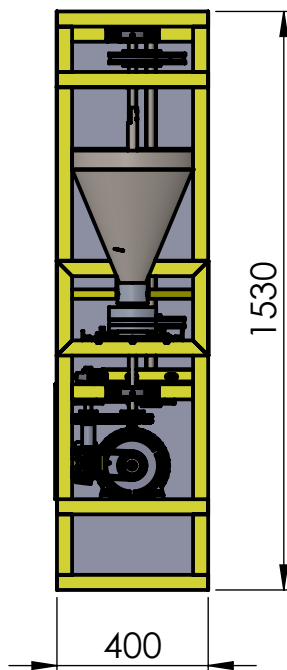
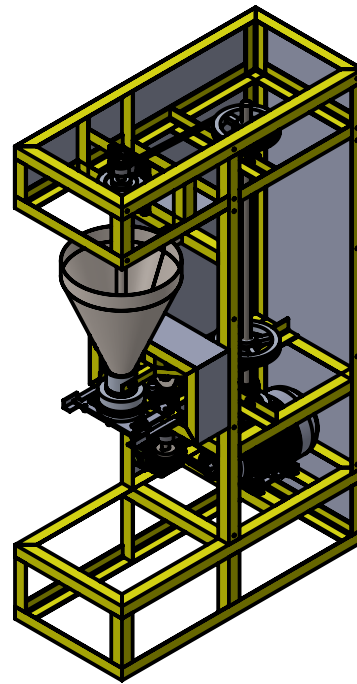
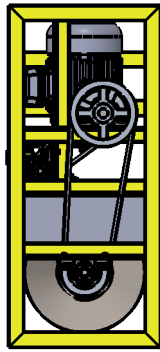
**Catatan:** Nilai atas menunjukkan penyimpangan atas, dan nilai bawah penyimpangan bawah.

### Nilai penyimpangan lubang untuk tujuan umum

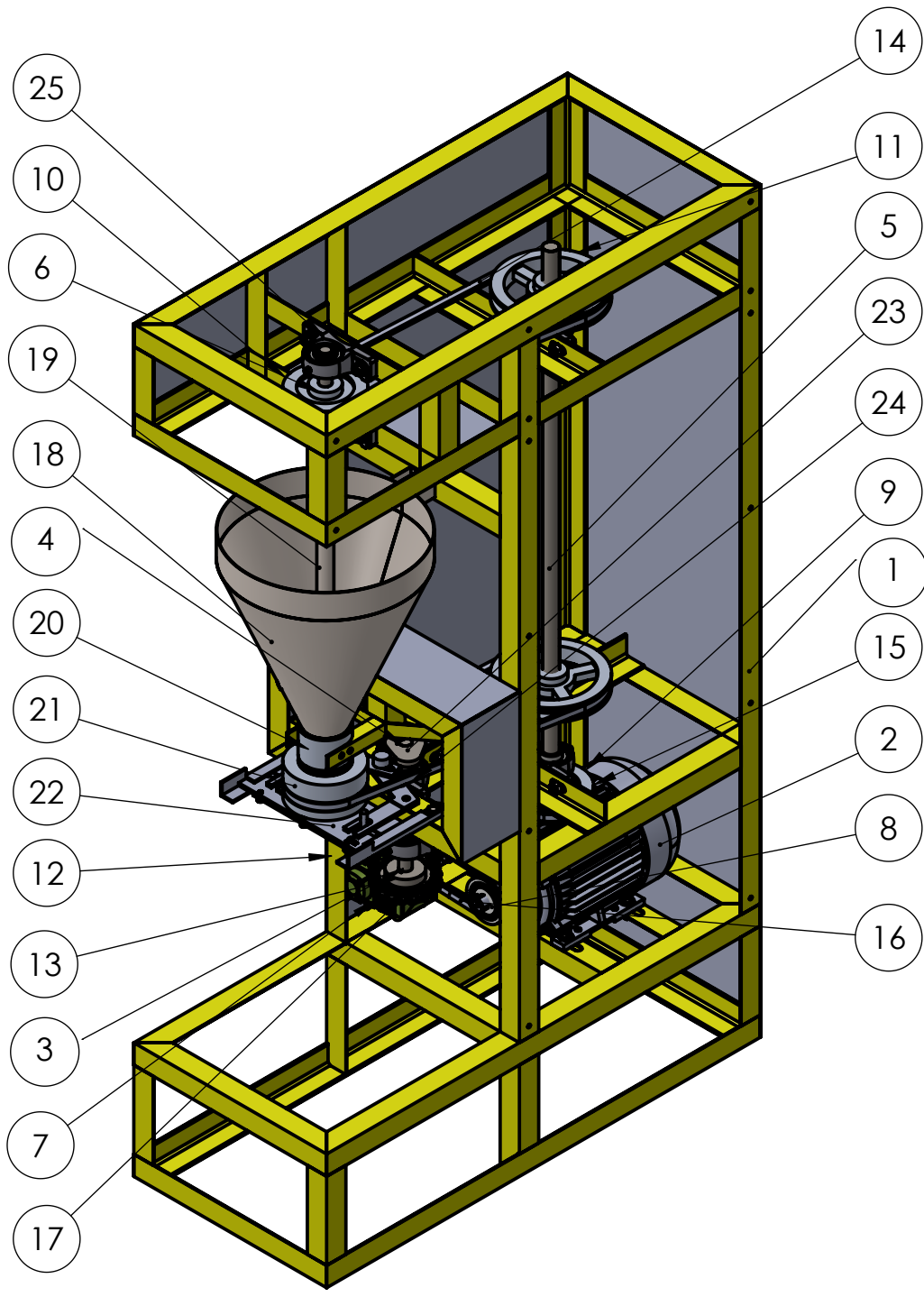
| Tingkat diameter (mm) |     | Satuan $\mu\text{m}$ |            |            |          |          |           |           |           |           |           |           |            |           |            |            |      |            |            |  |
|-----------------------|-----|----------------------|------------|------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|------------|------------|------|------------|------------|--|
|                       |     | Js                   |            |            | K        |          |           | M         |           |           | N         |           | P          |           | R          | S          | T    | U          | X          |  |
| >                     | to  | Js 5                 | Js 6       | Js 7       | K 5      | K 6      | K 7       | M 5       | M 6       | M 7       | N 6       | N 7       | P 6        | P 7       | R 7        | S 7        | T 7  | U 7        | X 7        |  |
| —                     | 3   | $\pm 2$              | $\pm 3$    | $\pm 5$    | 0<br>-4  | 0<br>-6  | 0<br>-10  | -2<br>-6  | -2<br>-8  | -2<br>-12 | -4<br>-10 | -4<br>-14 | -6<br>-12  | -6<br>-16 | -10<br>-20 | -14<br>-24 | —    | -18<br>-28 | -20<br>-30 |  |
| 3                     | 6   | $\pm 2,5$            | $\pm 4$    | $\pm 6$    | 0<br>-5  | +2<br>-6 | +3<br>-9  | -3<br>-8  | -1<br>-9  | 0<br>-12  | -5<br>-13 | -4<br>-16 | -9<br>-17  | -8<br>-20 | -11<br>-23 | -15<br>-27 | —    | -19<br>-31 | -24<br>-36 |  |
| 6                     | 10  | $\pm 3$              | $\pm 4,5$  | $\pm 7,5$  | +1<br>-5 | +2<br>-7 | +5<br>-10 | -4<br>-10 | -3<br>-12 | 0<br>-15  | -7<br>-16 | -4<br>-19 | -12<br>-21 | -9<br>-24 | -13<br>-28 | -17<br>-32 | —    | -22<br>-37 | -28<br>-43 |  |
| 10                    | 14  | $\pm 4$              | $\pm 5,5$  | $\pm 9$    | +2       | +2       | +6        | -4        | -4        | 0         | -9        | -5        | -15        | -11       | -16        | -21        | —    | -26        | -33        |  |
| 14                    | 18  |                      |            |            | -6       | -9       | -12       | -12       | -15       | -18       | -20       | -23       | -26        | -29       | -34        | -39        | —    | -44        | -51        |  |
| 18                    | 24  | $\pm 4,5$            | $\pm 6,5$  | $\pm 10,5$ | +1       | +2       | +6        | -5        | -4        | 0         | -11       | -7        | -18        | -14       | -20        | -27        | —    | -33        | -46        |  |
| 24                    | 30  |                      |            |            | -8       | -11      | -15       | -14       | -17       | -21       | -24       | -28       | -31        | -35       | -41        | -48        | -54  | -61        | -67        |  |
| 30                    | 40  | $\pm 5,5$            | $\pm 8$    | $\pm 12,5$ | +2       | +3       | +7        | -5        | -4        | 0         | -12       | -8        | -21        | -17       | -25        | -34        | -39  | -51        | -76        |  |
| 40                    | 50  |                      |            |            | -9       | -13      | -18       | -16       | -20       | -25       | -28       | -33       | -37        | -42       | -50        | -59        | -64  | -70        | -77        |  |
| 50                    | 65  | $\pm 6,5$            | $\pm 9,5$  | $\pm 15$   | +3       | +4       | +9        | -6        | -5        | 0         | -14       | -9        | -26        | -21       | -30        | -42        | -55  | -76        | -106       |  |
| 65                    | 80  |                      |            |            | -10      | -15      | -21       | -19       | -24       | -30       | -33       | -39       | -45        | -51       | -62        | -78        | -94  | -121       |            |  |
| 80                    | 100 | $\pm 7,5$            | $\pm 11$   | $\pm 17,5$ | +2       | +4       | +10       | -8        | -6        | 0         | -16       | -10       | -30        | -24       | -38        | -58        | -78  | -111       | -146       |  |
| 100                   | 120 |                      |            |            | -13      | -18      | -25       | -23       | -28       | -35       | -38       | -45       | -52        | -59       | -76        | -101       | -126 | -166       |            |  |
| 120                   | 140 | $\pm 9$              | $\pm 12,5$ | $\pm 20$   | +3       | +4       | +12       | -9        | -8        | 0         | -20       | -12       | -36        | -28       | -48        | -77        | -107 | —          | —          |  |
| 140                   | 160 |                      |            |            | -15      | -21      | -28       | -27       | -33       | -40       | -45       | -61       | -68        | -88       | -117       | -147       | —    | —          |            |  |
| 160                   | 180 |                      |            |            | -53      | -93      | -131      | -126      | -159      | -171      | —         | —         | —          | —         | —          | —          | —    | —          |            |  |
| 180                   | 200 | $\pm 10$             | $\pm 14,5$ | $\pm 23$   | +2       | +5       | +13       | -11       | -8        | 0         | -22       | -14       | -41        | -33       | -60        | -105       | -151 | —          | —          |  |
| 200                   | 225 |                      |            |            | -18      | -24      | -33       | -31       | -37       | -46       | -51       | -60       | -70        | -79       | -93        | -113       | -159 | —          | —          |  |
| 225                   | 250 |                      |            |            | -67      | -123     | -169      | —         | —         | —         | —         | —         | —          | —         | —          | —          | —    | —          |            |  |
| 250                   | 280 | $\pm 11,5$           | $\pm 16$   | $\pm 26$   | +3       | +5       | +16       | -13       | -9        | 0         | -25       | -14       | -47        | -36       | -74        | -126       | —    | —          | —          |  |
| 280                   | 315 |                      |            |            | -20      | -27      | -36       | -36       | -41       | -52       | -57       | -66       | -79        | -88       | -130       | —          | —    | —          |            |  |
| 315                   | 355 | $\pm 12,5$           | $\pm 18$   | $\pm 28,5$ | +3       | +7       | +17       | -14       | -10       | 0         | -26       | -16       | -51        | -41       | -87        | -144       | —    | —          | —          |  |
| 355                   | 400 |                      |            |            | -22      | -29      | -40       | -39       | -46       | -57       | -62       | -73       | -87        | -98       | -150       | —          | —    | —          |            |  |
| 400                   | 450 | $\pm 13,5$           | $\pm 20$   | $\pm 31,5$ | +2       | +8       | +18       | -16       | -10       | 0         | -27       | -17       | -55        | -45       | -103       | -166       | —    | —          | —          |  |
| 450                   | 500 |                      |            |            | -25      | -32      | -45       | -43       | -50       | -63       | -67       | -80       | -95        | -108      | -172       | —          | —    | —          |            |  |

**Catatan:** Nilai atas menunjukkan penyimpangan atas, dan nilai bawah penyimpangan bawah.

**LAMPIRAN 9**  
**GAMBAR KERJA**

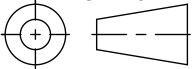



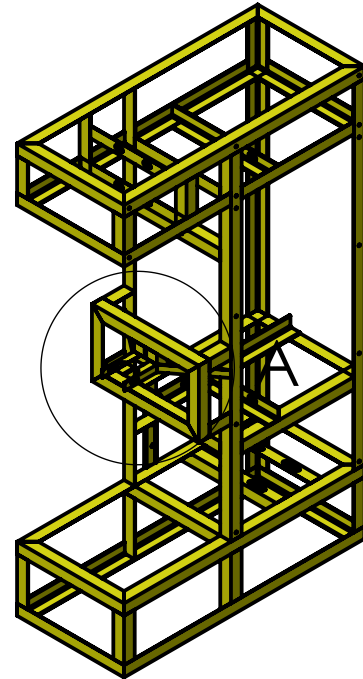
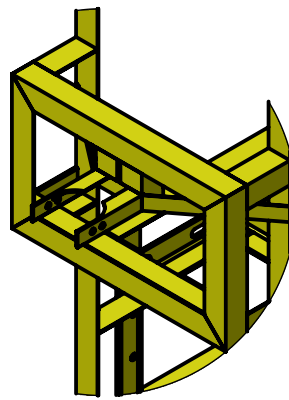
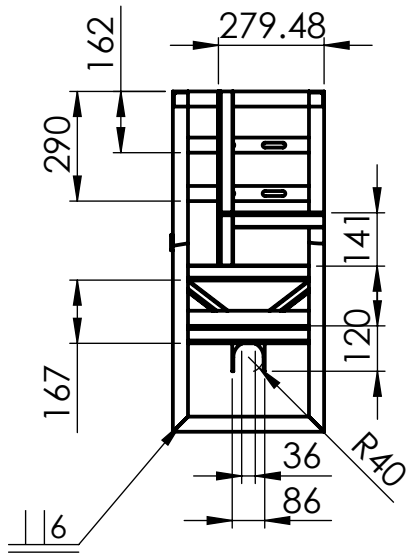
| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |       |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|-------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut |             | NO. ORDER    |            |            |       |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |       |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |       |
| <h1>MESIN PENCETAK BAKSO</h1>    |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWI S |
|                                  |             |      |      |      |      |      |                   |             | 1 : 10       | DIPERIKSA  |            |       |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |       |
|                                  |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |       |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |       |



| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut |             | NO. ORDER    |            |            |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <h1>MESIN PENCETAK BAKSO</h1>    |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             |              | DIPERIKSA  |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                  |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                  |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |      |

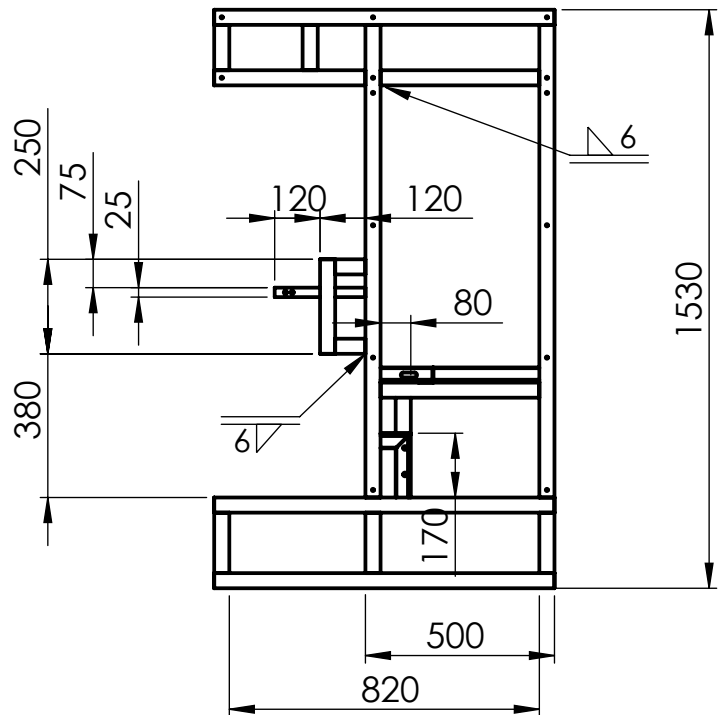
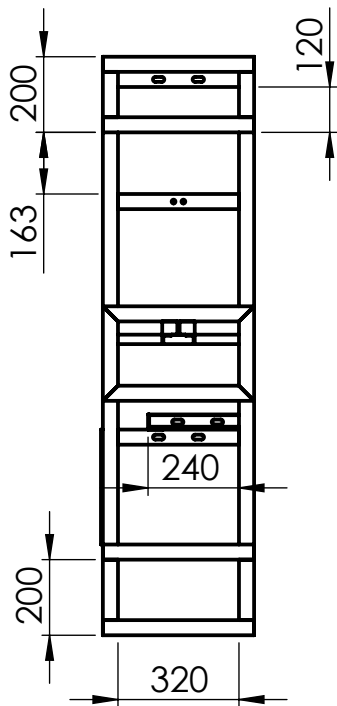
| NO | NAMA KOMPONEN   | QTY | SPESIFIKASI                       |
|----|-----------------|-----|-----------------------------------|
| 1  | Rangka Mesin    | 1   | SS400                             |
| 2  | Motor Listrik   | 1   | AC 1/2 HP                         |
| 3  | Poros 1         | 1   | S45C                              |
| 4  | Poros 2         | 1   | S45C                              |
| 5  | Poros 3         | 1   | S45C                              |
| 6  | Poros 4         | 1   | S45C                              |
| 7  | Speed Reducer   | 1   | WPA 40                            |
| 8  | Puli 3 in       | 3   | Tipe A                            |
| 9  | Puli 3 in       | 1   | Tipe B                            |
| 10 | Puli 5 in       | 1   | Tipe B                            |
| 11 | Puli 7 in       | 2   | Tipe B                            |
| 12 | Sproket 1       | 1   | RS 35                             |
| 13 | Sproket 2       | 1   | RS 35                             |
| 14 | V-belt b51      | 2   | B51                               |
| 15 | V-belt 3v 300   | 1   | 3V300                             |
| 16 | V-belt a22      | 1   | A22                               |
| 17 | Rantai          | 1   | RS50                              |
| 18 | Hopper          | 1   | Alumunium 6061                    |
| 19 | Screw           | 1   | Stainless steel 304               |
| 20 | Dudukan Hopper  | 1   | Alumunium 6061                    |
| 21 | Nozzle          | 1   | Alumunium 6061                    |
| 22 | Mekanisme pisau | 1   | Mild steel dan stainlesssteel 304 |
| 23 | Cam             | 1   | Mild steel                        |
| 24 | Pegas           | 2   | Baja pegas                        |
| 25 | Bantalan        | 7   | UCP                               |

| JML  | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID  | KETERANGAN |  |
|--|-------------|------|------|------|------|------|-------------------|-------------|--------------|---|------------|--|
| >  | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              |  |            |  |
| <  | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |   |            |  |
| TOL  | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |   |            |  |
| <b>MESIN PENCETAK BAKSO</b>  |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR  |            |  |
|  |             |      |      |      |      |      |                   |             |              | DIPERIKSA   |            |  |
|  |             |      |      |      |      |      |                   |             |              | DISAHKAN  |            |  |
|  |             |      |      |      |      |      |                   |             |              |   |            |  |
|  <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR  |            |  |
|  |             |      |      |      |      |      |                   |             | <b>A4</b>    |   |            |  |



# DETAIL A

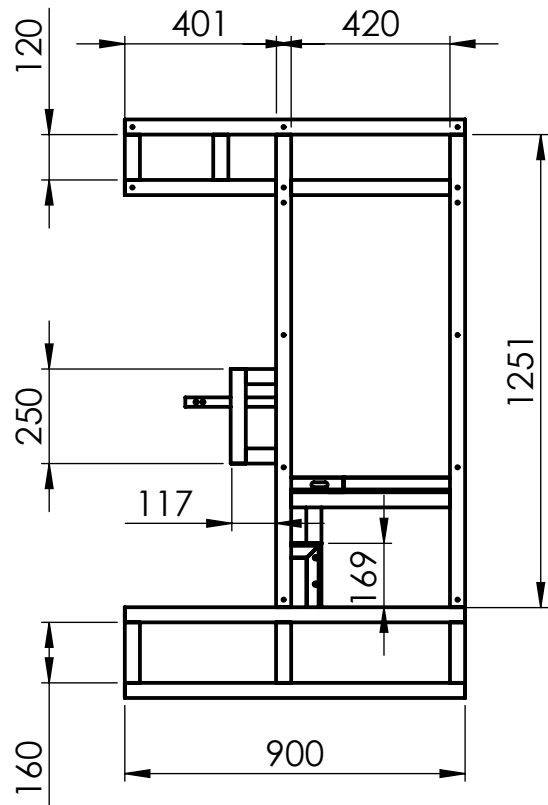
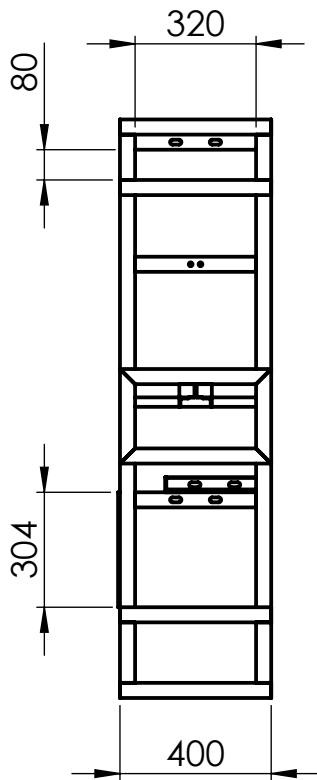
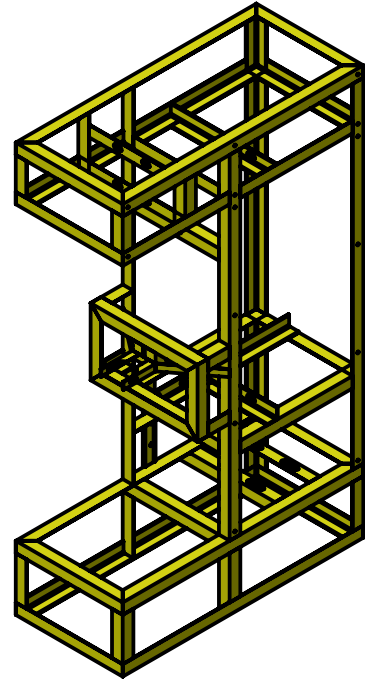
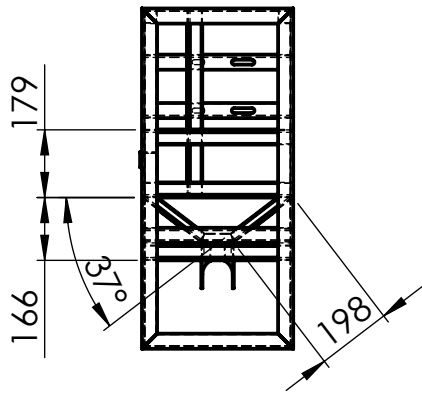
SCALE 1 : 10

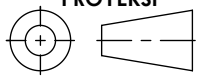



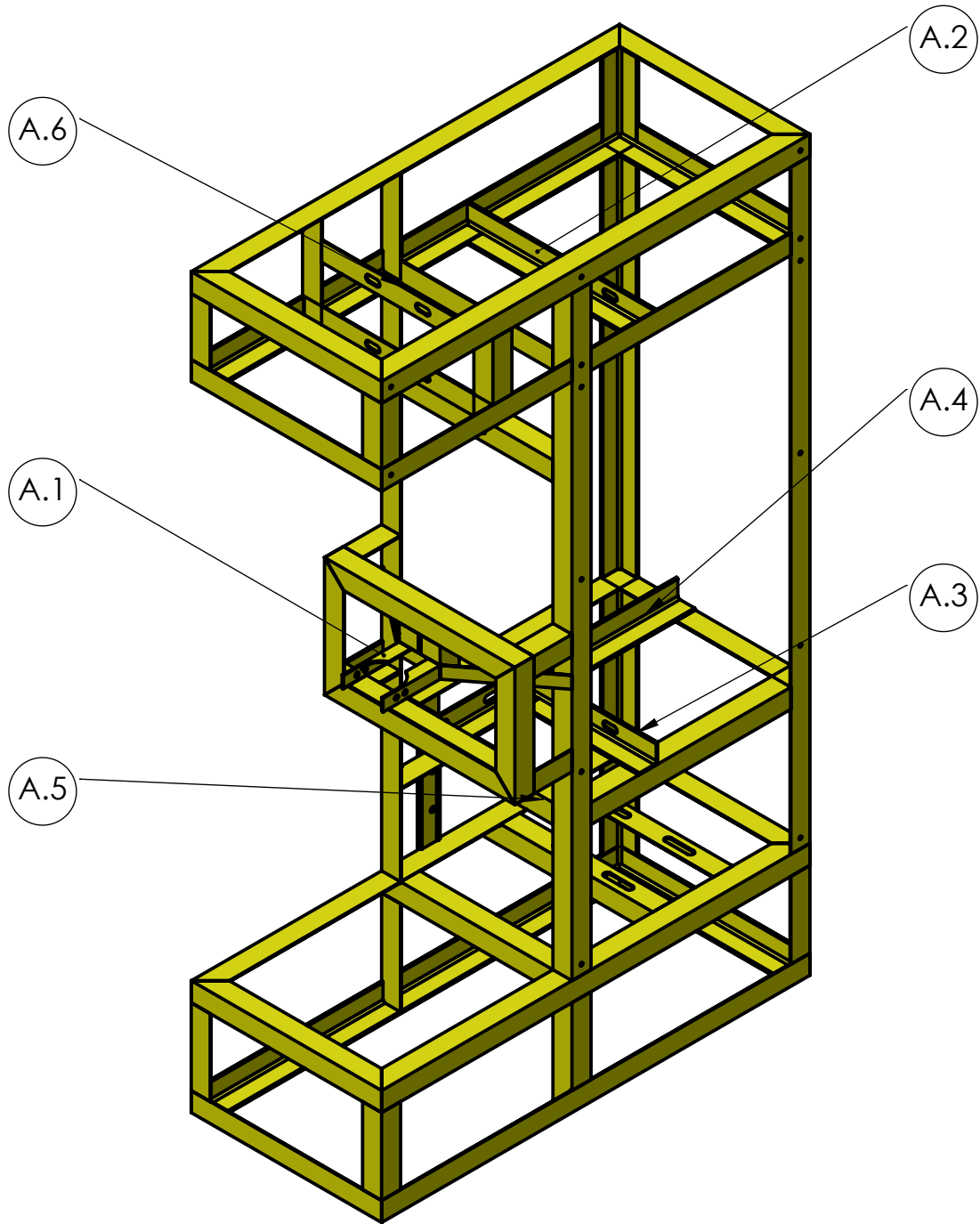
Note : Gambar ini menggunakan besi siku ukuran 40 x 40 x 3 mm dan 25 x 25 x 3 mm

| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |       |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|-------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              |            |            |       |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |       |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |       |
| <h1>RANGKA MESIN</h1>            |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWI S |
|                                  |             |      |      |      |      |      |                   |             | 1 : 20       | DIPERIKSA  |            |       |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |       |
|                                  |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |       |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | A4         |            |       |

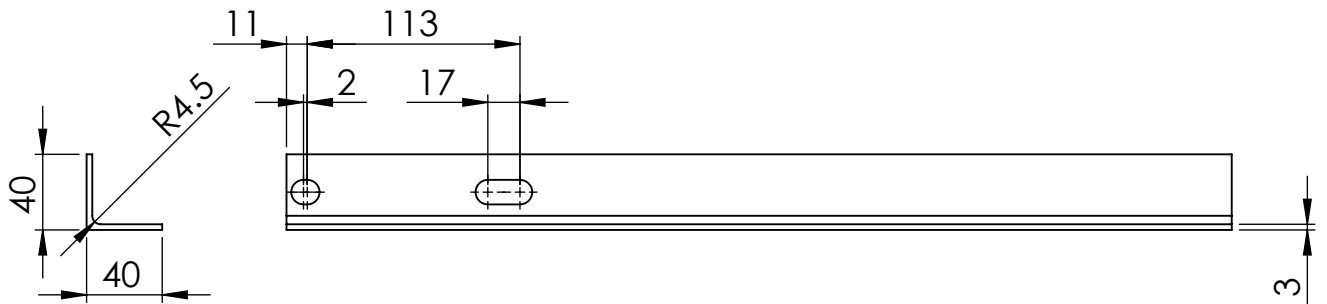
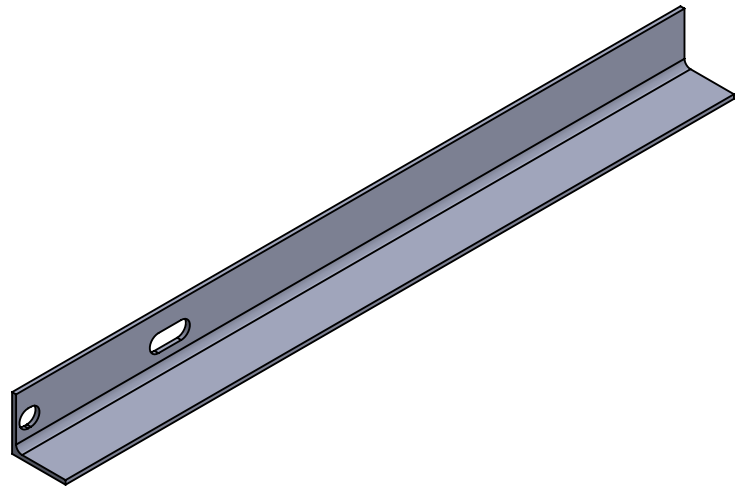
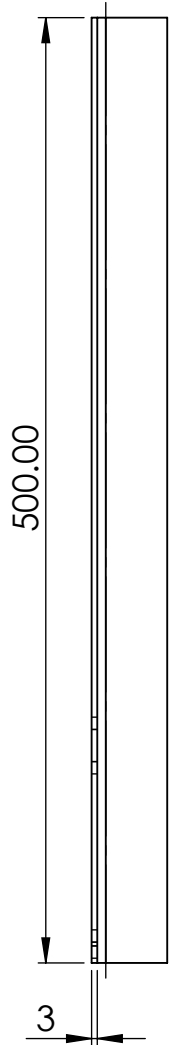




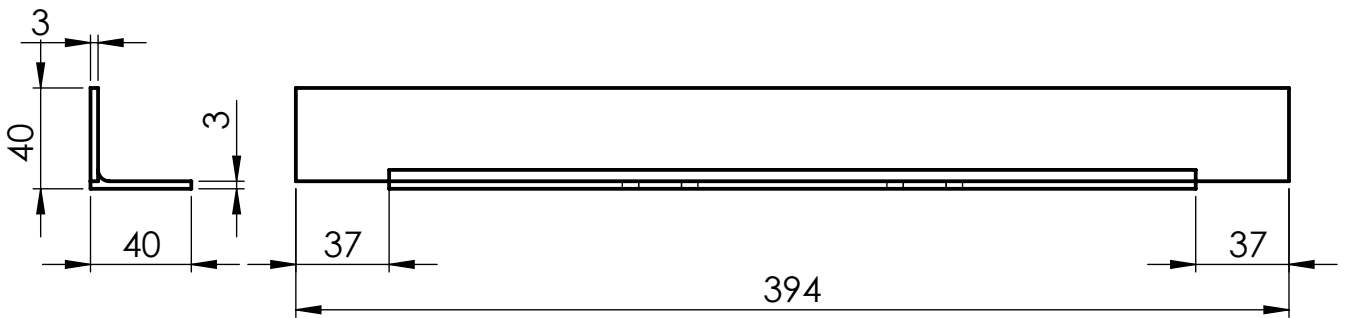
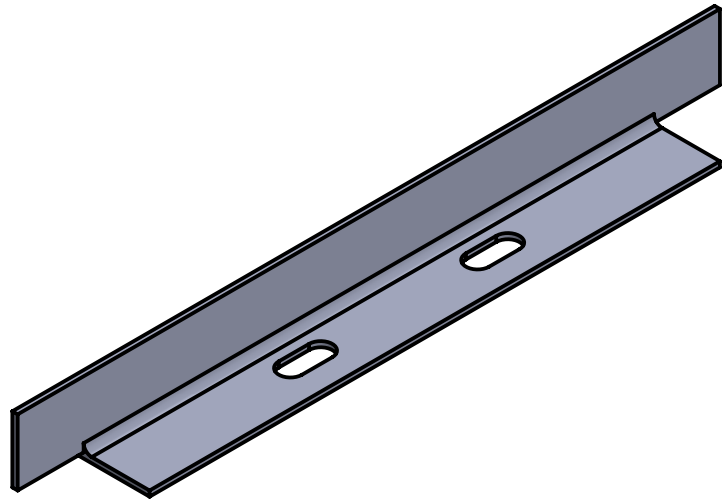
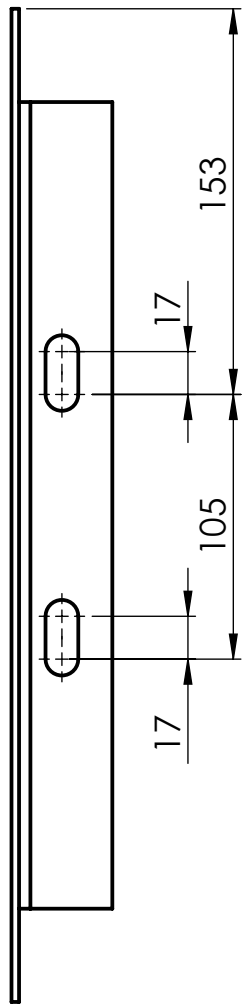
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|--|-------------|------|------|------|------|------|-------------------|-------------|--------------|---|------------|------|
| >  | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              |  |            |      |
| <  | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |   |            |      |
| TOL  | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |   |            |      |
| <h1>RANGKA MESIN</h1>  |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR  |            | DWIS |
|  |             |      |      |      |      |      |                   |             | 1 : 20       | DIPERIKSA   |            |      |
|  |             |      |      |      |      |      |                   |             |              | DISAHKAN  |            |      |
|  |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR  |            |      |
|  <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | A4  |            |      |



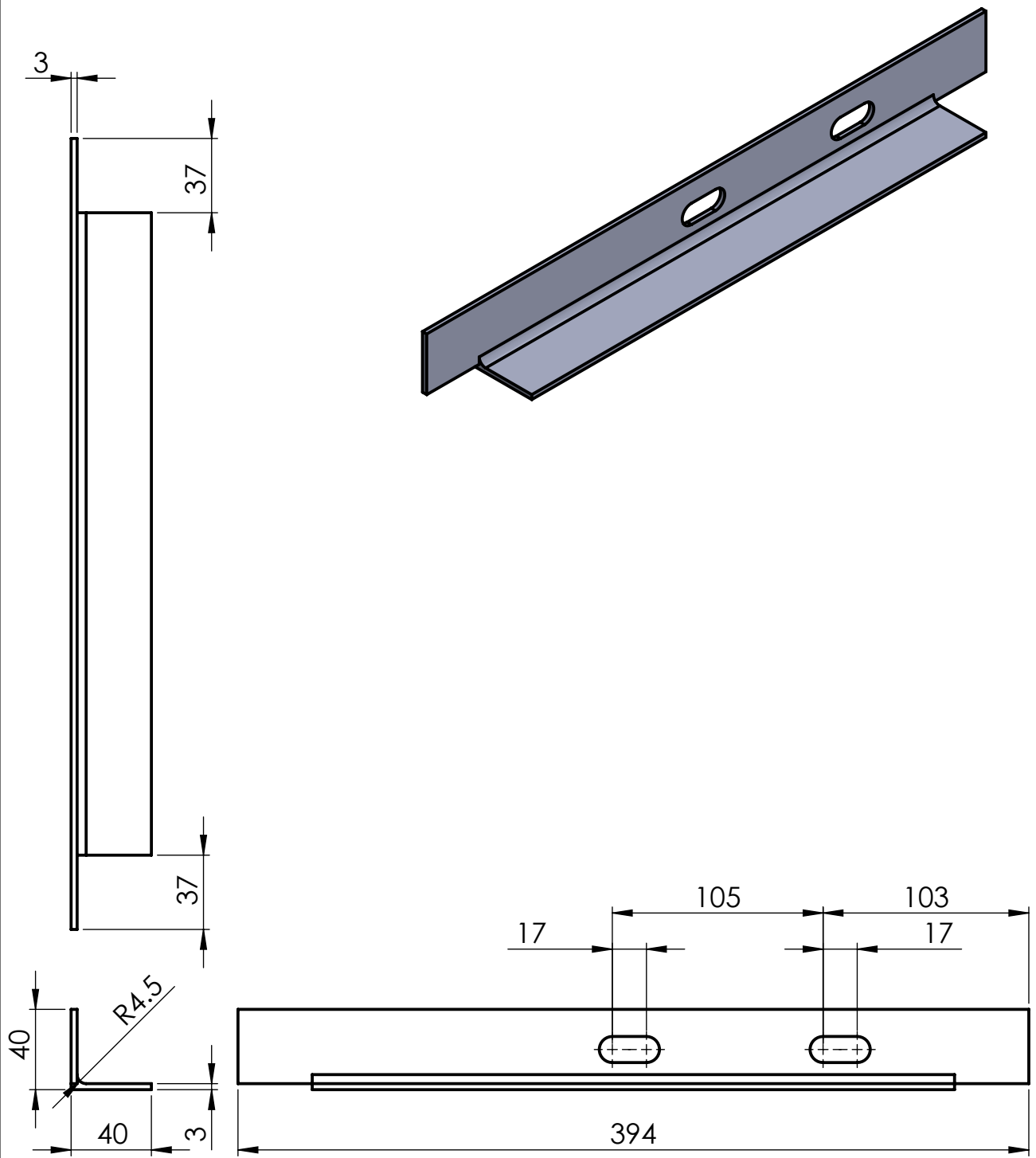
| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut |             | NO. ORDER    | PROYEKSI   |            |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <h1>RANGKA MESIN</h1>            |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             | 1 : 10       | DIPERIKSA  |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                  |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                  |             |      |      |      |      |      |                   |             | A4           |            |            |      |



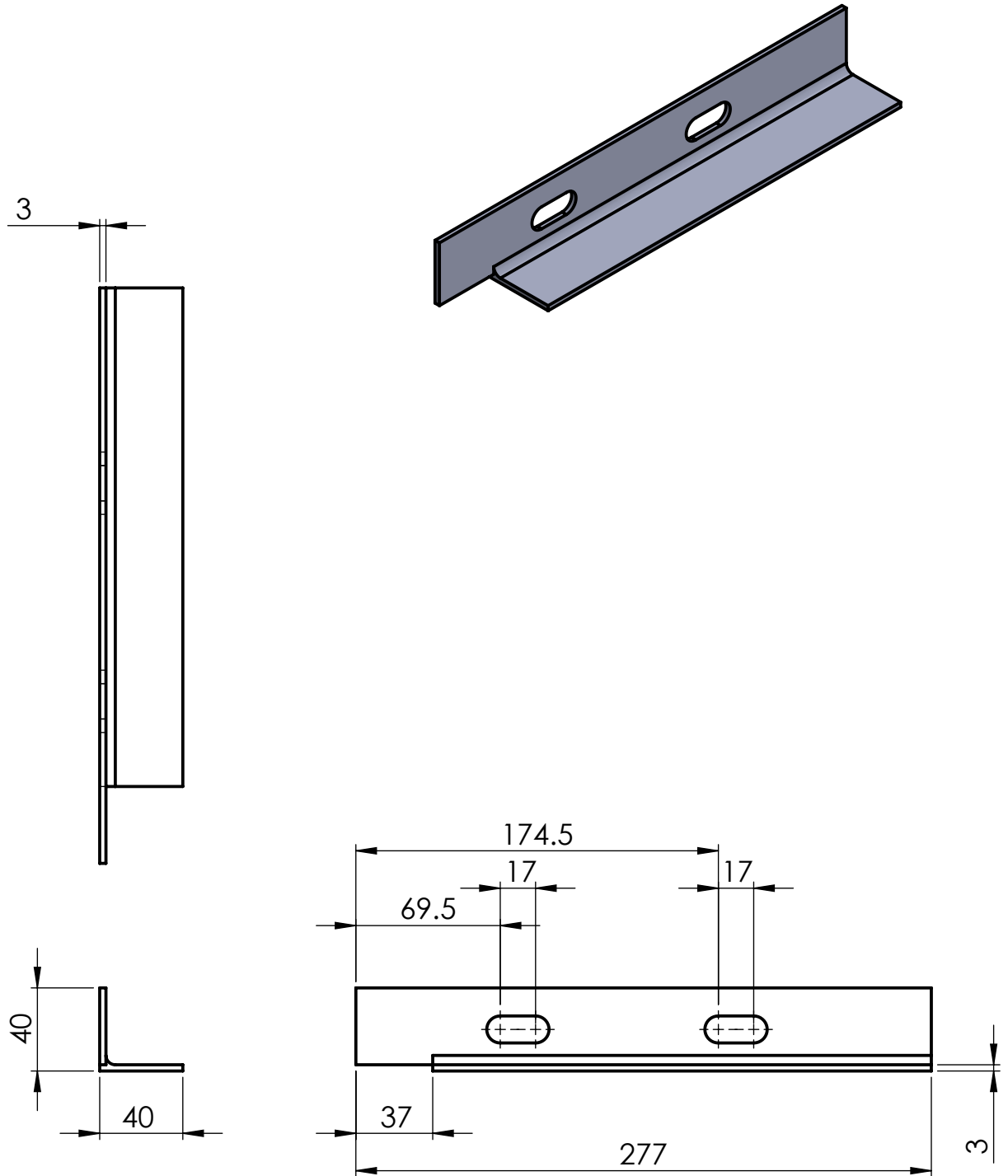
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|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              |            |            |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <b>DUDUKAN BANTALAN POROS 1</b>  |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             | 1 : 4        | DIPERIKSA  |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                  |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                  |             |      |      |      |      |      |                   |             | A4           |            |            |      |



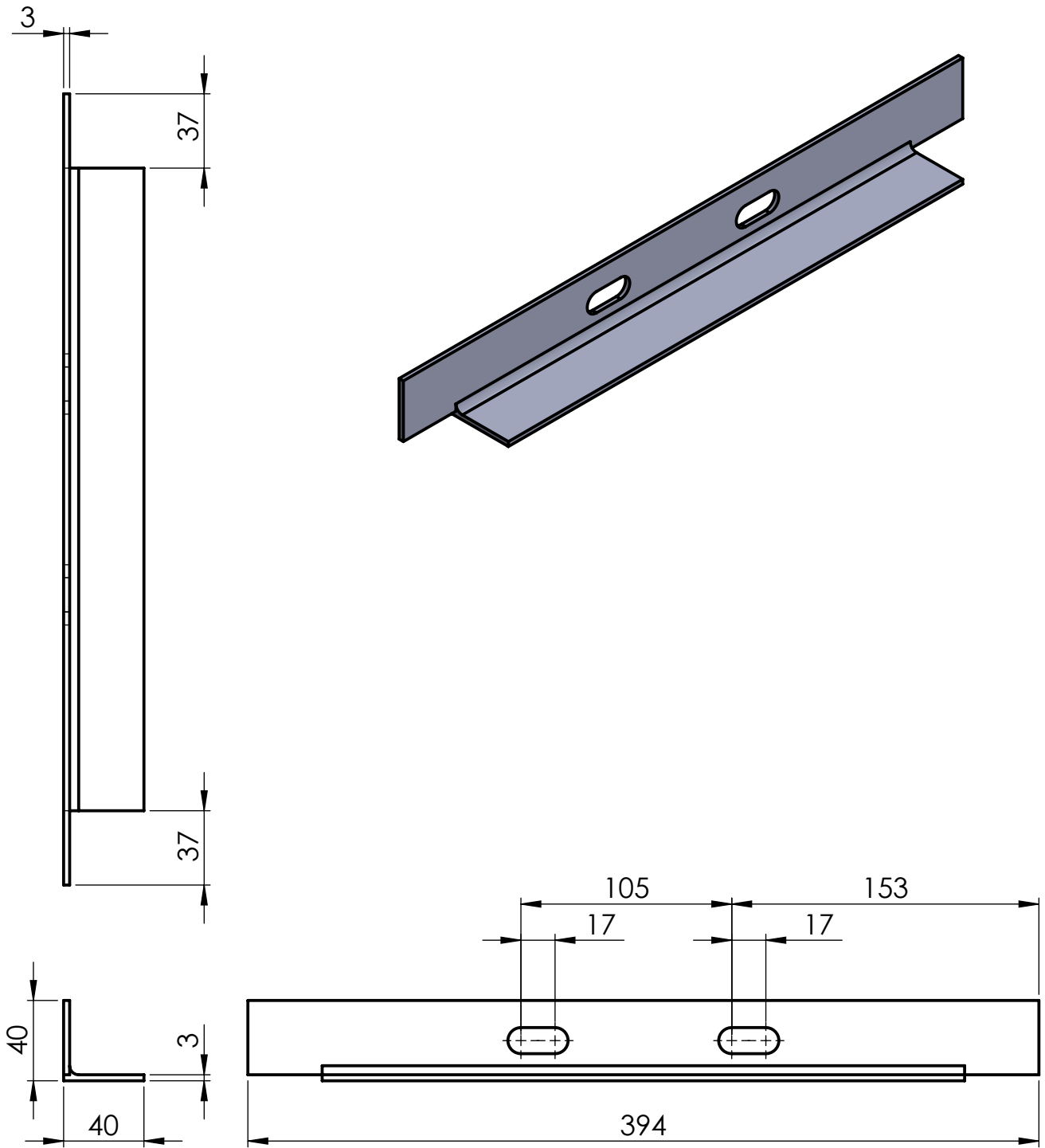
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|---------------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                     | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI   |            |      |
| <                                     | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                                   | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <b>DUDUKAN BANTALAN POROS 2 BAWAH</b> |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                       |             |      |      |      |      |      |                   |             | 1 : 3        | DIPERIKSA  |            |      |
|                                       |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                       |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b>      |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                       |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |      |



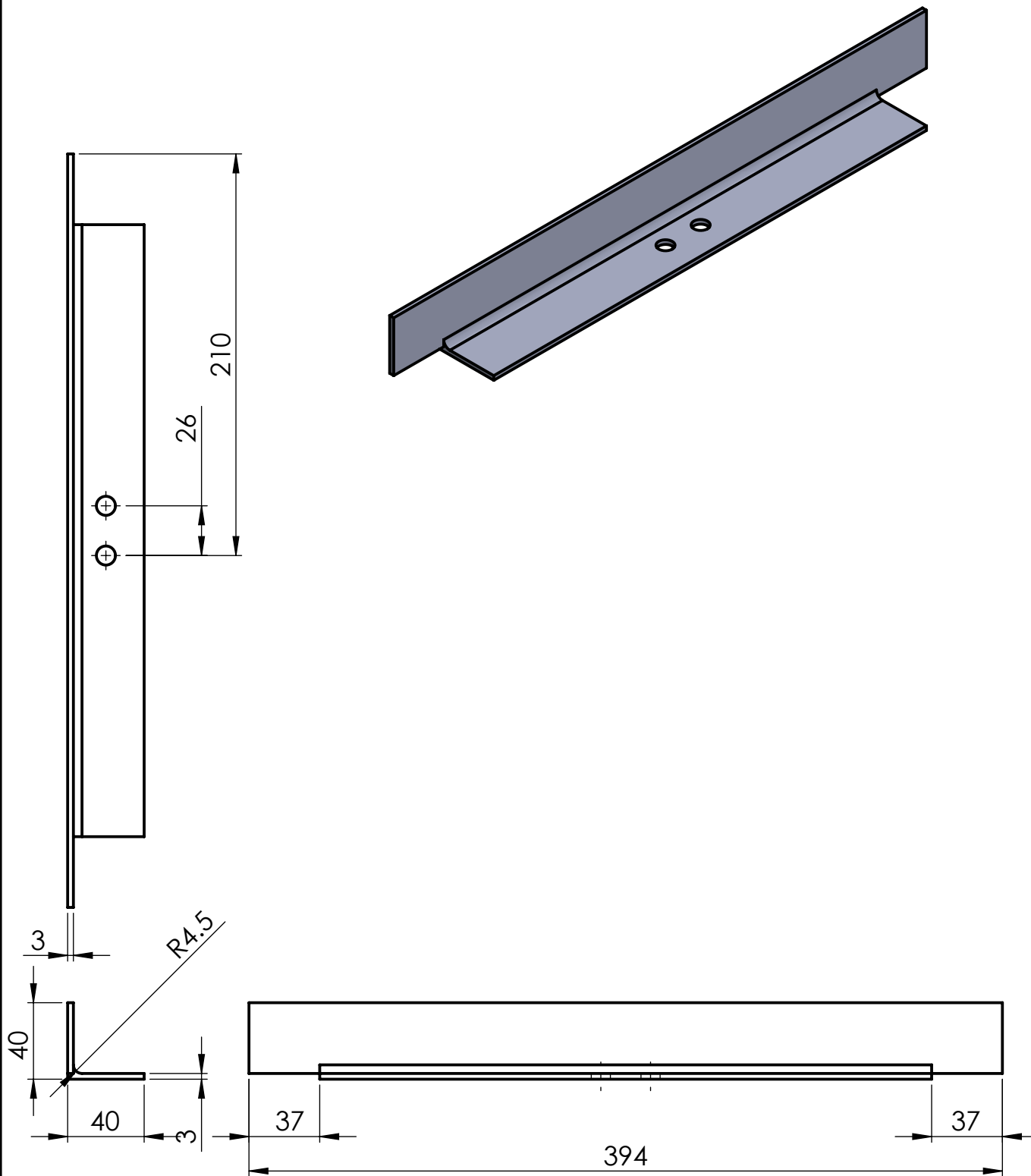
| JML                                  | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR                     | NO. ID    | KETERANGAN |      |
|--------------------------------------|-------------|------|------|------|------|------|-------------------|-------------|----------------------------------|-----------|------------|------|
| >                                    | 0           | 6    | 30   | 120  | 400  | 1000 | PENGERJAAN LANJUT |             | NO. ORDER                        | PROYEKSI  |            |      |
| <                                    | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |                                  |           |            |      |
| TOL                                  | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |                                  |           |            |      |
| <b>DUDUKAN BANTALAN POROS 3 ATAS</b> |             |      |      |      |      |      |                   |             | SKALA                            | DIGAMBAR  |            | DWIS |
|                                      |             |      |      |      |      |      |                   |             | 1 : 3                            | DIPERIKSA |            |      |
|                                      |             |      |      |      |      |      |                   |             |                                  | DISAHKAN  |            |      |
|                                      |             |      |      |      |      |      |                   |             | <b>POLITEKNIK NEGERI CILACAP</b> |           |            |      |
|                                      |             |      |      |      |      |      |                   |             | <b>A4</b>                        |           |            |      |



| JML                                   | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI         | UKURAN KASAR | NO. ID       | KETERANGAN |
|---------------------------------------|-------------|------|------|------|------|------|-------------------|---------------------|--------------|--------------|------------|
| >                                     | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER           |              | PROYEKSI<br> |            |
| <                                     | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |                     |              |              |            |
| TOL                                   | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |                     |              |              |            |
| <b>DUDUKAN BANTALAN POROS 3 BAWAH</b> |             |      |      |      |      |      |                   | SKALA<br>1 : 3      | DIGAMBAR     |              | DWIS       |
|                                       |             |      |      |      |      |      |                   |                     | DIPERIKSA    |              |            |
|                                       |             |      |      |      |      |      |                   |                     | DISAHKAN     |              |            |
|                                       |             |      |      |      |      |      |                   |                     |              |              |            |
| <b>POLITEKNIK NEGERI CILACAP</b>      |             |      |      |      |      |      |                   | FORMAT<br><b>A4</b> | NO. GAMBAR   |              |            |



| JML                                   | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|---------------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                     | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI   |            |      |
| <                                     | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                                   | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <b>DUDUKAN BANTALAN POROS 4 BAWAH</b> |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                       |             |      |      |      |      |      |                   |             | 1 : 3        | DIPERIKSA  |            |      |
|                                       |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                       |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b>      |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                       |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |      |

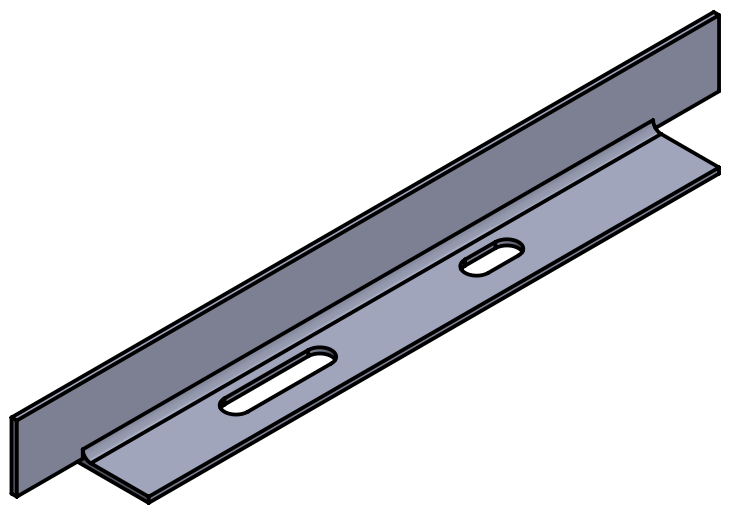
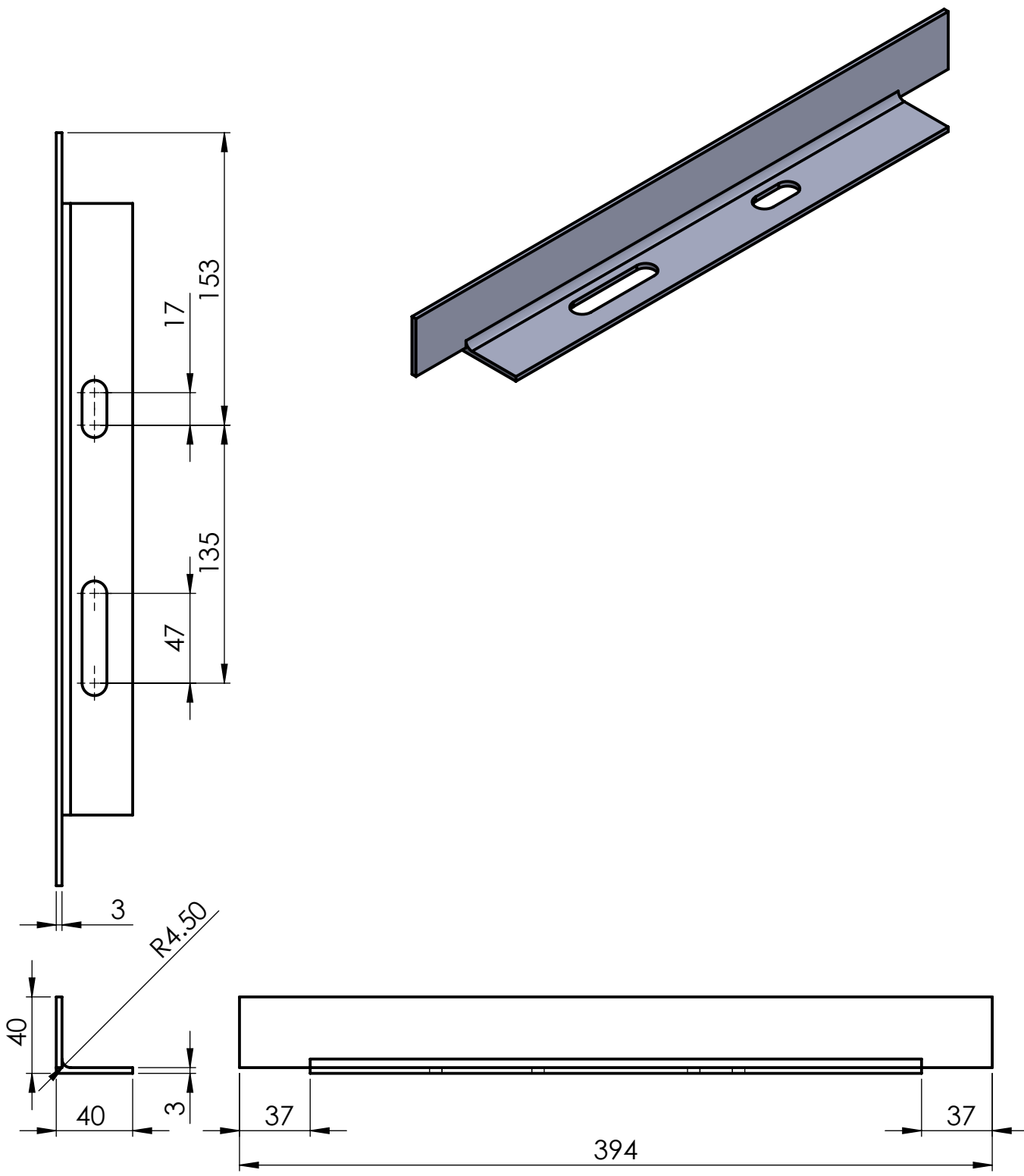


| JML | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID | KETERANGAN |
|-----|-------------|------|------|------|------|------|-------------------|-------------|--------------|--------|------------|
| >   | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut |             | NO. ORDER    |        |            |
| <   | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |        |            |
| TOL | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |        |            |

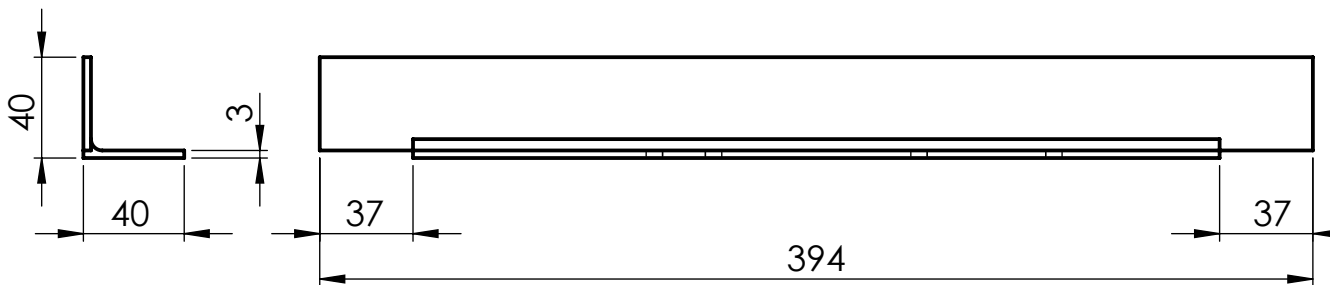
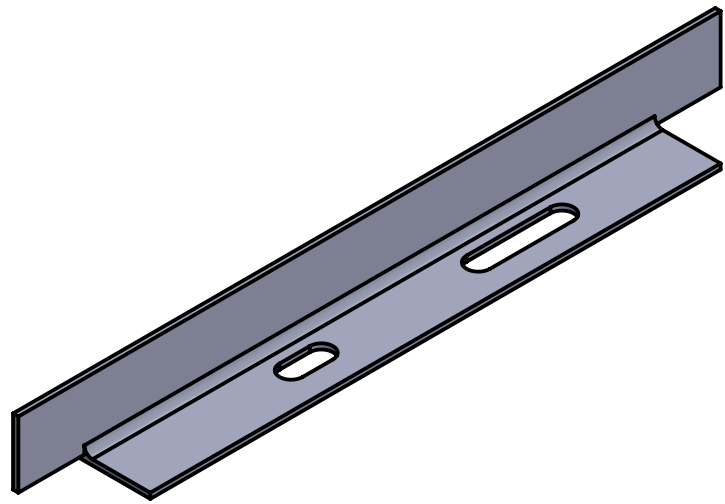
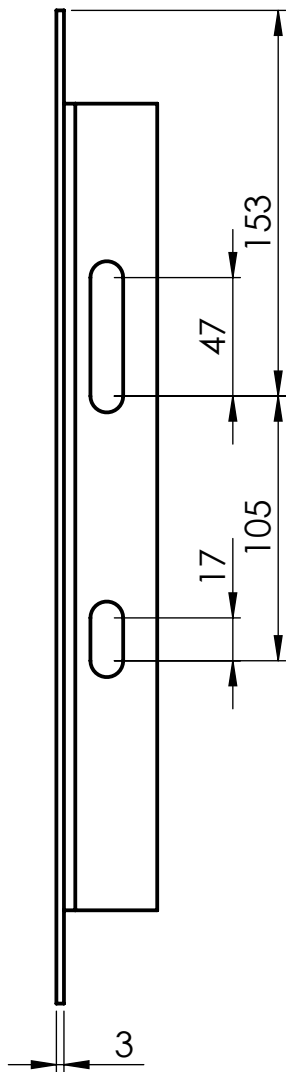
|                            |       |           |      |
|----------------------------|-------|-----------|------|
| <b>DUDUKAN HOPPER ATAS</b> | SKALA | DIGAMBAR  | DWIS |
|                            | 1 : 3 | DIPERIKSA |      |
|                            |       | DISAHKAN  |      |

|                                  |                     |            |
|----------------------------------|---------------------|------------|
| <b>POLITEKNIK NEGERI CILACAP</b> | FORMAT<br><b>A4</b> | NO. GAMBAR |
|----------------------------------|---------------------|------------|

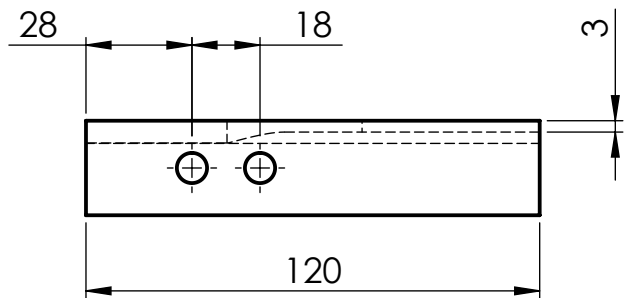
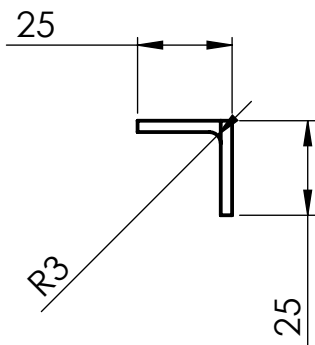
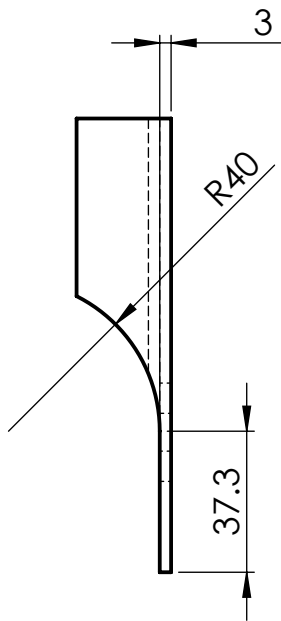
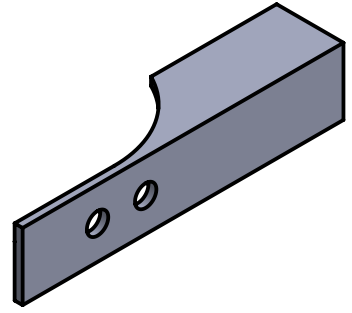




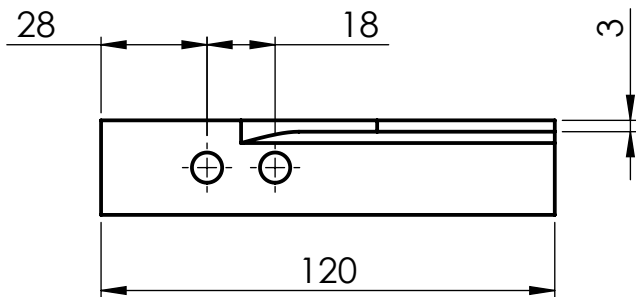
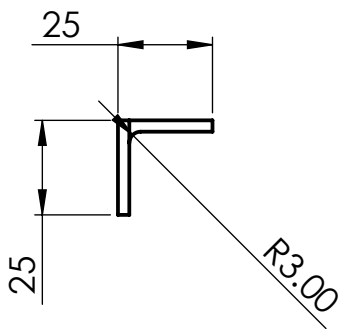
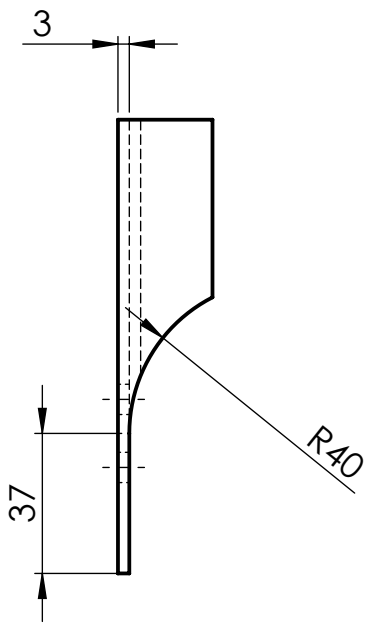
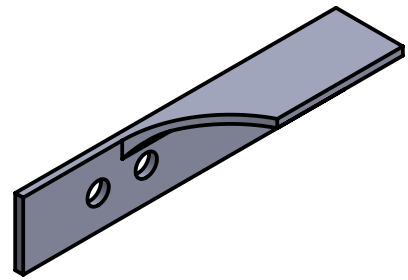
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|---------------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                     | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut |             | NO. ORDER    | PROYEKSI   |            |      |
| <                                     | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                                   | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <b>DUDUKAN MOTOR LISTRIK BELAKANG</b> |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                       |             |      |      |      |      |      |                   |             | 1 : 3        | DIPERIKSA  |            |      |
|                                       |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                       |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b>      |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                       |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |      |

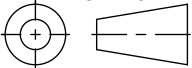



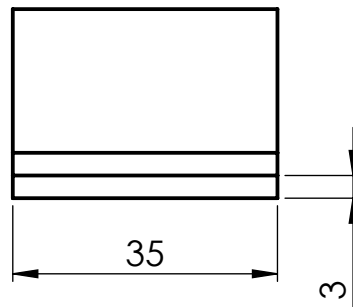
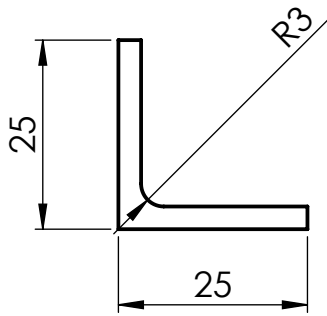
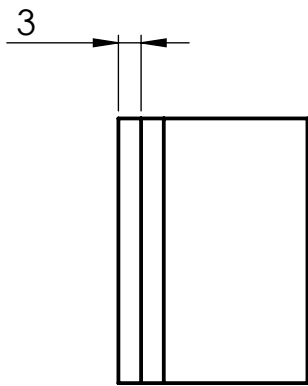
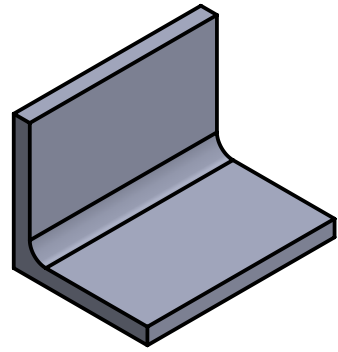
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|------------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|-----------|------------|
| >                                  | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut |             | NO. ORDER    | PROYEKSI  |            |
| <                                  | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |           |            |
| TOL                                | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |           |            |
| <b>DUDUKAN MOTOR LISTRIK DEPAN</b> |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR  | DWIS       |
|                                    |             |      |      |      |      |      |                   |             | 1 : 3        | DIPERIKSA |            |
|                                    |             |      |      |      |      |      |                   |             |              | DISAHKAN  |            |
|                                    |             |      |      |      |      |      |                   |             |              | FORMAT    | NO. GAMBAR |
| <b>POLITEKNIK NEGERI CILACAP</b>   |             |      |      |      |      |      |                   |             | <b>A4</b>    |           |            |

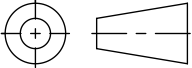



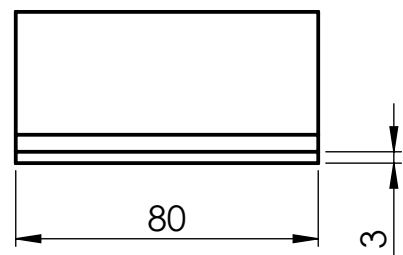
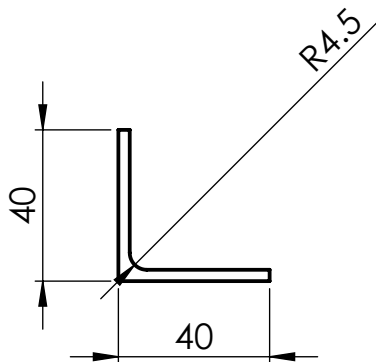
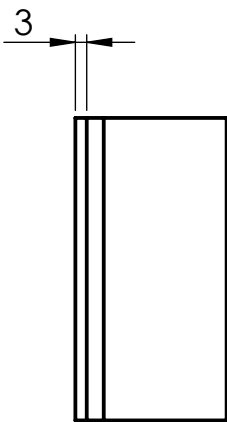
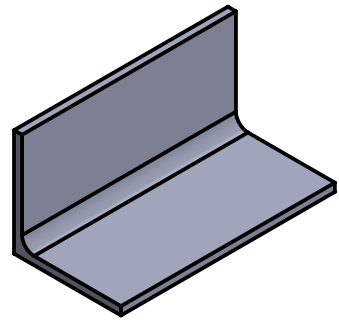
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|-------------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                   | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut |             | NO. ORDER    | PROYEKSI   |            |      |
| <                                   | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                                 | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <b>PENAHAN DUDUKAN HOPPER KANAN</b> |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                     |             |      |      |      |      |      |                   |             | 1 : 2        | DIPERIKSA  |            |      |
|                                     |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                     |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b>    |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                     |             |      |      |      |      |      |                   |             | A4           |            |            |      |



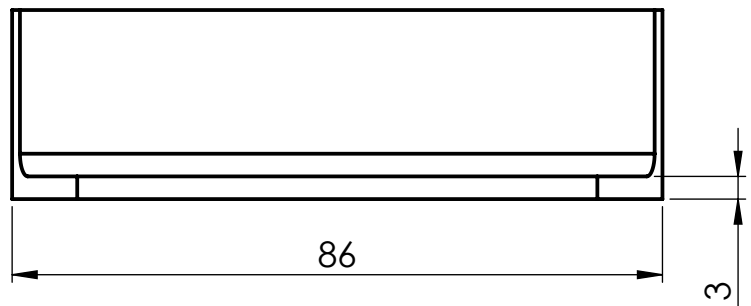
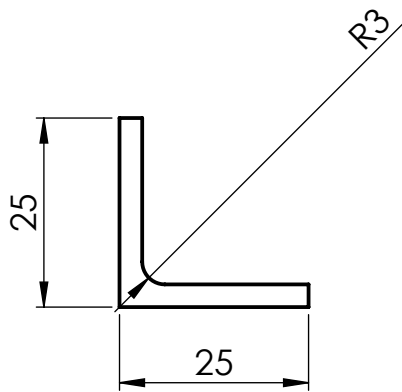
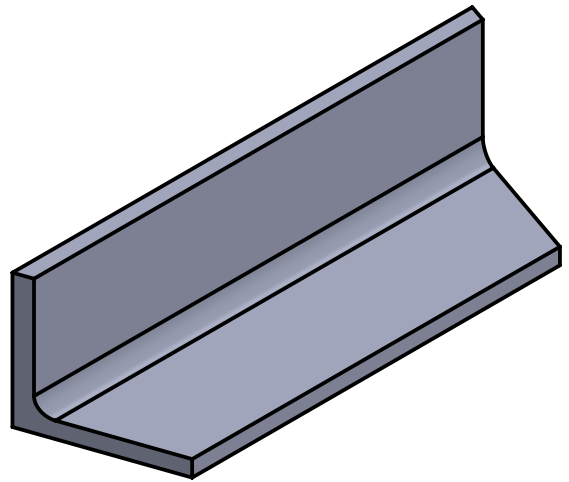
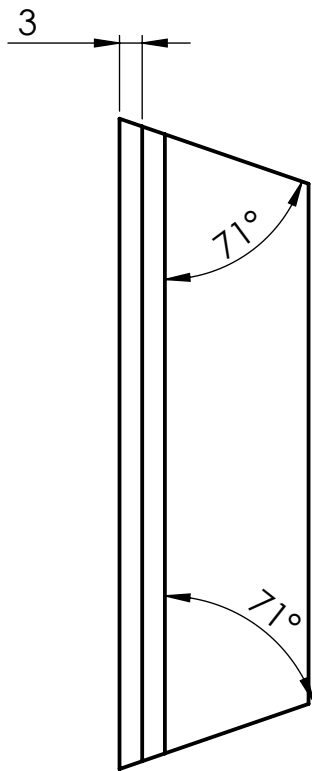
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|------------------------------------|-------------|------|------|------|------|------|--------------------|-------------|--|---|------------|------|
| >                                  | 0           | 6    | 30   | 120  | 400  | 1000 | PENGKERJAAN LANJUT | NO. ORDER   |  |  |            |      |
| <                                  | 6           | 30   | 120  | 400  | 1000 | 2000 |                    |             |  |   |            |      |
| TOL                                | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                    |             |  |   |            |      |
| <b>PENAHAN DUDUKAN HOPPER KIRI</b> |             |      |      |      |      |      |                    |             | SKALA  | DIGAMBAR  |            | DWIS |
|                                    |             |      |      |      |      |      |                    |             | 1 : 2  | DIPERIKSA   |            |      |
|                                    |             |      |      |      |      |      |                    |             |  | DISAHKAN  |            |      |
|                                    |             |      |      |      |      |      |                    |             |  <b>POLITEKNIK NEGERI CILACAP</b> |   |            |      |
|                                    |             |      |      |      |      |      |                    |             | <b>A4</b>  |   |            |      |

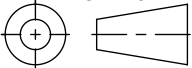



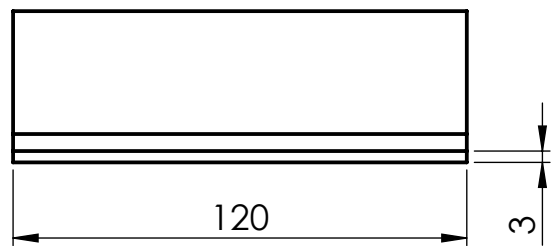
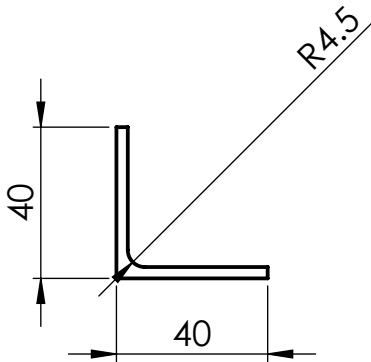
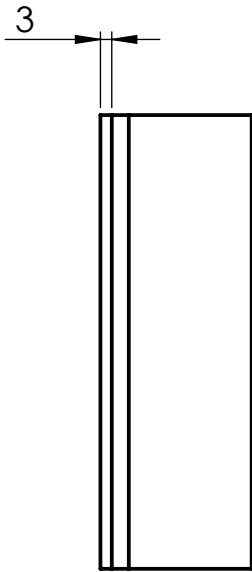
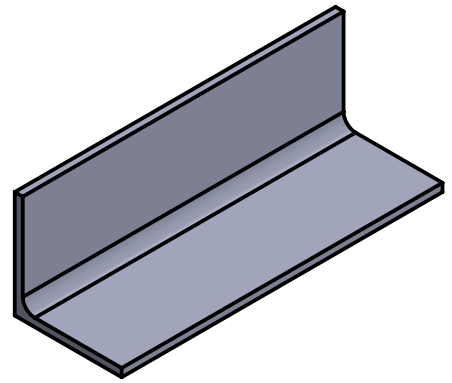
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|--|-------------|------|------|------|------|------|-------------------|-------------|--------------|---|------------|------|
| >  | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              |  |            |      |
| <  | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |   |            |      |
| TOL  | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |   |            |      |
| <b>SIKU PANJANG 35 MM</b>  |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR  |            | DWIS |
|  |             |      |      |      |      |      |                   |             | 1 : 1        | DIPERIKSA   |            |      |
|  |             |      |      |      |      |      |                   |             |              | DISAHKAN  |            |      |
|  |             |      |      |      |      |      |                   |             |              |   |            |      |
|  <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR  |            |      |
|  |             |      |      |      |      |      |                   |             | A4           |   |            |      |



| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI   |            |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <b>SIKU PANJANG 80 MM</b>        |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             | 1 : 2        | DIPERIKSA  |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                  |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                  |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |      |

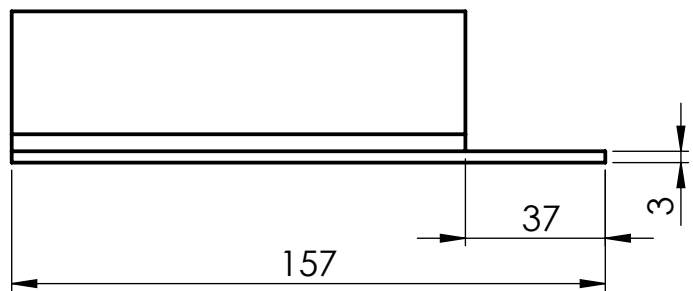
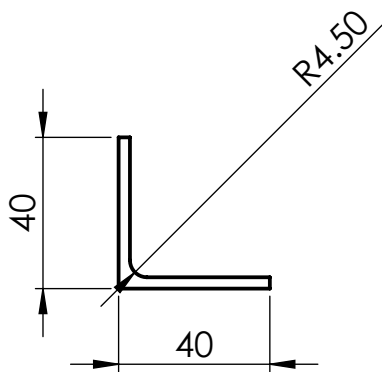
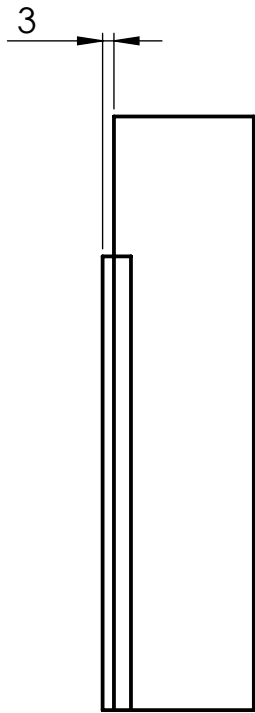
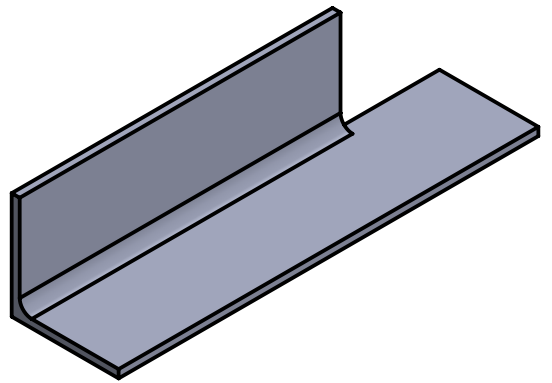


| JML  | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID  | KETERANGAN |      |
|--|-------------|------|------|------|------|------|-------------------|-------------|--------------|---|------------|------|
| >  | 0           | 6    | 30   | 120  | 400  | 1000 | PENGERJAAN LANJUT | NO. ORDER   |              |  |            |      |
| <  | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |   |            |      |
| TOL  | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |   |            |      |
| <b>SIKU PANJANG 86 MM</b>  |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR  |            | DWIS |
|  |             |      |      |      |      |      |                   |             | 1 : 1        | DIPERIKSA   |            |      |
|  |             |      |      |      |      |      |                   |             |              | DISAHKAN  |            |      |
|  |             |      |      |      |      |      |                   |             |              |   |            |      |
|  <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR  |            |      |
|  |             |      |      |      |      |      |                   |             | <b>A4</b>    |   |            |      |

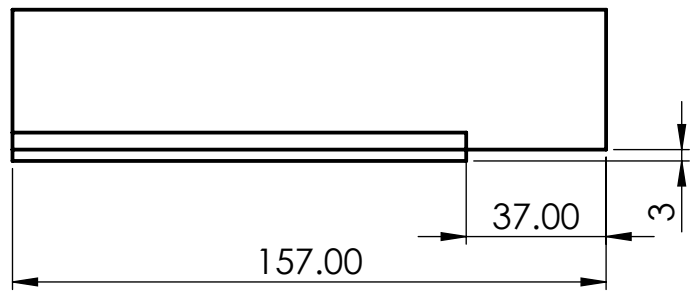
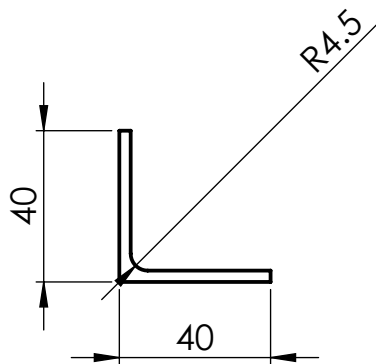
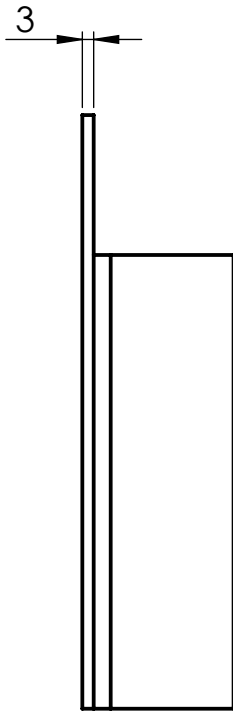
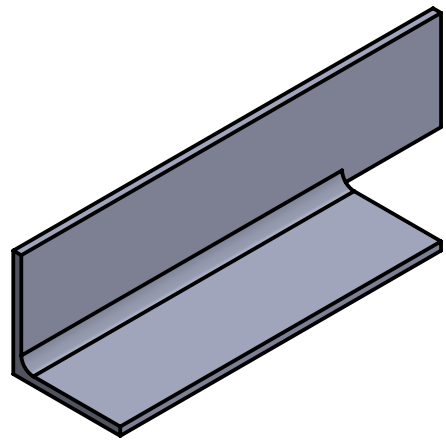


| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID       | KETERANGAN |      |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|--------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI<br> |            |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |              |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |              |            |      |
| <b>SIKU PANJANG 120 MM</b>       |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR     |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             | 1 : 2        | DIPERIKSA    |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN     |            |      |
|                                  |             |      |      |      |      |      |                   |             |              |              |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR   |            |      |
|                                  |             |      |      |      |      |      |                   |             | <b>A4</b>    |              |            |      |

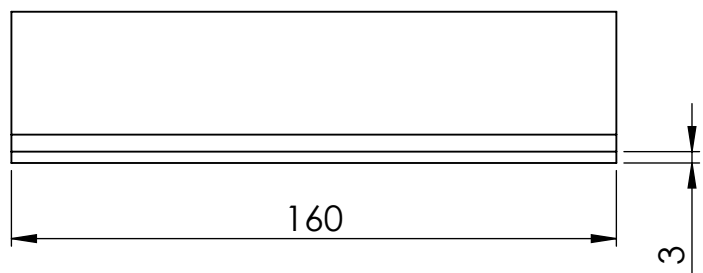
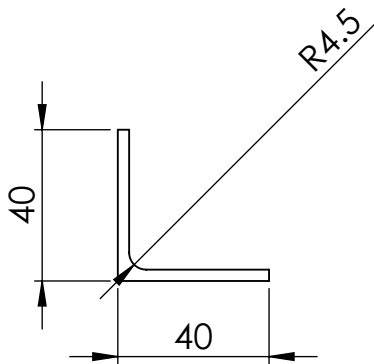
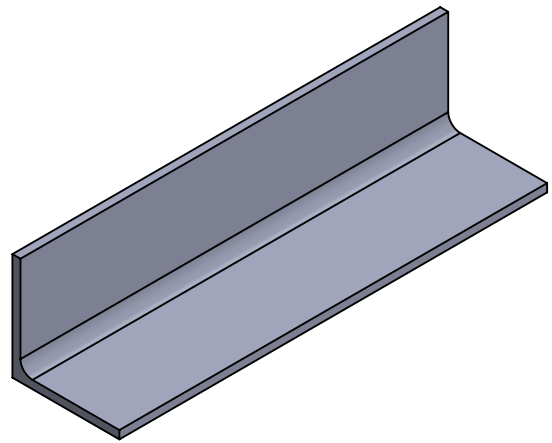
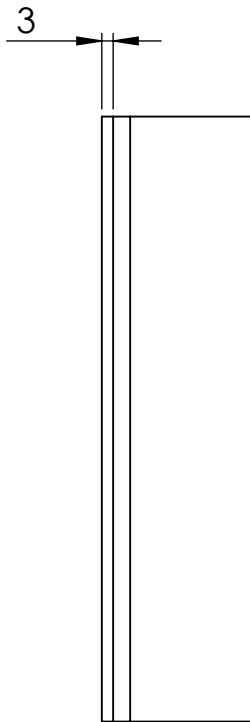




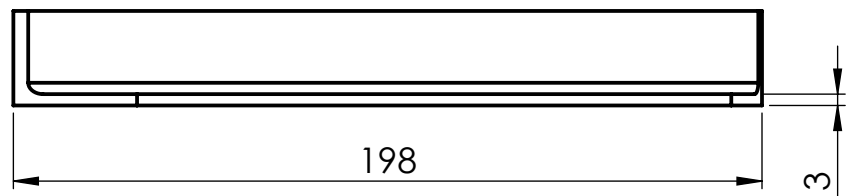
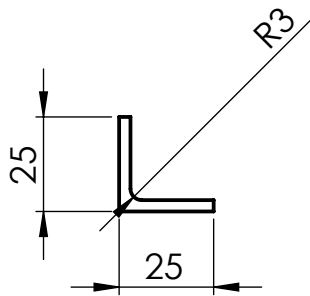
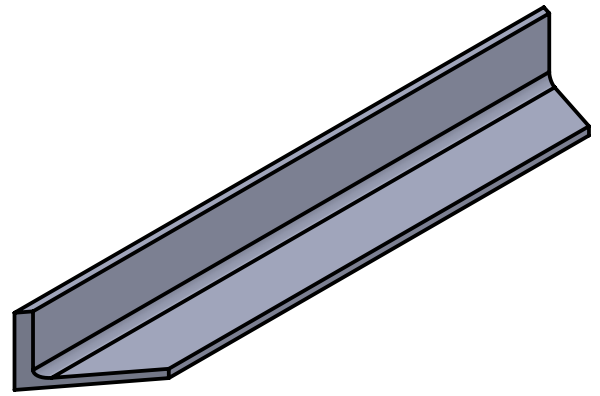
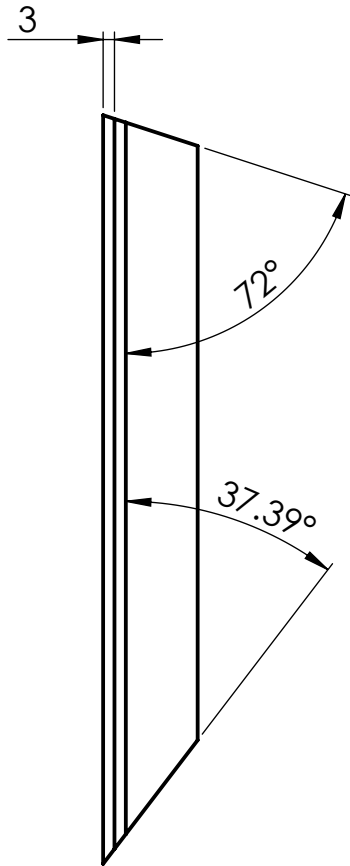
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|---------------------------------------|-------------|------|------|------|------|------|--------------------|-------------|--------------|------------|------------|------|
| >                                     | 0           | 6    | 30   | 120  | 400  | 1000 | PENGKERJAAN LANJUT | NO. ORDER   |              | PROYEKSI   |            |      |
| <                                     | 6           | 30   | 120  | 400  | 1000 | 2000 |                    |             |              |            |            |      |
| TOL                                   | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                    |             |              |            |            |      |
| <b>SIKU PANJANG 160 MM KANAN ATAS</b> |             |      |      |      |      |      |                    |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                       |             |      |      |      |      |      |                    |             | 1 : 2        | DIPERIKSA  |            |      |
|                                       |             |      |      |      |      |      |                    |             |              | DISAHKAN   |            |      |
|                                       |             |      |      |      |      |      |                    |             | FORMAT       | NO. GAMBAR |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b>      |             |      |      |      |      |      |                    |             | <b>A4</b>    |            |            |      |



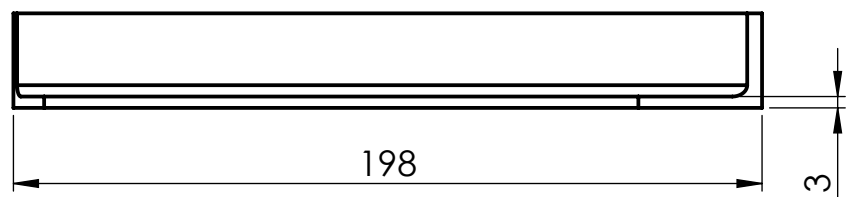
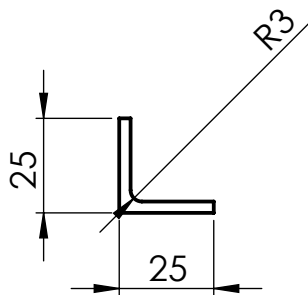
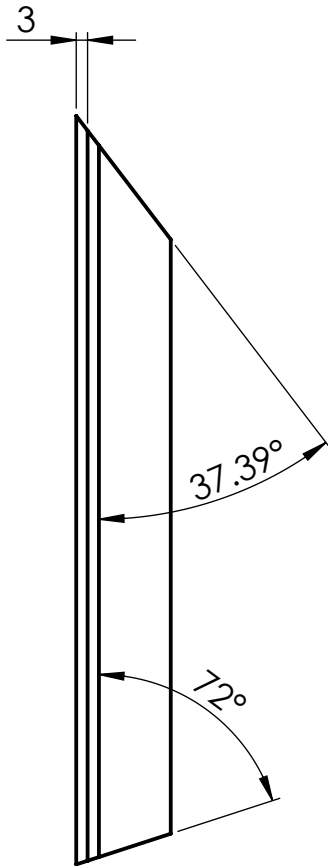
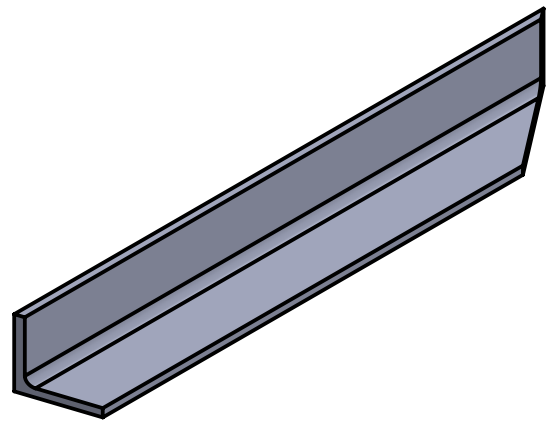
| JML                                 | NAMA BAGIAN |      |      |      |      |      | BAHAN              | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|-------------------------------------|-------------|------|------|------|------|------|--------------------|-------------|--------------|------------|------------|------|
| >                                   | 0           | 6    | 30   | 120  | 400  | 1000 | PENGKERJAAN LANJUT | NO. ORDER   |              |            |            |      |
| <                                   | 6           | 30   | 120  | 400  | 1000 | 2000 |                    |             |              |            |            |      |
| TOL                                 | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                    |             |              |            |            |      |
| <h2>SIKU PANJANG 160 KIRI ATAS</h2> |             |      |      |      |      |      |                    |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                     |             |      |      |      |      |      |                    |             | 1 : 2        | DIPERIKSA  |            |      |
|                                     |             |      |      |      |      |      |                    |             |              | DISAHKAN   |            |      |
|                                     |             |      |      |      |      |      |                    |             | FORMAT       | NO. GAMBAR |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b>    |             |      |      |      |      |      |                    |             | <b>A4</b>    |            |            |      |



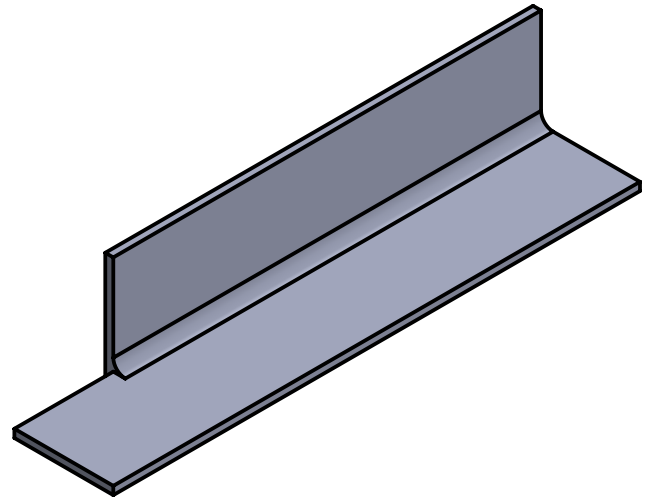
| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              |            |            |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |
| <b>SIKU PANJANG 160 MM</b>       |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   | DWIS       |
|                                  |             |      |      |      |      |      |                   |             | 1 : 2        | DIPERIKSA  |            |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |
|                                  |             |      |      |      |      |      |                   |             |              |            |            |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |
|                                  |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |



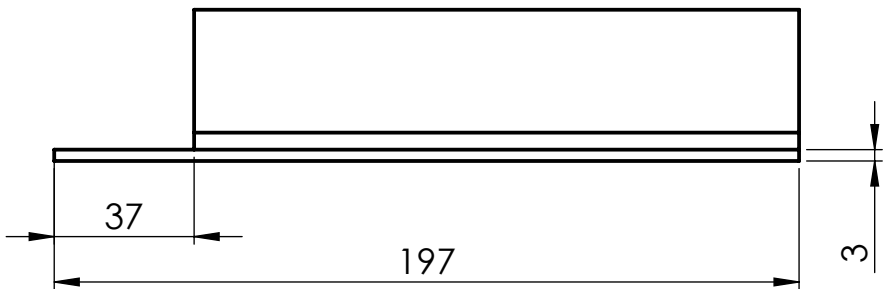
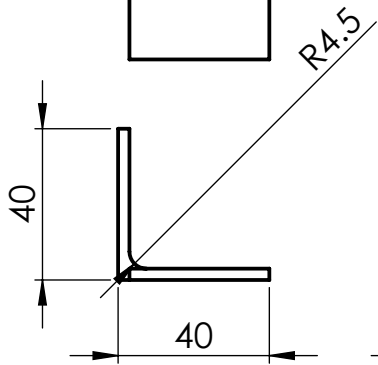
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|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|--------------|------------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI<br> |            |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |              |            |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |              |            |
| <b>SIKU PANJANG 198 KANAN</b>    |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR     | DWIS       |
|                                  |             |      |      |      |      |      |                   |             | 1 : 2        | DIPERIKSA    |            |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN     |            |
|                                  |             |      |      |      |      |      |                   |             |              |              |            |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR   |            |
|                                  |             |      |      |      |      |      |                   |             | <b>A4</b>    |              |            |



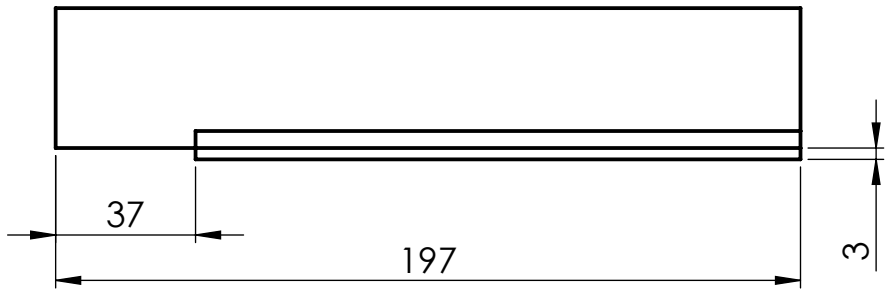
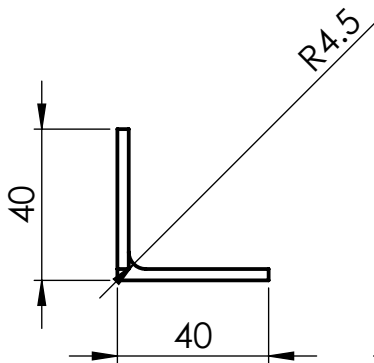
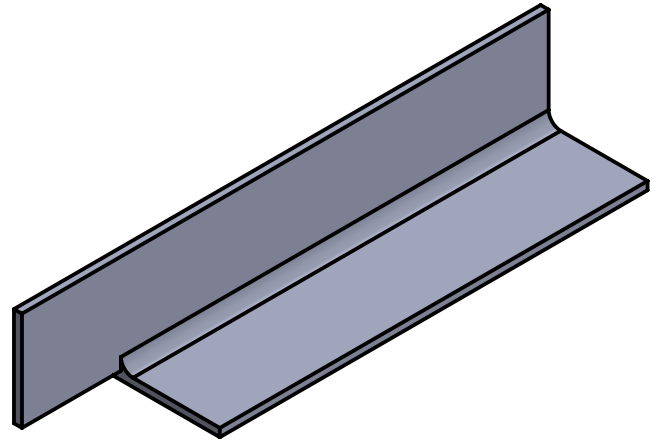
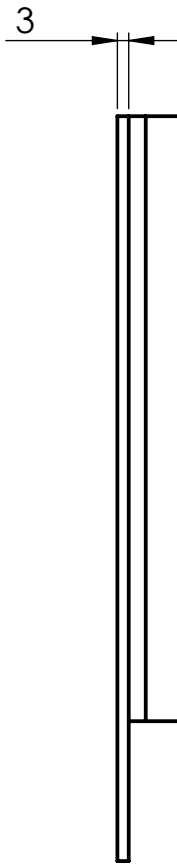
| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI   |            |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <b>SIKU PANJANG 198 MM KIRI</b>  |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             | 1 : 2        | DIPERIKSA  |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                  |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                  |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |      |



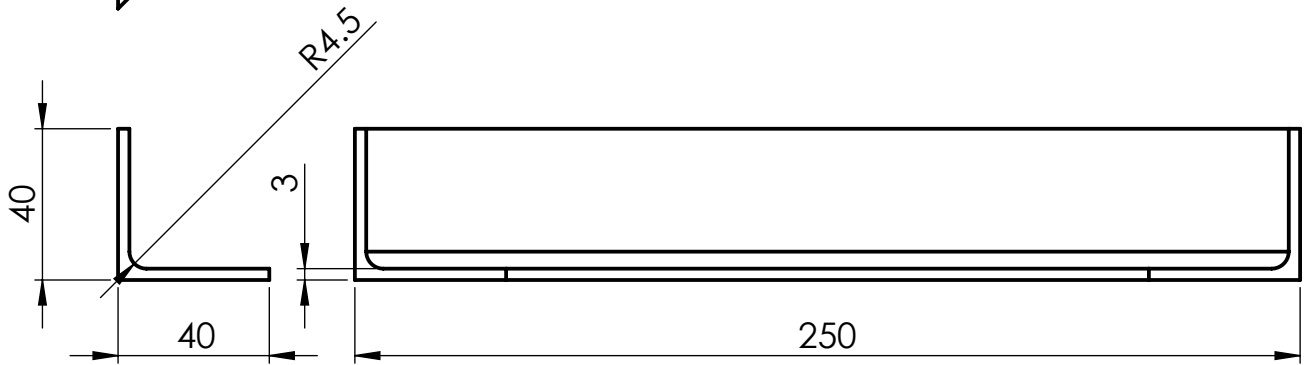
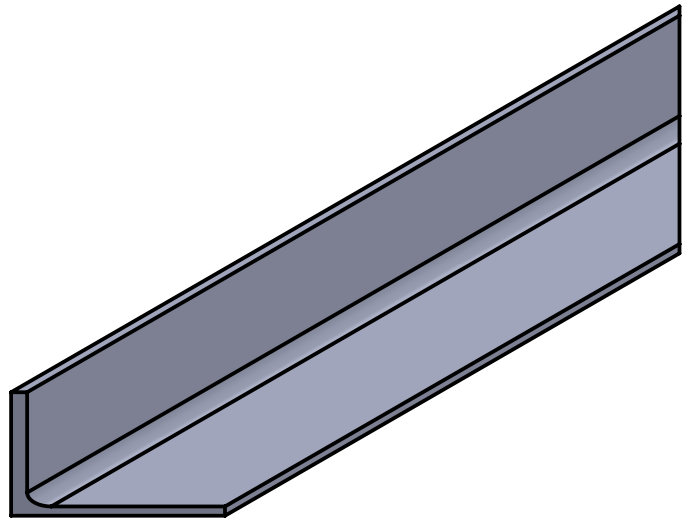
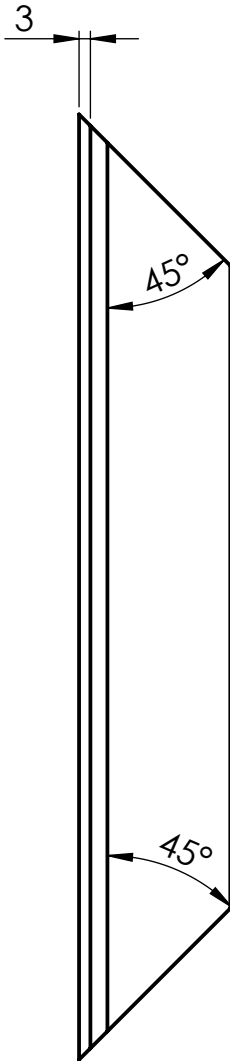
3



| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut |             | NO. ORDER    |            |            |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <b>SIKU PANJANG 120 MM KANAN</b> |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             | 1 : 2        | DIPERIKSA  |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                  |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                  |             |      |      |      |      |      |                   |             | A4           |            |            |      |

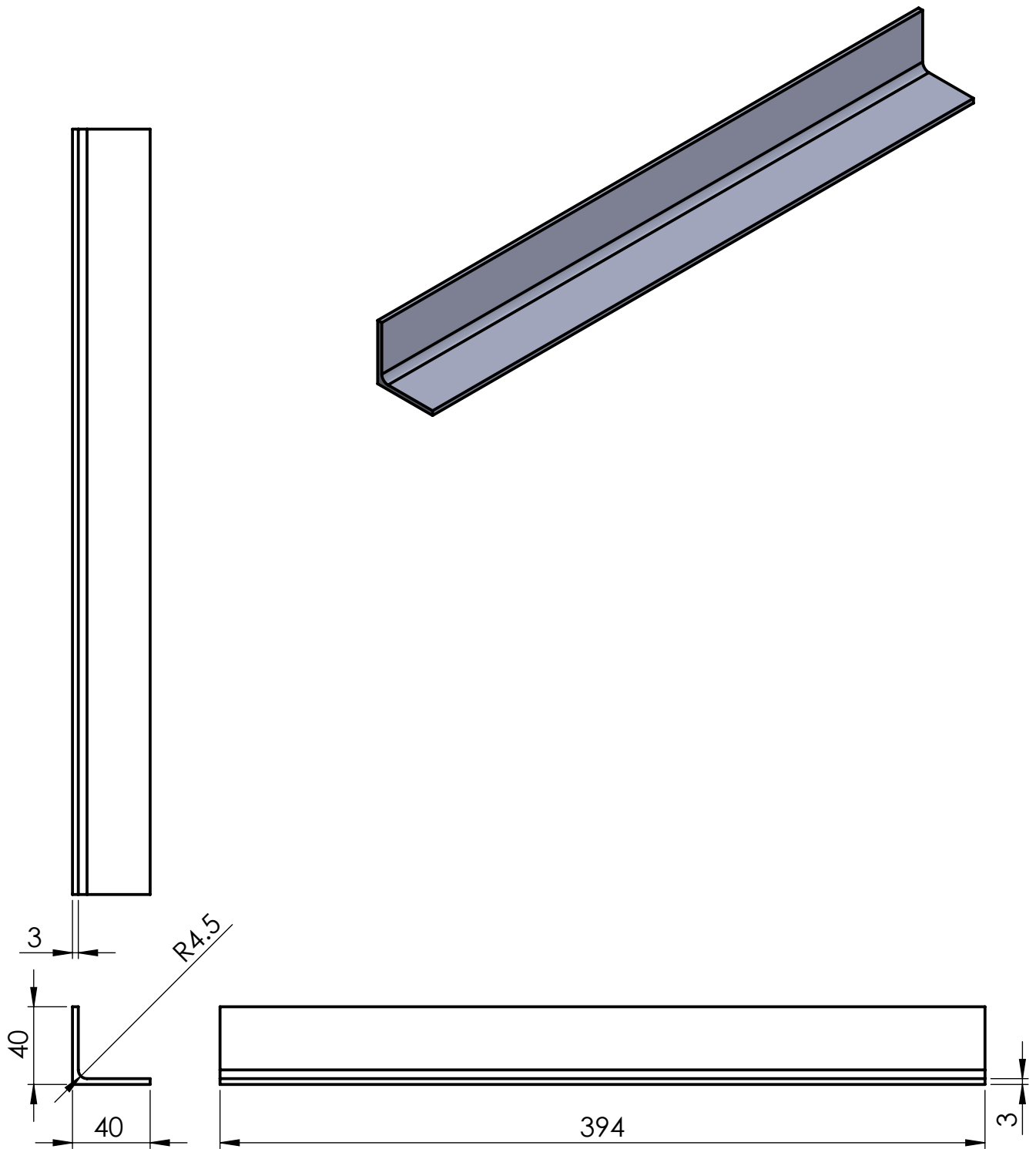


| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |  |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|--|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              |            |            |  |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |  |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |  |
| <b>SIKU PANJANG 200 MM KIRI</b>  |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            |  |
|                                  |             |      |      |      |      |      |                   |             | 1 : 2        | DIPERIKSA  |            |  |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |  |
|                                  |             |      |      |      |      |      |                   |             |              |            |            |  |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |  |
|                                  |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |  |

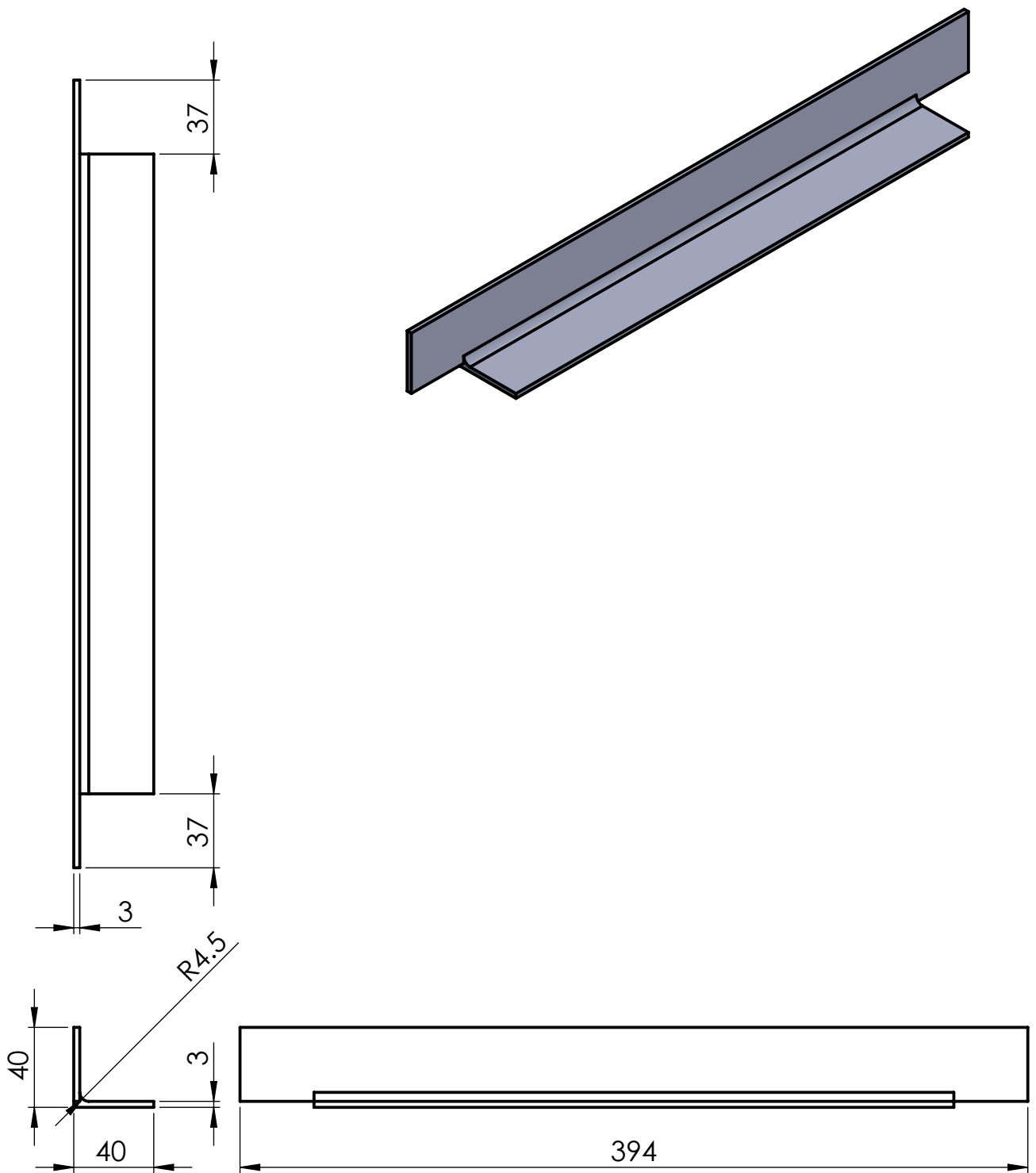


| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID            | KETERANGAN |  |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|-------------------|------------|--|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut |             | NO. ORDER    | PROYEKSI<br>DWG S |            |  |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |                   |            |  |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |                   |            |  |
| <b>SIKU PANJANG 250 MM</b>       |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR          |            |  |
|                                  |             |      |      |      |      |      |                   |             | 1 : 2        | DIPERIKSA         |            |  |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN          |            |  |
|                                  |             |      |      |      |      |      |                   |             |              |                   |            |  |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR        |            |  |
|                                  |             |      |      |      |      |      |                   |             | <b>A4</b>    |                   |            |  |

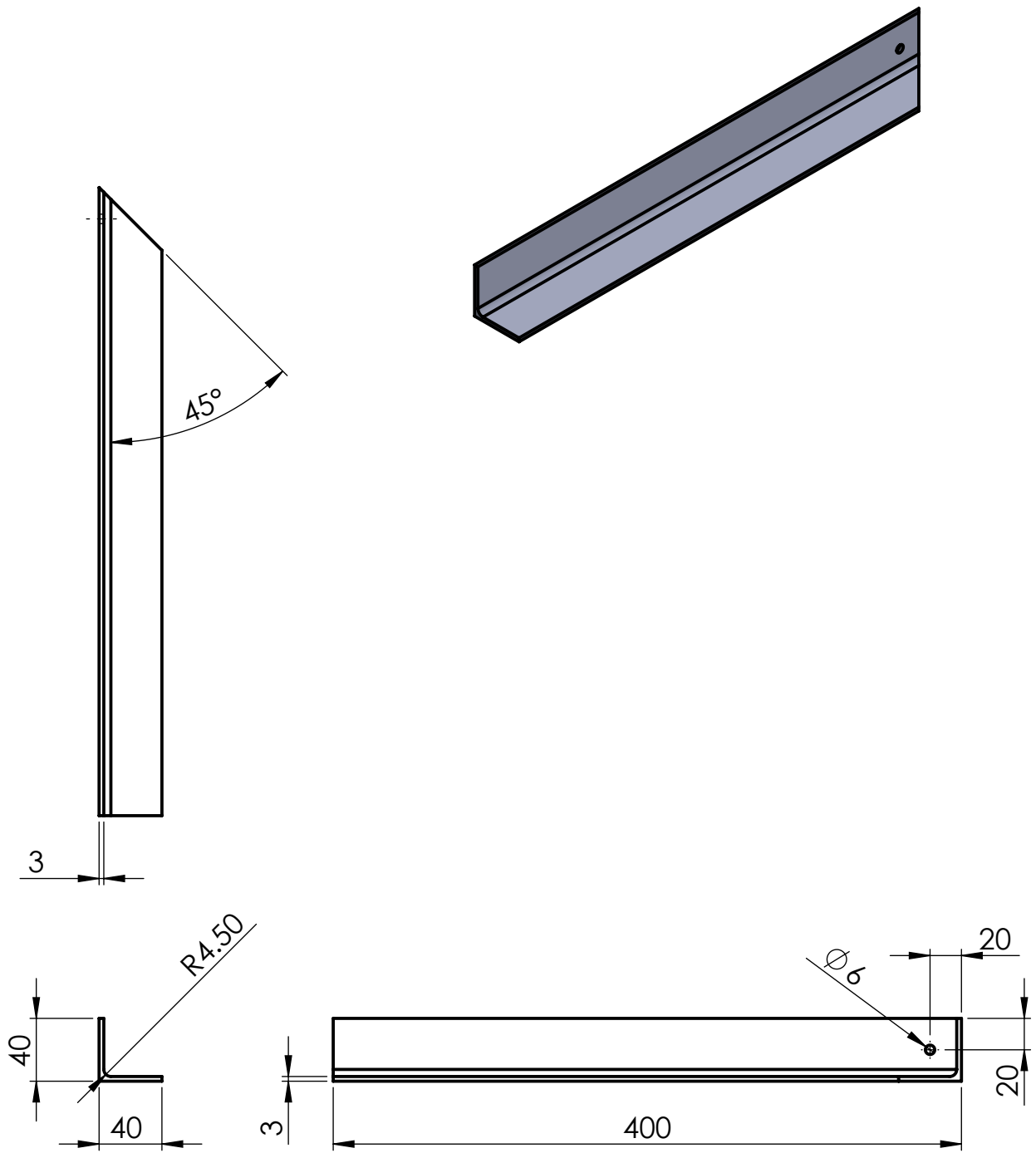




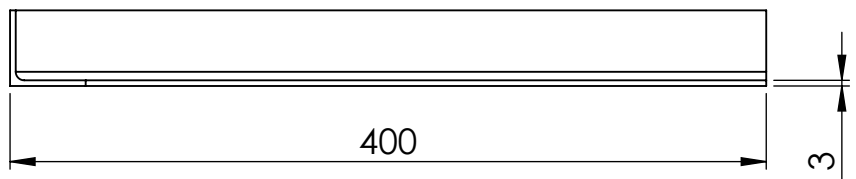
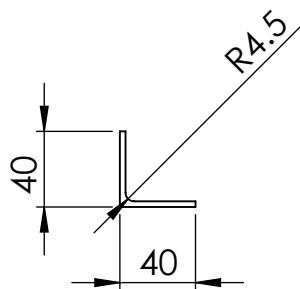
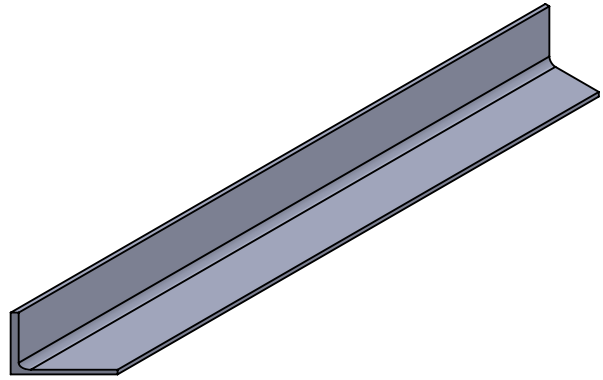
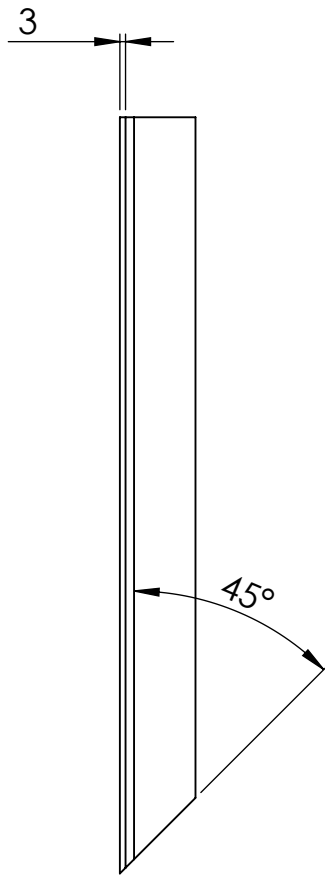
| JML                               | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|-----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                 | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut |             | NO. ORDER    | PROYEKSI   |            |      |
| <                                 | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                               | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <b>DUDUKAN PISAU GAGANG PISAU</b> |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                   |             |      |      |      |      |      |                   |             | 1 : 3        | DIPERIKSA  |            |      |
|                                   |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                   |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b>  |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                   |             |      |      |      |      |      |                   |             | A4           |            |            |      |



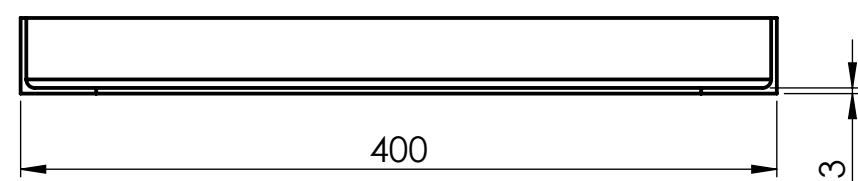
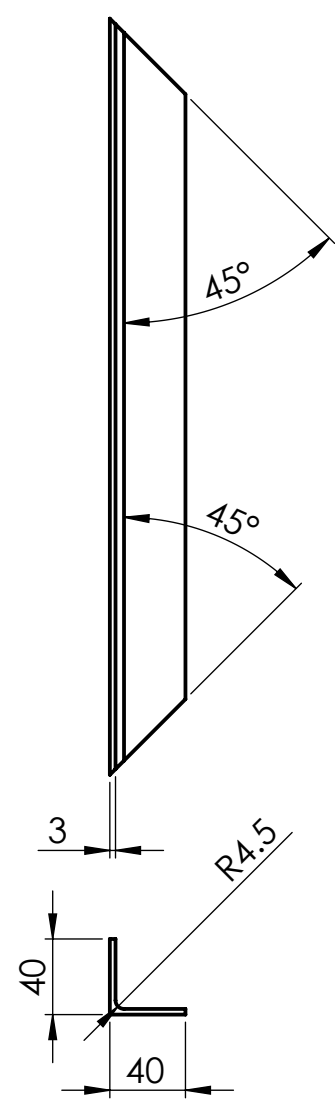
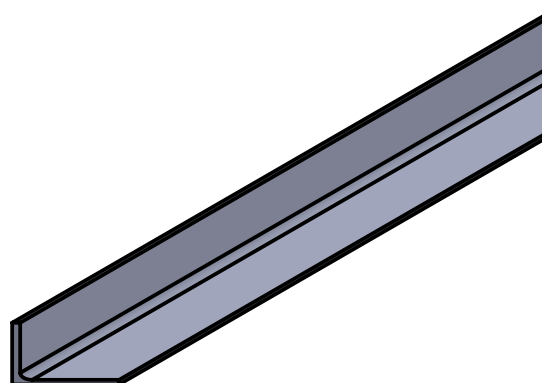
| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID       | KETERANGAN |      |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|--------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | PENGERJAAN LANJUT | NO. ORDER   |              | PROYEKSI<br> |            |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |              |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |              |            |      |
| <b>SIKU PANJANG 394 MM</b>       |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR     |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             | 1 : 3        | DIPERIKSA    |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN     |            |      |
|                                  |             |      |      |      |      |      |                   |             |              |              |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR   |            |      |
|                                  |             |      |      |      |      |      |                   |             | <b>A4</b>    |              |            |      |



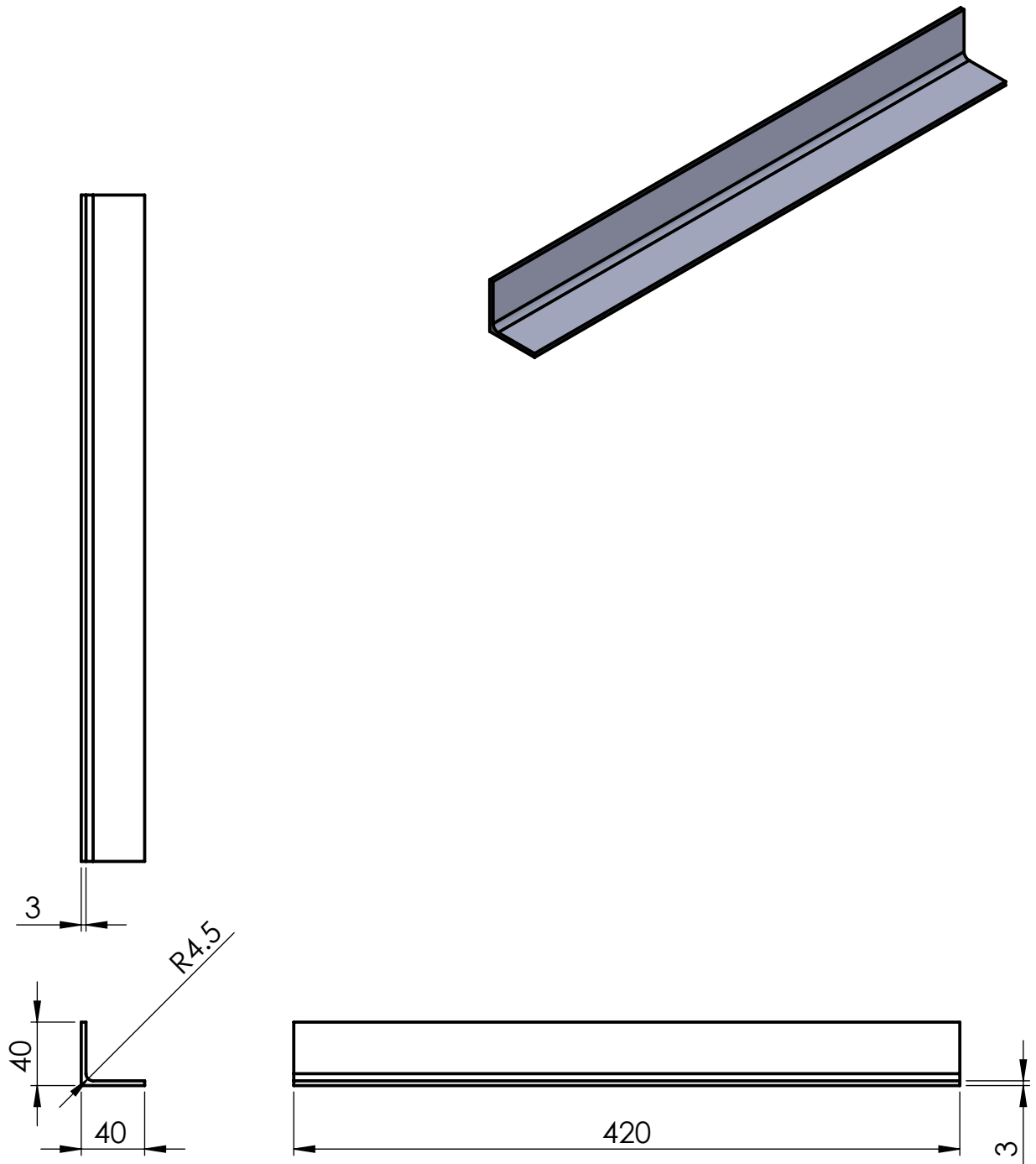
| JML                                   | NAMA BAGIAN |      |      |      |      |      | BAHAN              | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|---------------------------------------|-------------|------|------|------|------|------|--------------------|-------------|--------------|------------|------------|------|
| >                                     | 0           | 6    | 30   | 120  | 400  | 1000 | PENGKERJAAN LANJUT |             | NO. ORDER    | PROYEKSI   |            |      |
| <                                     | 6           | 30   | 120  | 400  | 1000 | 2000 |                    |             |              |            |            |      |
| TOL                                   | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                    |             |              |            |            |      |
| <b>SIKU PANJANG 400 MM KANAN ATAS</b> |             |      |      |      |      |      |                    |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                       |             |      |      |      |      |      |                    |             | 1 : 4        | DIPERIKSA  |            |      |
|                                       |             |      |      |      |      |      |                    |             |              | DISAHKAN   |            |      |
|                                       |             |      |      |      |      |      |                    |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b>      |             |      |      |      |      |      |                    |             | FORMAT       | NO. GAMBAR |            |      |
|                                       |             |      |      |      |      |      |                    |             | <b>A4</b>    |            |            |      |



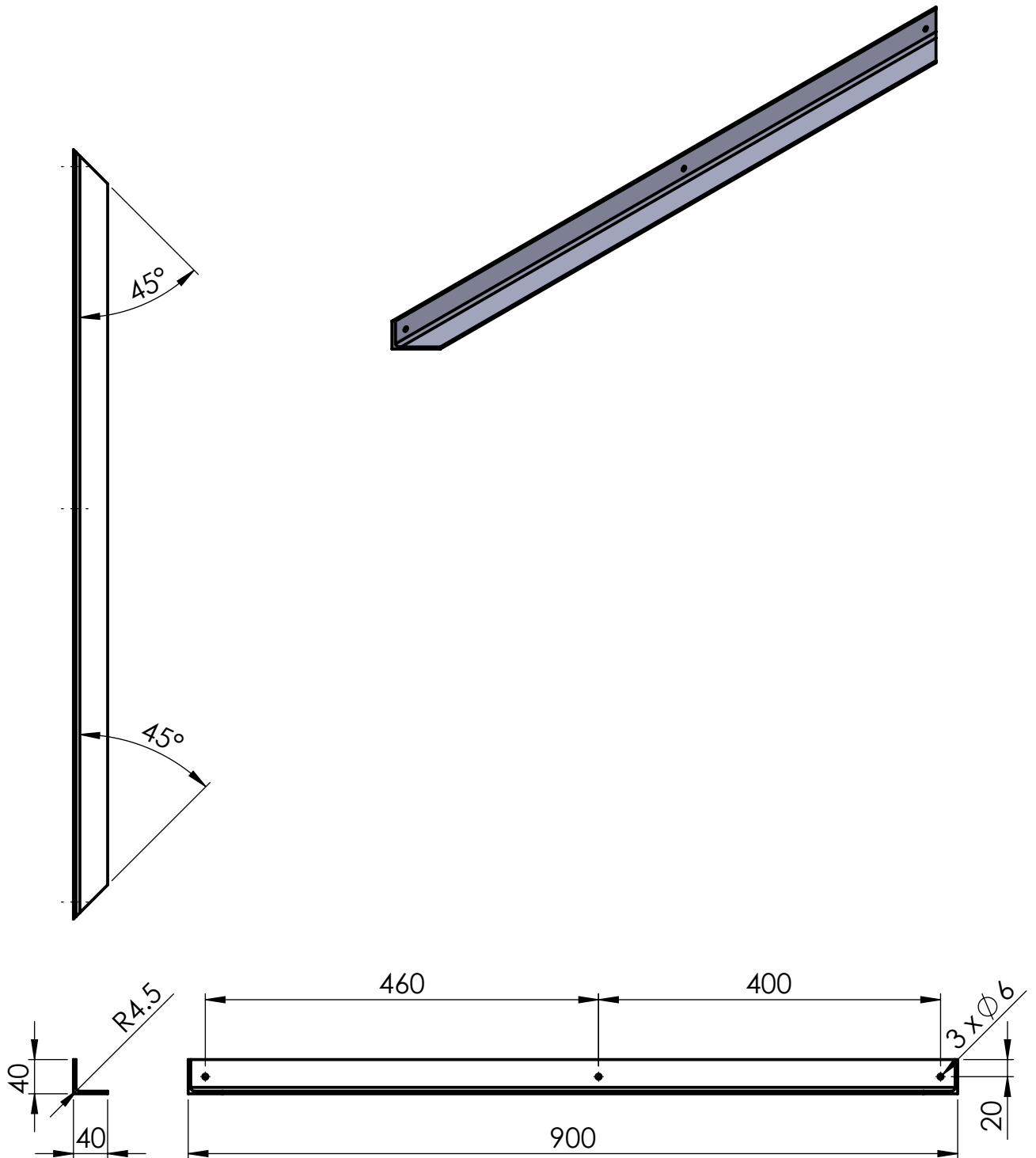
| JML                                  | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID       | KETERANGAN |      |
|--------------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|--------------|------------|------|
| >                                    | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI<br> |            |      |
| <                                    | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |              |            |      |
| TOL                                  | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |              |            |      |
| <b>SIKU PANJANG 400 MM KIRI ATAS</b> |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR     |            | DWIS |
|                                      |             |      |      |      |      |      |                   |             | 1 : 4        | DIPERIKSA    |            |      |
|                                      |             |      |      |      |      |      |                   |             |              | DISAHKAN     |            |      |
|                                      |             |      |      |      |      |      |                   |             |              |              |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b>     |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR   |            |      |
|                                      |             |      |      |      |      |      |                   |             | A4           |              |            |      |



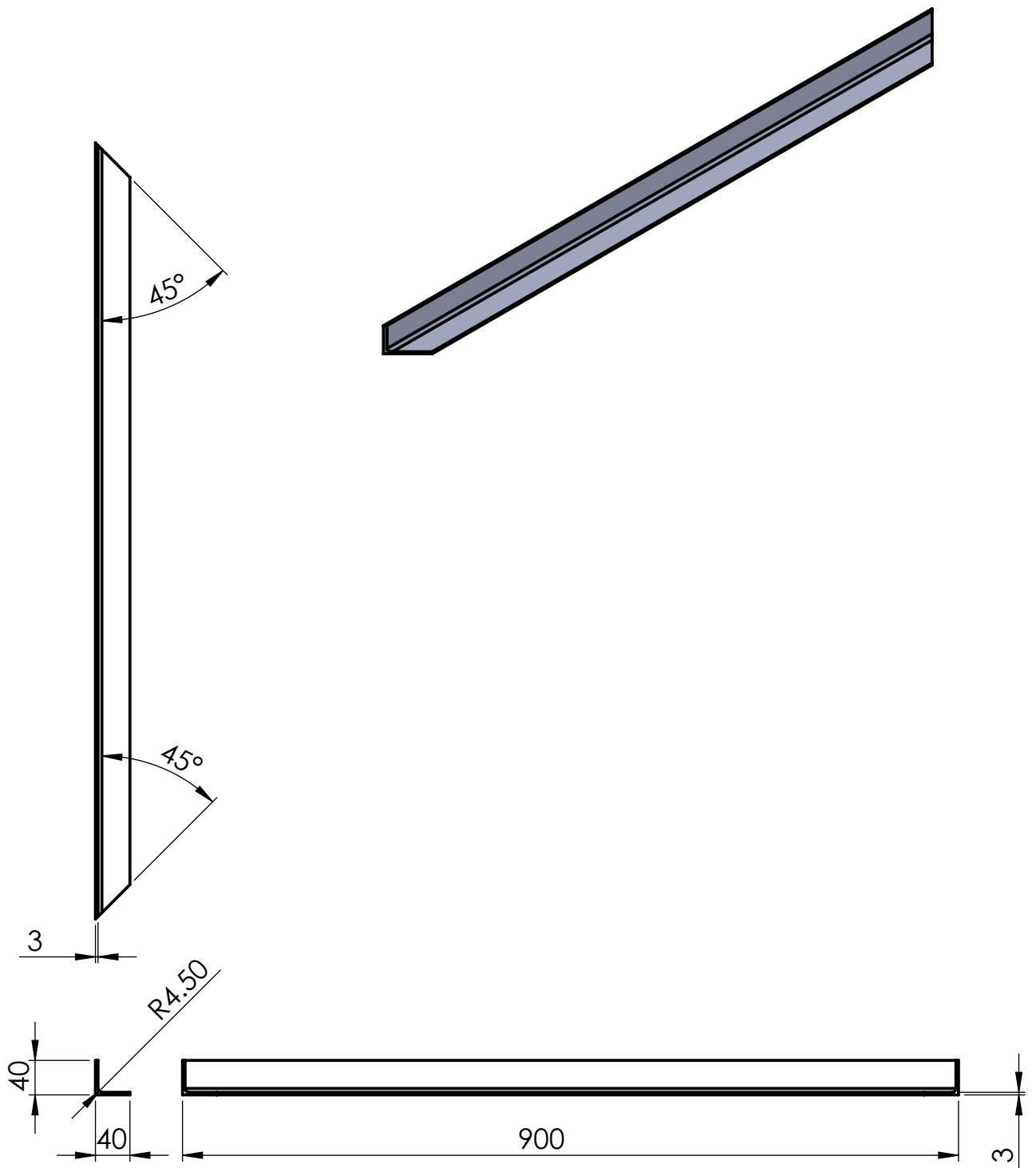
| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID       | KETERANGAN |      |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|--------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI<br> |            |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |              |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |              |            |      |
| <b>SIKU PANJANG 400 MM</b>       |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR     |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             | 1 : 4        | DIPERIKSA    |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN     |            |      |
|                                  |             |      |      |      |      |      |                   |             |              |              |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR   |            |      |
|                                  |             |      |      |      |      |      |                   |             | A4           |              |            |      |



| JML                                | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID       | KETERANGAN |      |
|------------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|--------------|------------|------|
| >                                  | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI<br> |            |      |
| <                                  | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |              |            |      |
| TOL                                | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |              |            |      |
| <b>COVER ATAS 1090 MM X 500 MM</b> |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR     |            | DWIS |
|                                    |             |      |      |      |      |      |                   |             | 1 : 10       | DIPERIKSA    |            |      |
|                                    |             |      |      |      |      |      |                   |             |              | DISAHKAN     |            |      |
|                                    |             |      |      |      |      |      |                   |             |              |              |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b>   |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR   |            |      |
|                                    |             |      |      |      |      |      |                   |             | A4           |              |            |      |

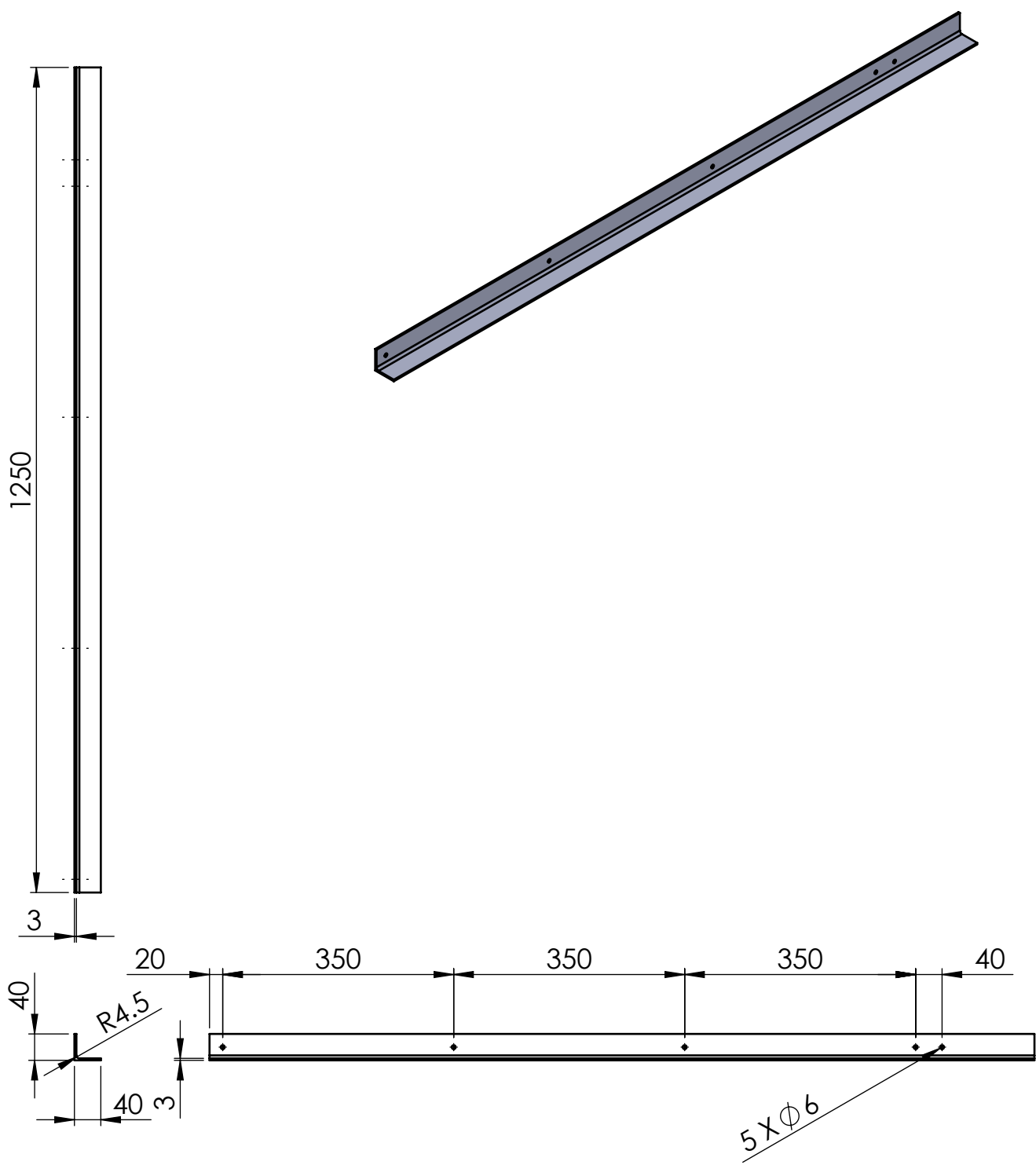


| JML                                 | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|-------------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                   | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI   |            |      |
| <                                   | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                                 | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <b>SIKU PANJANG 900 MM (LUBANG)</b> |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                     |             |      |      |      |      |      |                   |             | 1 : 7        | DIPERIKSA  |            |      |
|                                     |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                     |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b>    |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                     |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |      |

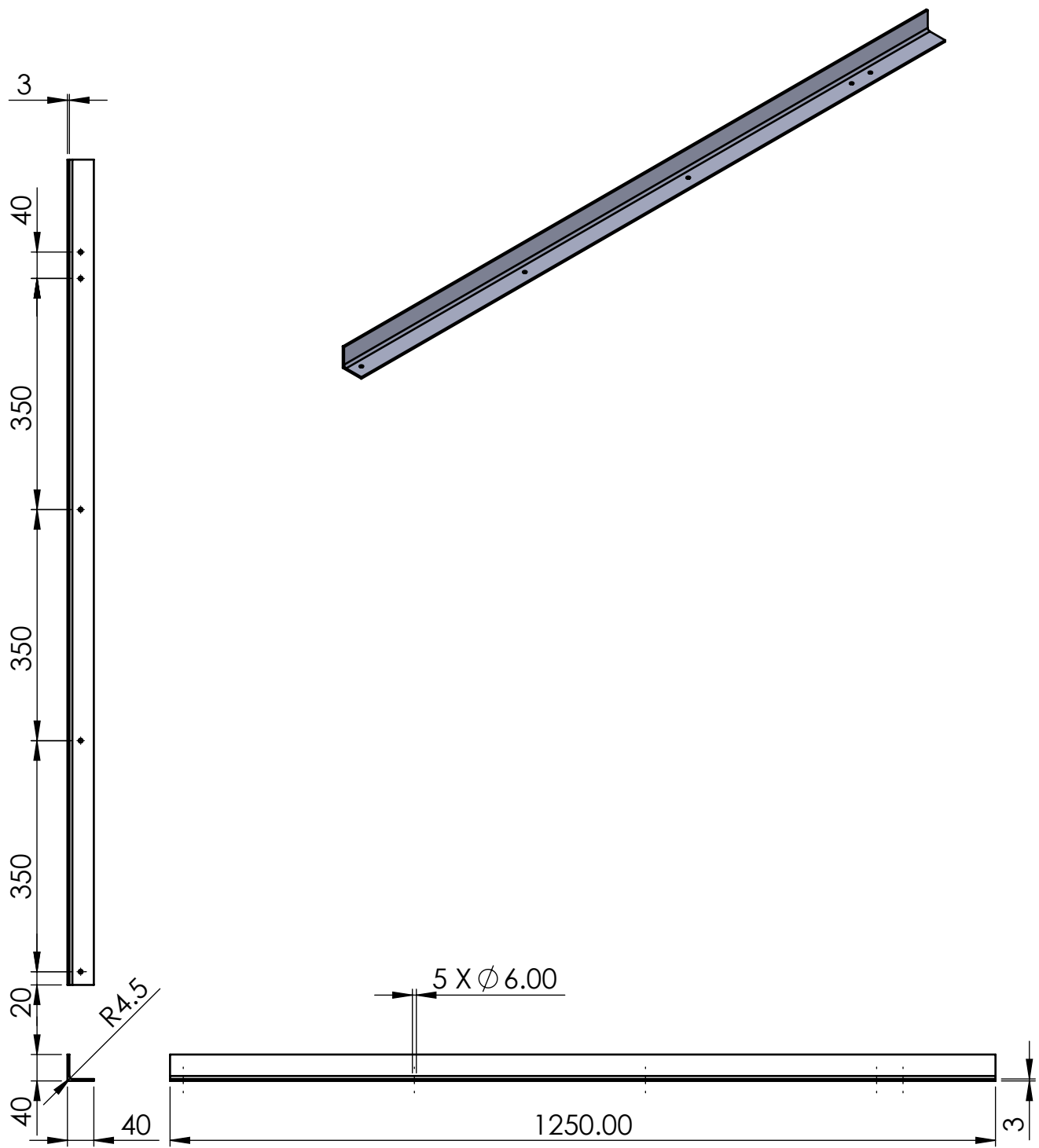


| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI   |            |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <b>SIKU PANJANG 900 MM</b>       |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             | 1 : 7        | DIPERIKSA  |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                  |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                  |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |      |

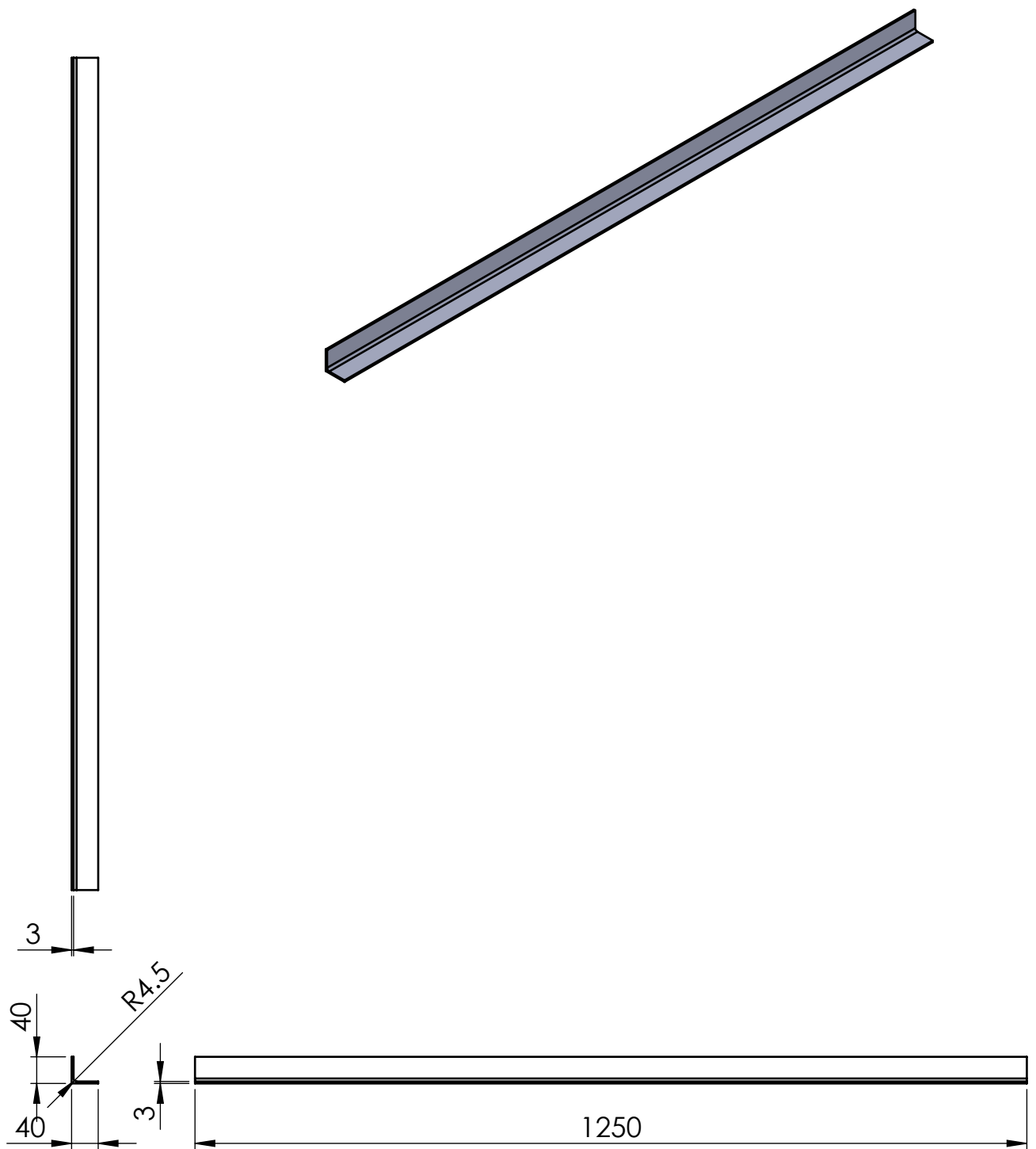




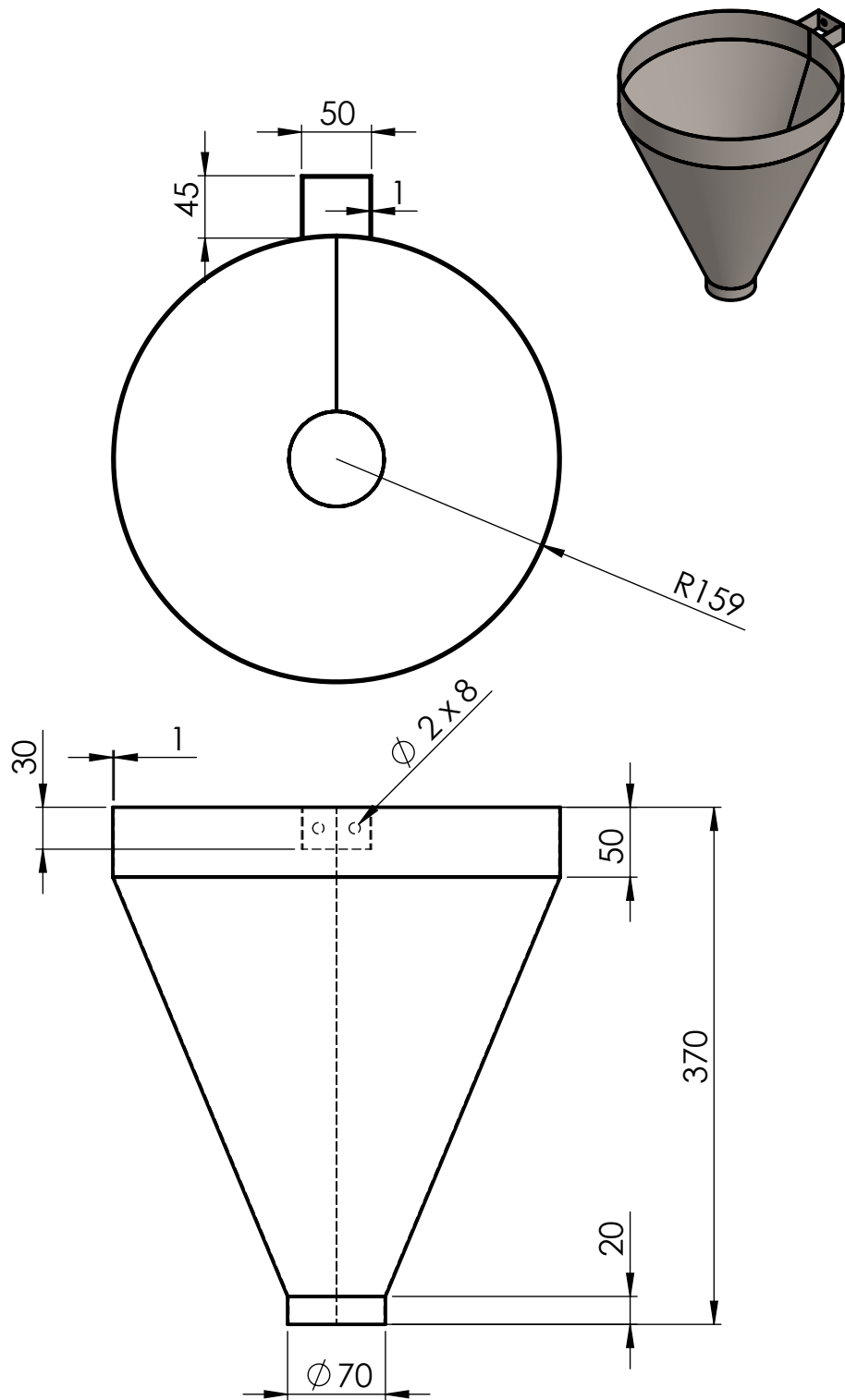
| JML  | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|--|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >  | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              |            |            |      |
| <  | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL  | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <b>SIKU PANJANG 1250 MM<br/>(LUBANG 1)</b> |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|  |             |      |      |      |      |      |                   |             | 1 : 9        | DIPERIKSA  |            |      |
|  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|  |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b>           |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |      |



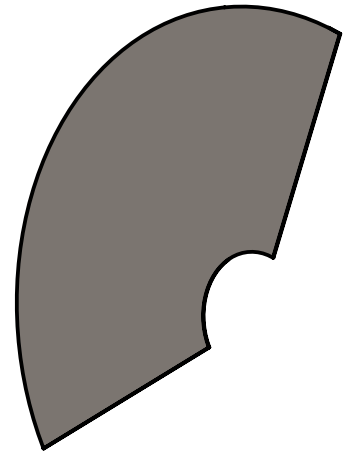
| JML  | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID       | KETERANGAN |      |
|--|-------------|------|------|------|------|------|-------------------|-------------|--------------|--------------|------------|------|
| >  | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI<br> |            |      |
| <  | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |              |            |      |
| TOL  | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |              |            |      |
| <b>SIKU PANJANG 1250 MM<br/>(LUBANG 2)</b> |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR     |            | DWIS |
|  |             |      |      |      |      |      |                   |             | 1 : 9        | DIPERIKSA    |            |      |
|  |             |      |      |      |      |      |                   |             |              | DISAHKAN     |            |      |
|  |             |      |      |      |      |      |                   |             |              |              |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b>           |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR   |            |      |
|  |             |      |      |      |      |      |                   |             | <b>A4</b>    |              |            |      |



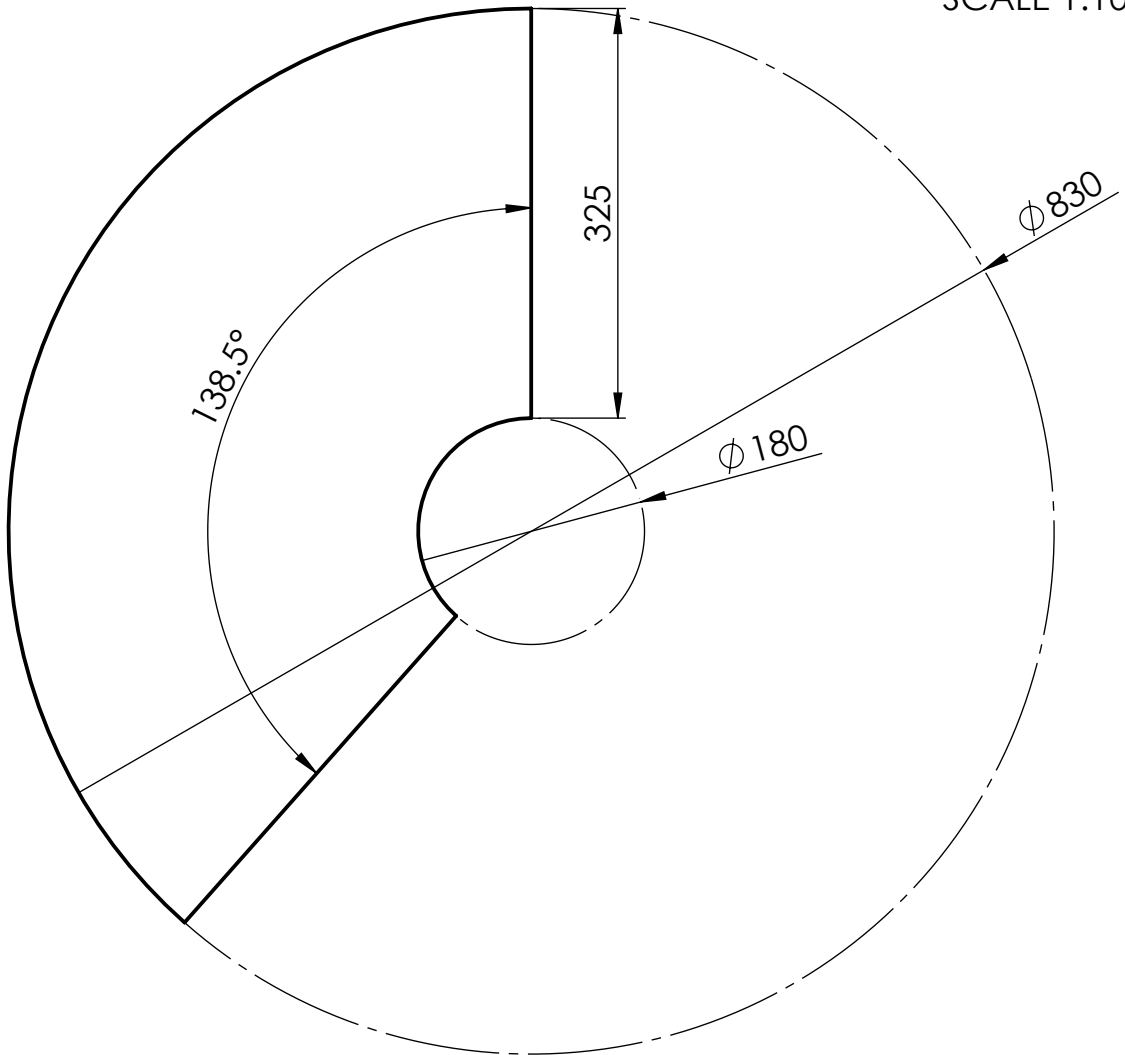
| JML                         | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR                     | NO. ID    | KETERANGAN |       |
|-----------------------------|-------------|------|------|------|------|------|-------------------|-------------|----------------------------------|-----------|------------|-------|
| >                           | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut |             | NO. ORDER                        | PROYEKSI  |            |       |
| <                           | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |                                  |           |            |       |
| TOL                         | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |                                  |           |            |       |
| <b>SIKU PANJANG 1250 MM</b> |             |      |      |      |      |      |                   |             | SKALA                            | DIGAMBAR  |            | DWI S |
|                             |             |      |      |      |      |      |                   |             | 1 : 9                            | DIPERIKSA |            |       |
|                             |             |      |      |      |      |      |                   |             |                                  | DISAHKAN  |            |       |
|                             |             |      |      |      |      |      |                   |             | <b>POLITEKNIK NEGERI CILACAP</b> |           |            |       |
| <b>A4</b>                   |             |      |      |      |      |      |                   |             |                                  |           |            |       |



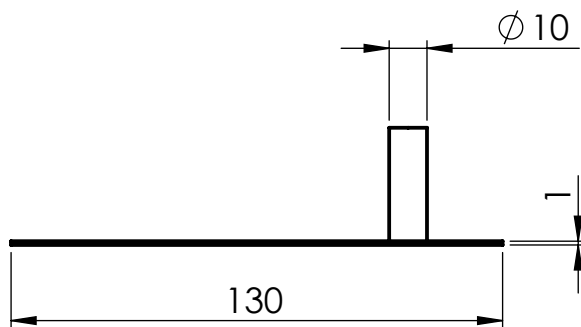
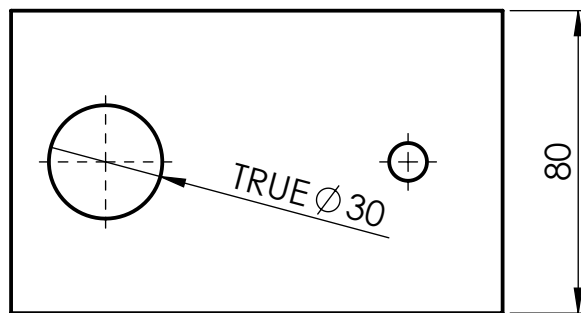
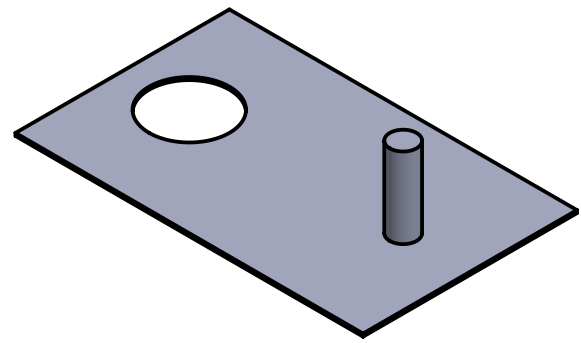
| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut |             | NO. ORDER    | PROYEKSI   |            |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <b>HOPPER</b>                    |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             | 1 : 10       | DIPERIKSA  |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                  |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                  |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |      |



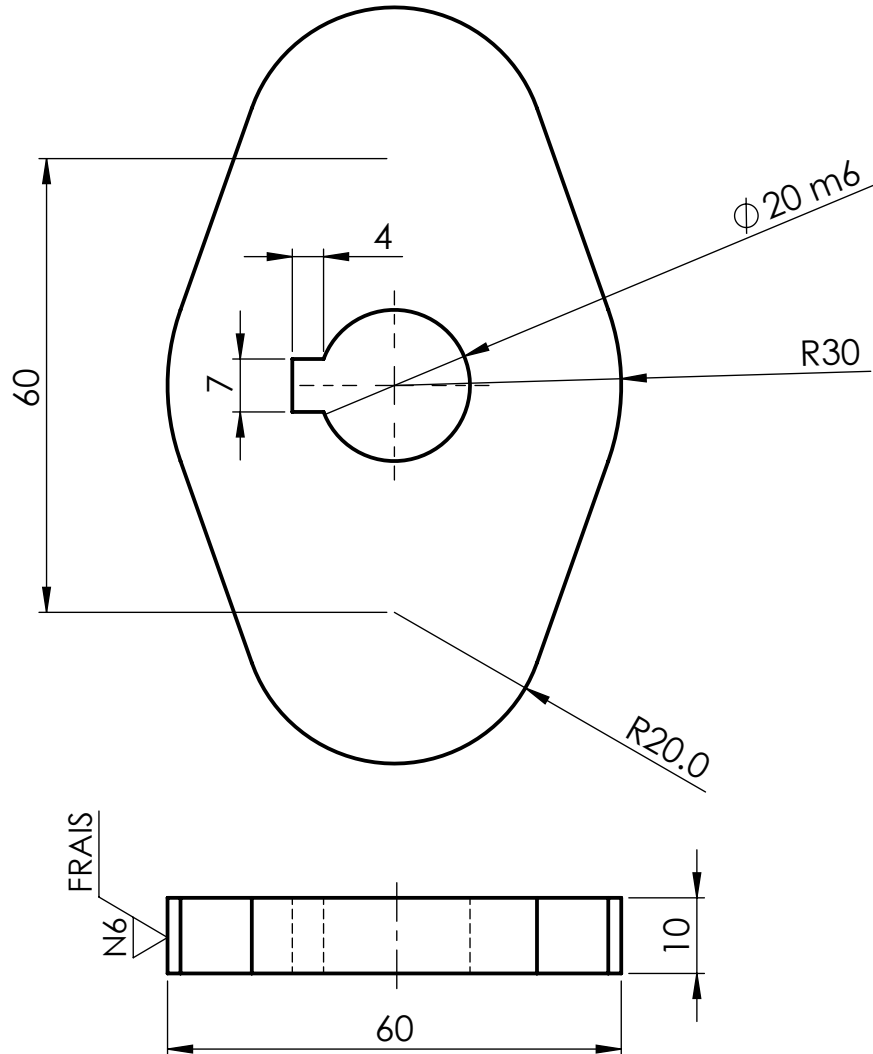
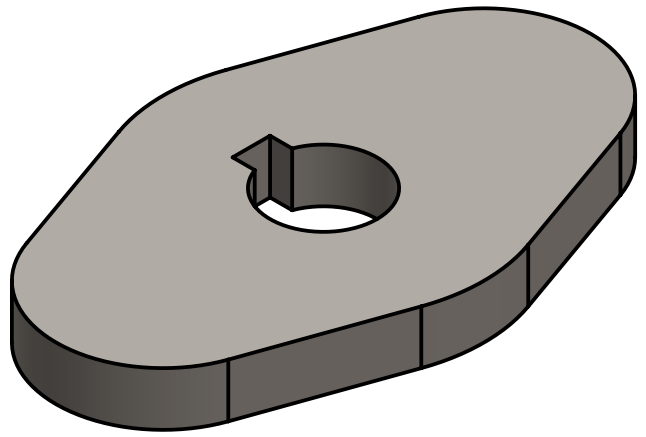
SCALE 1:10



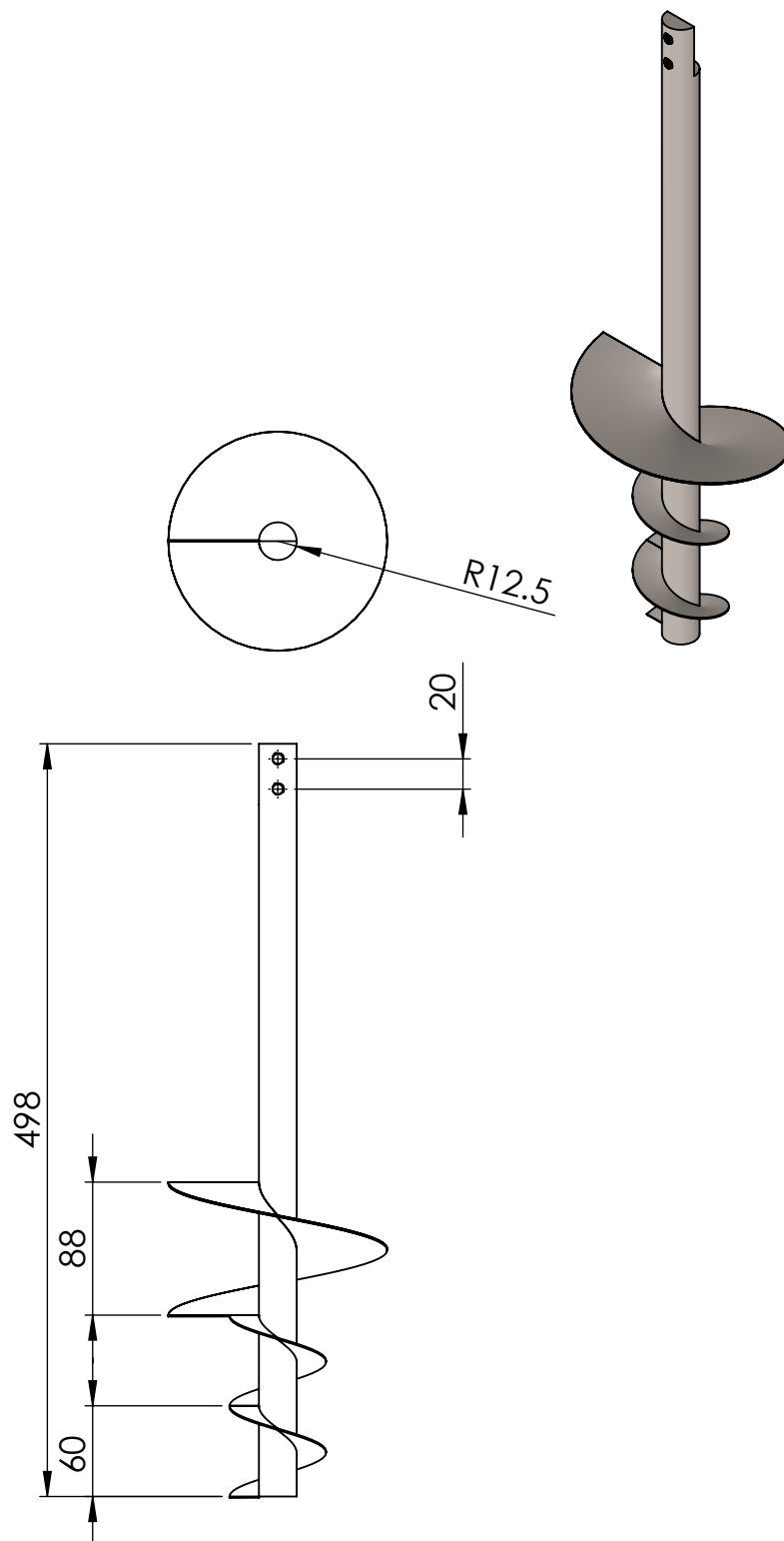
| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut |             | NO. ORDER    |            | PROYEKSI   |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <h1>BENTANGAN HOPPER</h1>        |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             | 1 : 6        | DIPERIKSA  |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                  |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |      |



| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              |            |            |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <h1>PISAU PEMOTONG</h1>          |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             | 1 : 2        | DIPERIKSA  |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                  |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                  |             |      |      |      |      |      |                   |             | A4           |            |            |      |

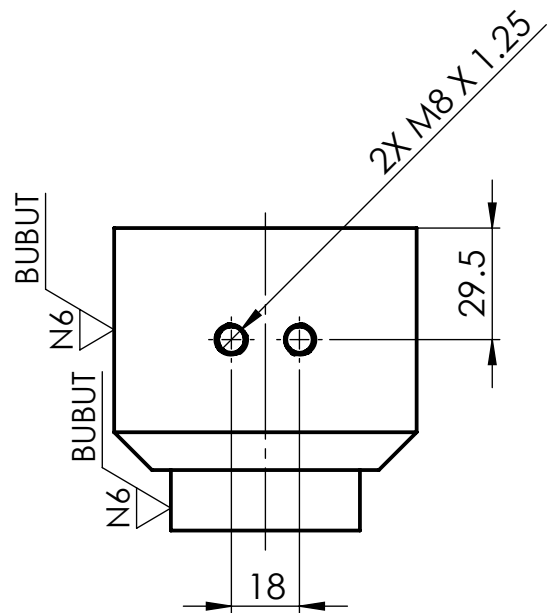
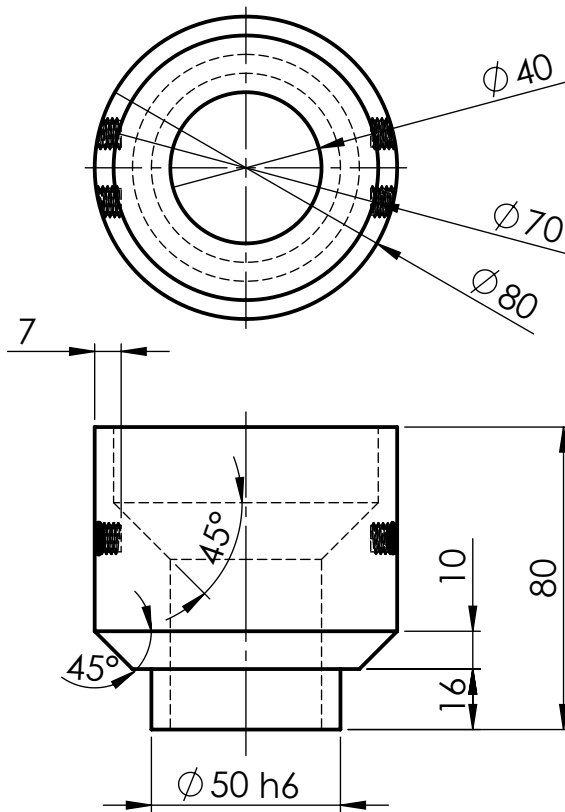
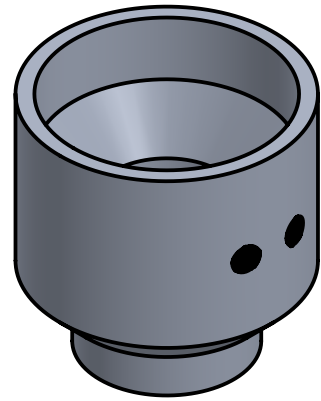


| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI   |            |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <b>CAM</b>                       |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             | 1 : 2        | DIPERIKSA  |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                  |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                  |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |      |

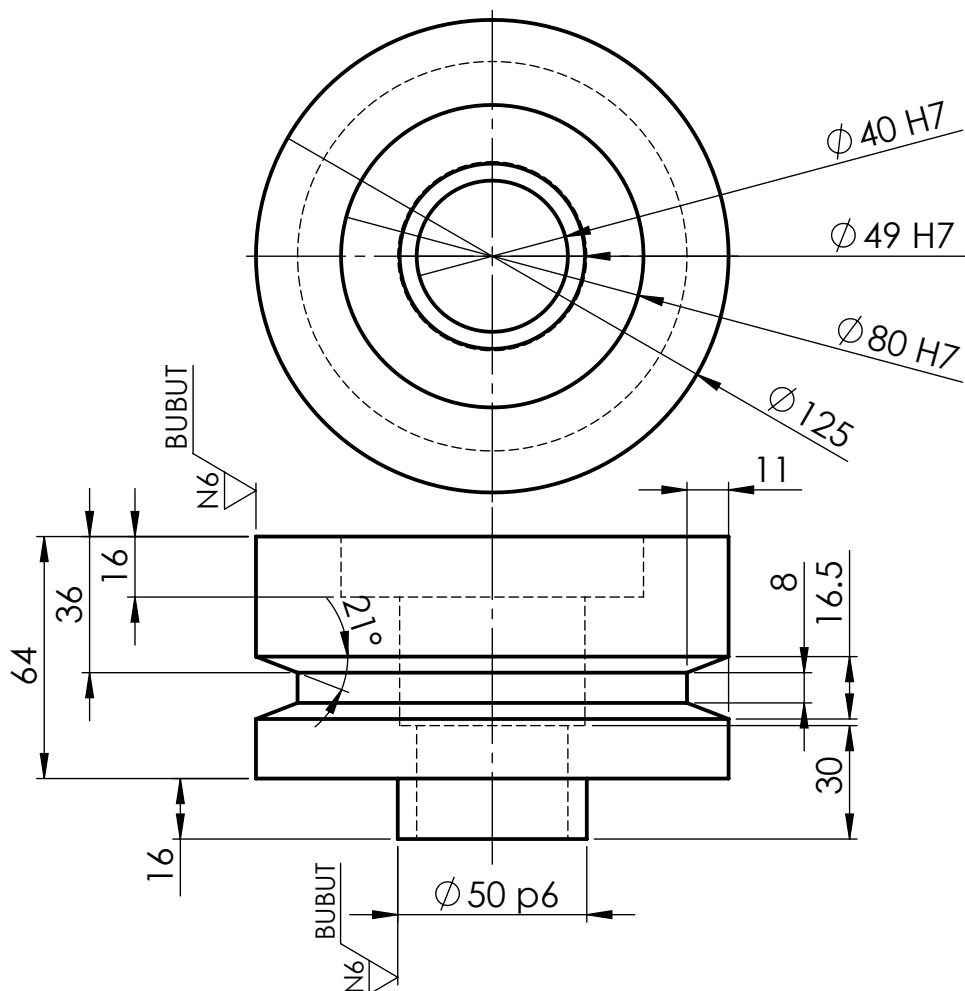
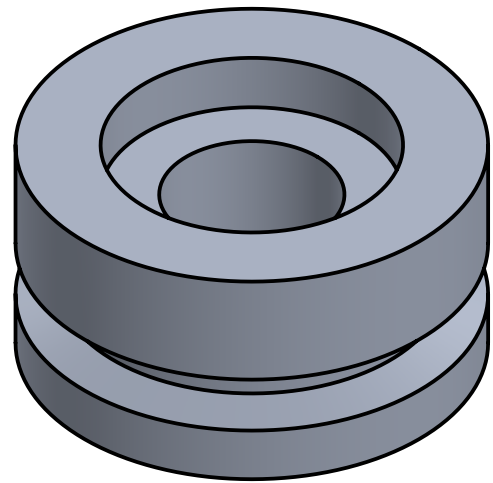


| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut |             | NO. ORDER    | PROYEKSI   |            |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <b>SCREW</b>                     |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             | 1 : 10       | DIPERIKSA  |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                  |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                  |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |      |

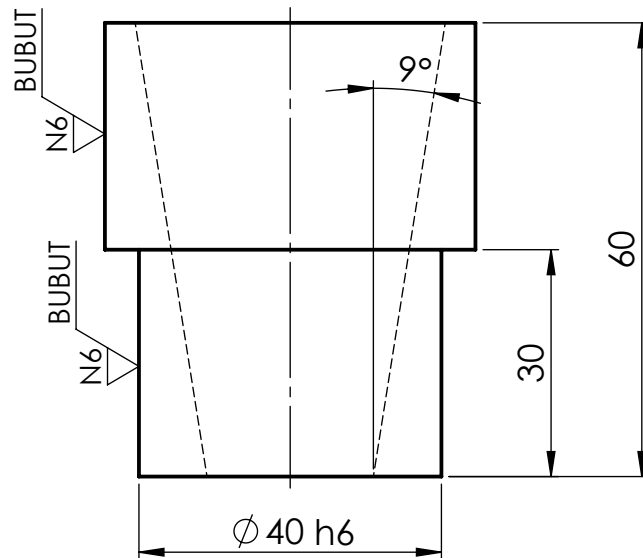
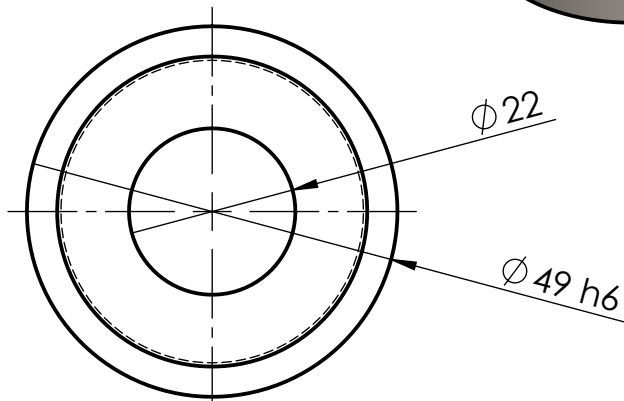
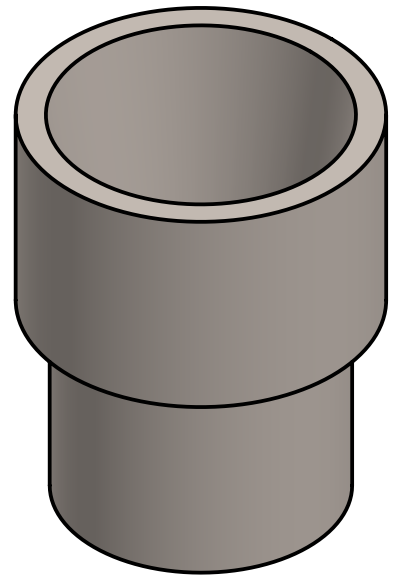




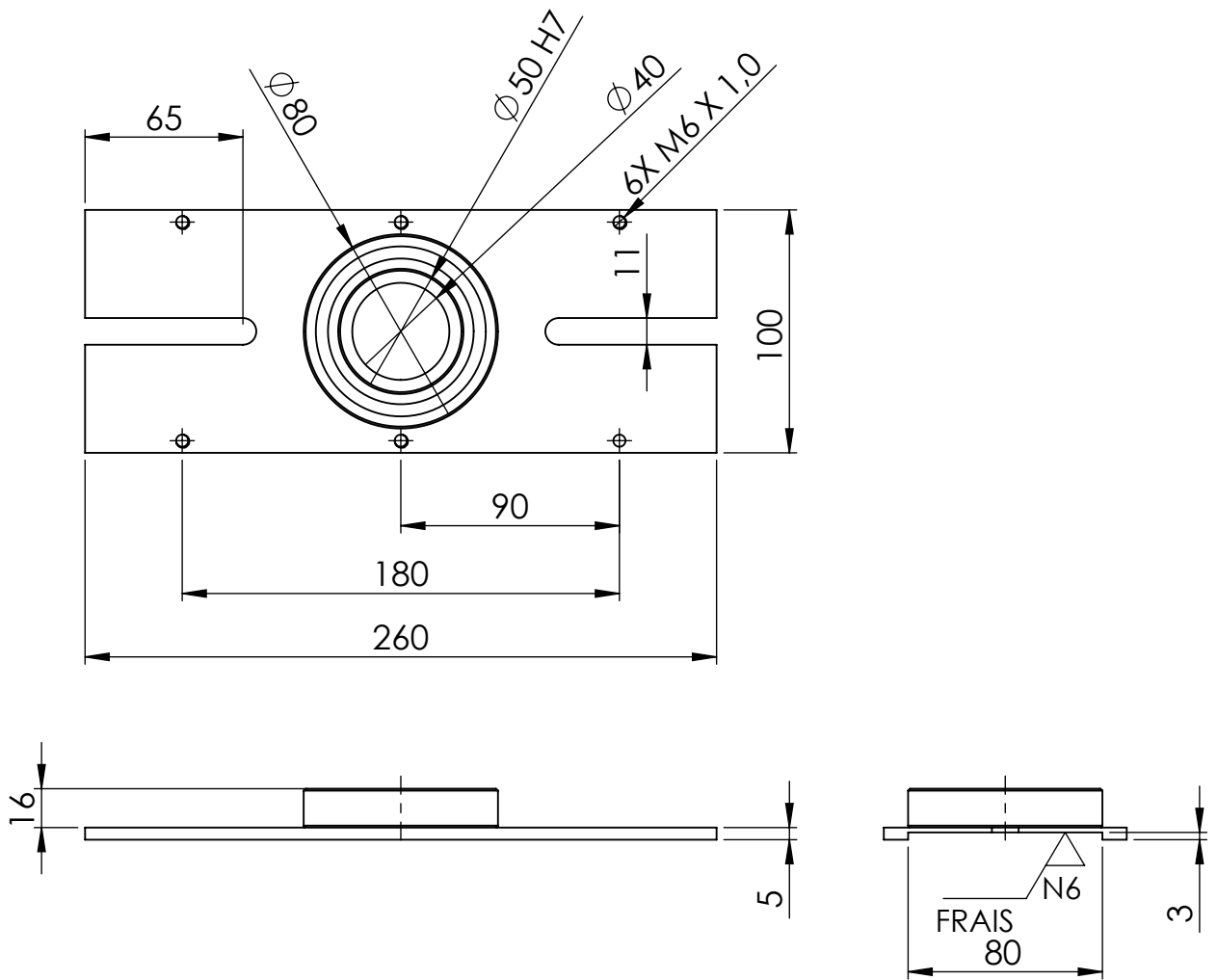
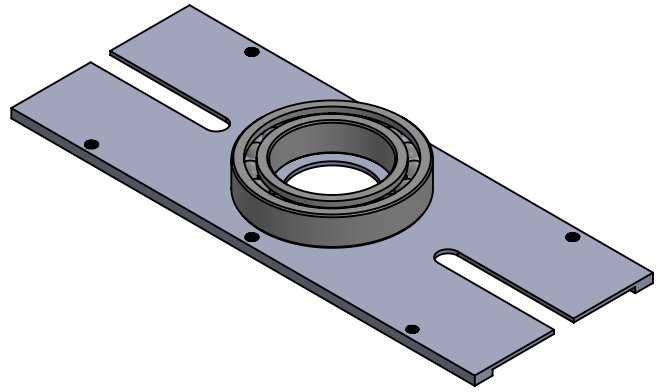
| JML                     | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI                      | UKURAN KASAR | NO. ID            | KETERANGAN |  |
|-------------------------|-------------|------|------|------|------|------|-------------------|----------------------------------|--------------|-------------------|------------|--|
| >                       | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER                        |              | PROYEKSI<br>DWI S |            |  |
| <                       | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |                                  |              |                   |            |  |
| TOL                     | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |                                  |              |                   |            |  |
| <h1>DUDUKAN HOPPER</h1> |             |      |      |      |      |      |                   | SKALA                            | DIGAMBAR     |                   |            |  |
|                         |             |      |      |      |      |      |                   | 1 : 2                            | DIPERIKSA    |                   |            |  |
|                         |             |      |      |      |      |      |                   |                                  | DISAHKAN     |                   |            |  |
|                         |             |      |      |      |      |      |                   | <b>POLITEKNIK NEGERI CILACAP</b> |              |                   |            |  |
| <b>A4</b>               |             |      |      |      |      |      |                   |                                  |              |                   |            |  |



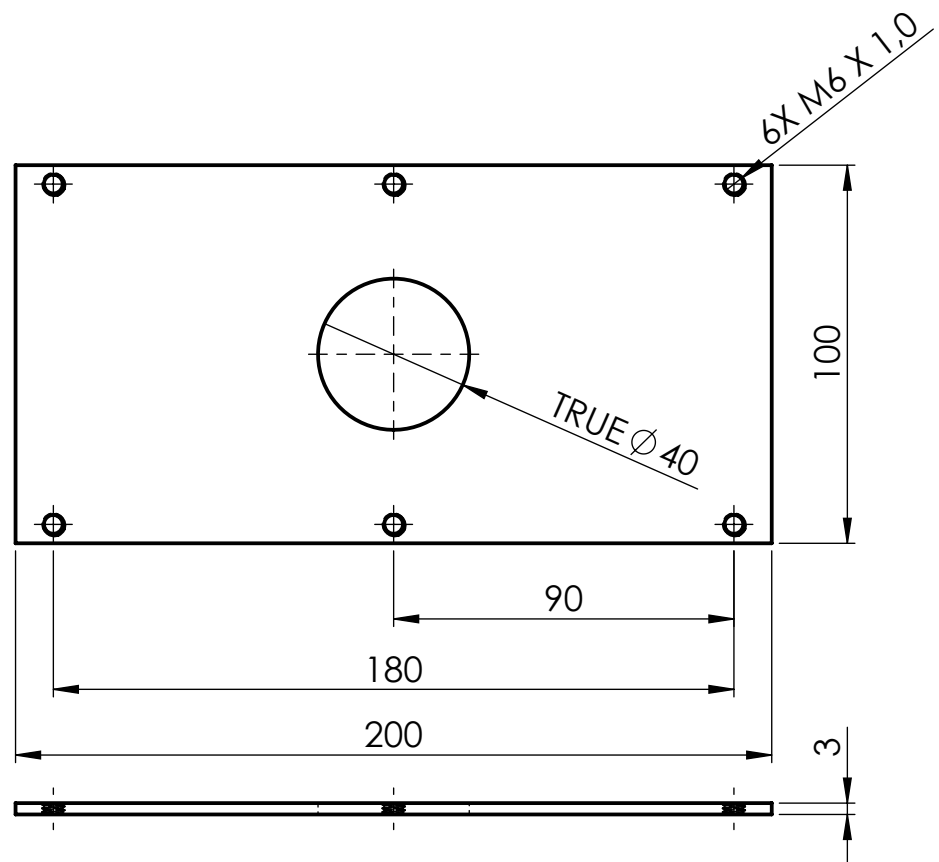
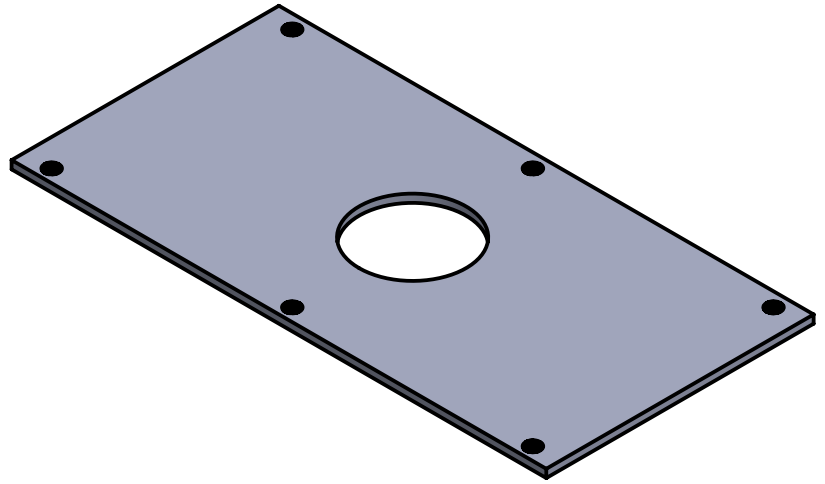
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|----------------------------------|-------------|-----------|-----------|-----------|-----------|-----------|-------------------|-------------|--------------|------------|------------|------|
| >                                | 0           | 6         | 30        | 120       | 400       | 1000      | PENGERJAAN LANJUT |             | NO. ORDER    | PROYEKSI   |            |      |
| <                                | 6           | 30        | 120       | 400       | 1000      | 2000      |                   |             |              |            |            |      |
| TOL                              | $\pm 0.1$   | $\pm 0.2$ | $\pm 0.3$ | $\pm 0.5$ | $\pm 0.8$ | $\pm 1.2$ |                   |             |              |            |            |      |
| <b>NOZZLE</b>                    |             |           |           |           |           |           |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                  |             |           |           |           |           |           |                   |             | 1 : 2        | DIPERIKSA  |            |      |
|                                  |             |           |           |           |           |           |                   |             |              | DISAHKAN   |            |      |
|                                  |             |           |           |           |           |           |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |           |           |           |           |           |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                  |             |           |           |           |           |           |                   |             | <b>A4</b>    |            |            |      |



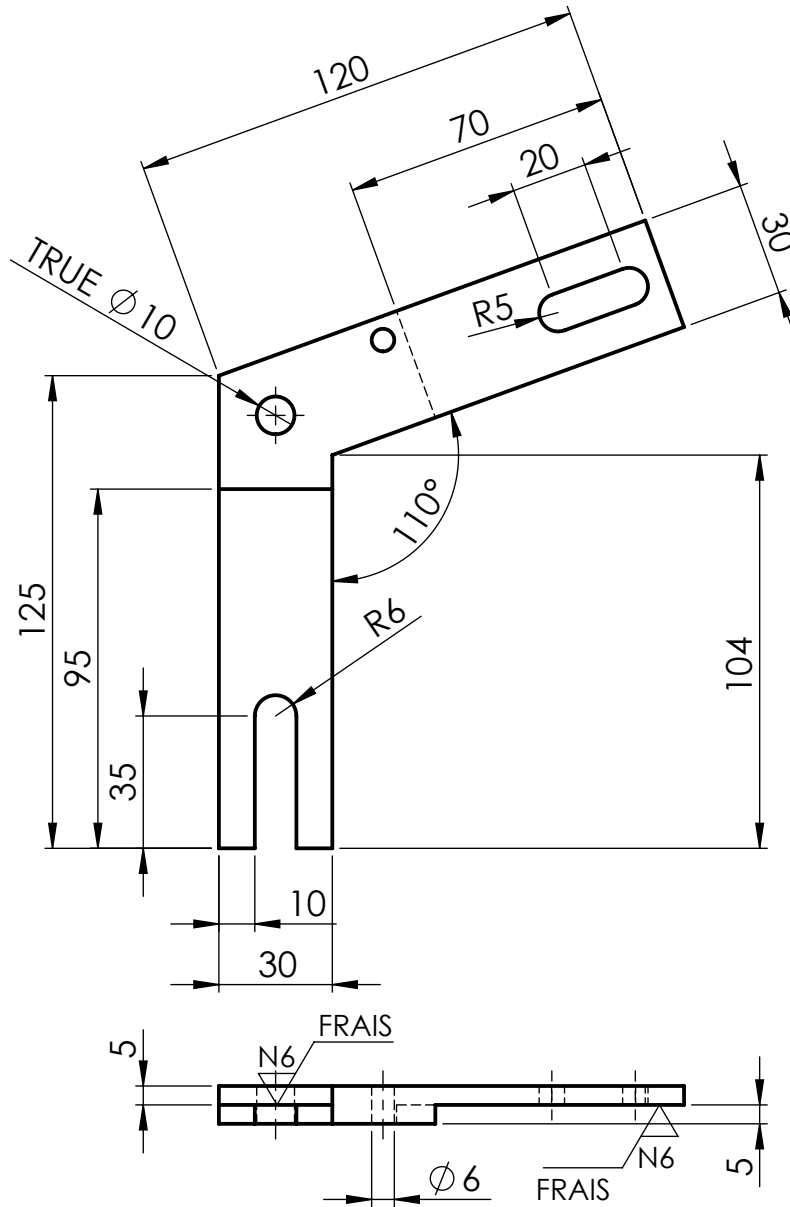
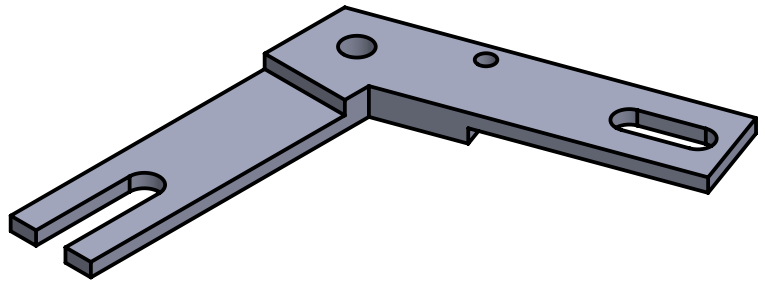
| JML                              | NAMA BAGIAN |           |           |           |           |           | BAHAN             | UKURAN JADI    | UKURAN KASAR | NO. ID   | KETERANGAN |
|----------------------------------|-------------|-----------|-----------|-----------|-----------|-----------|-------------------|----------------|--------------|----------|------------|
| >                                | 0           | 6         | 30        | 120       | 400       | 1000      | Pengerjaan Lanjut | NO. ORDER      |              | PROYEKSI |            |
| <                                | 6           | 30        | 120       | 400       | 1000      | 2000      |                   |                |              |          |            |
| TOL                              | $\pm 0.1$   | $\pm 0.2$ | $\pm 0.3$ | $\pm 0.5$ | $\pm 0.8$ | $\pm 1.2$ |                   |                |              |          |            |
| <h1>PEMBENTUK BAKSO</h1>         |             |           |           |           |           |           |                   | SKALA<br>1 : 1 | DIGAMBAR     |          | DWIS       |
|                                  |             |           |           |           |           |           |                   |                | DIPERIKSA    |          |            |
|                                  |             |           |           |           |           |           |                   |                | DISAHKAN     |          |            |
|                                  |             |           |           |           |           |           |                   |                |              |          |            |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |           |           |           |           |           |                   | FORMAT         | NO. GAMBAR   |          |            |
|                                  |             |           |           |           |           |           |                   | <b>A4</b>      |              |          |            |



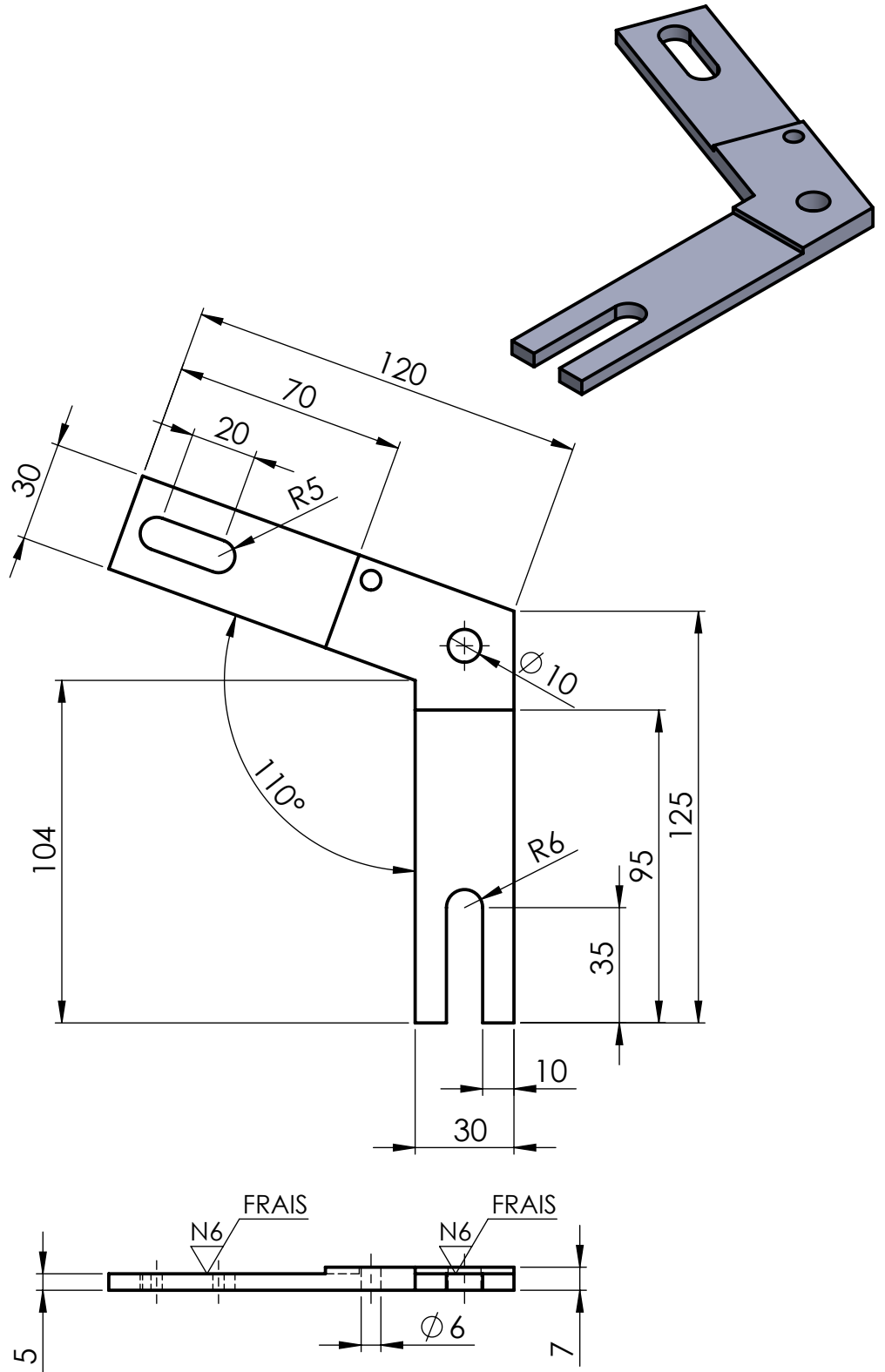
| JML                         | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI                      | UKURAN KASAR | NO. ID       | KETERANGAN |
|-----------------------------|-------------|------|------|------|------|------|-------------------|----------------------------------|--------------|--------------|------------|
| >                           | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER                        |              | PROYEKSI<br> |            |
| <                           | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |                                  |              |              |            |
| TOL                         | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |                                  |              |              |            |
| <h1>DUDUKAN PISAU ATAS</h1> |             |      |      |      |      |      |                   | SKALA                            | DIGAMBAR     |              | DWIS       |
|                             |             |      |      |      |      |      |                   | 1 : 3                            | DIPERIKSA    |              |            |
|                             |             |      |      |      |      |      |                   |                                  | DISAHKAN     |              |            |
|                             |             |      |      |      |      |      |                   | <b>POLITEKNIK NEGERI CILACAP</b> |              |              |            |
| <b>A4</b>                   |             |      |      |      |      |      |                   |                                  |              |              |            |



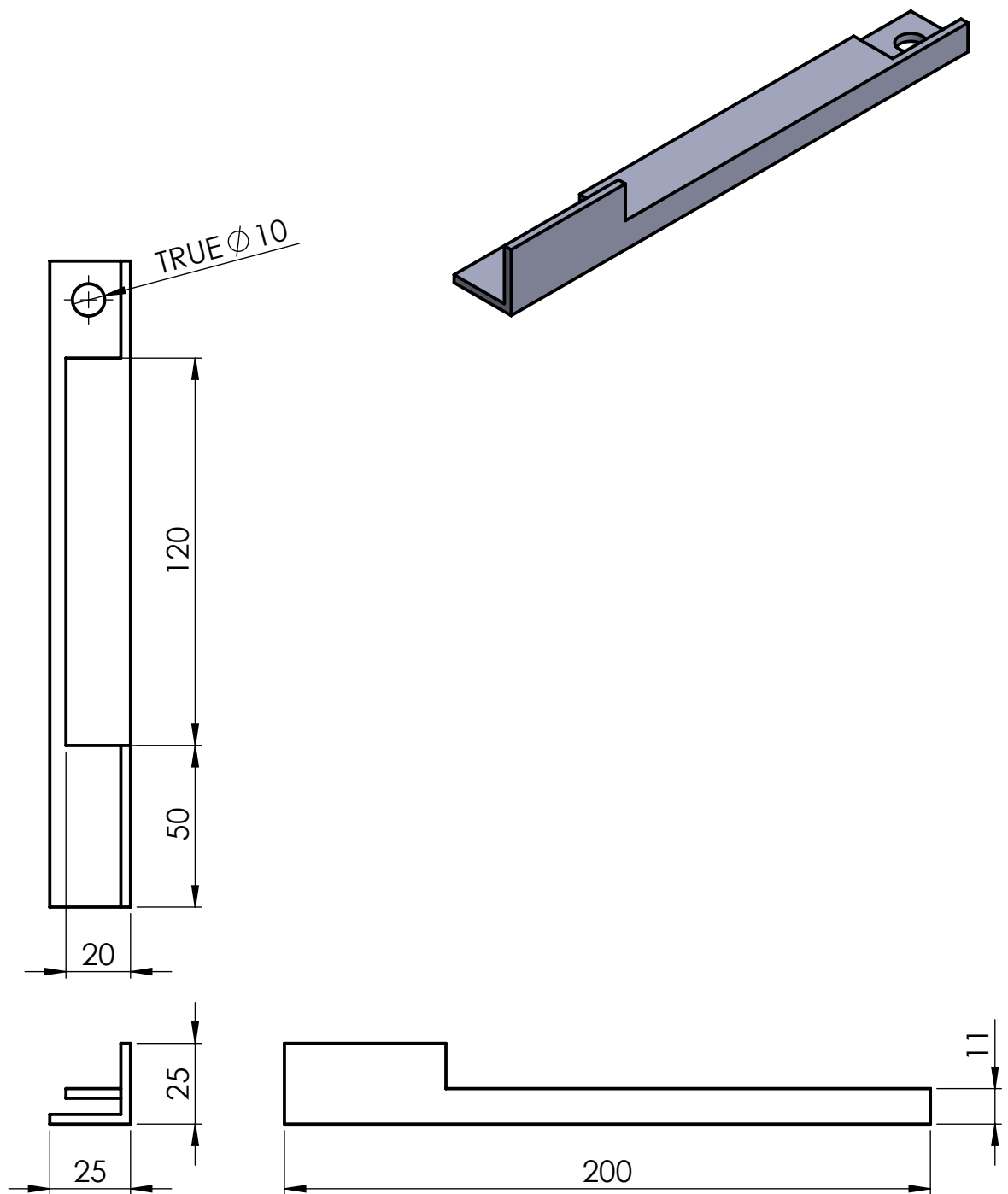
| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI   |            |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <h1>DUDUDKAN PISAU BAWAH</h1>    |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             | 1 : 2        | DIPERIKSA  |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                  |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                  |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |      |



| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              |            |            |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <h1>GAGANG PISAU KANAN</h1>      |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             | 1 : 5        | DIPERIKSA  |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                  |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                  |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |      |

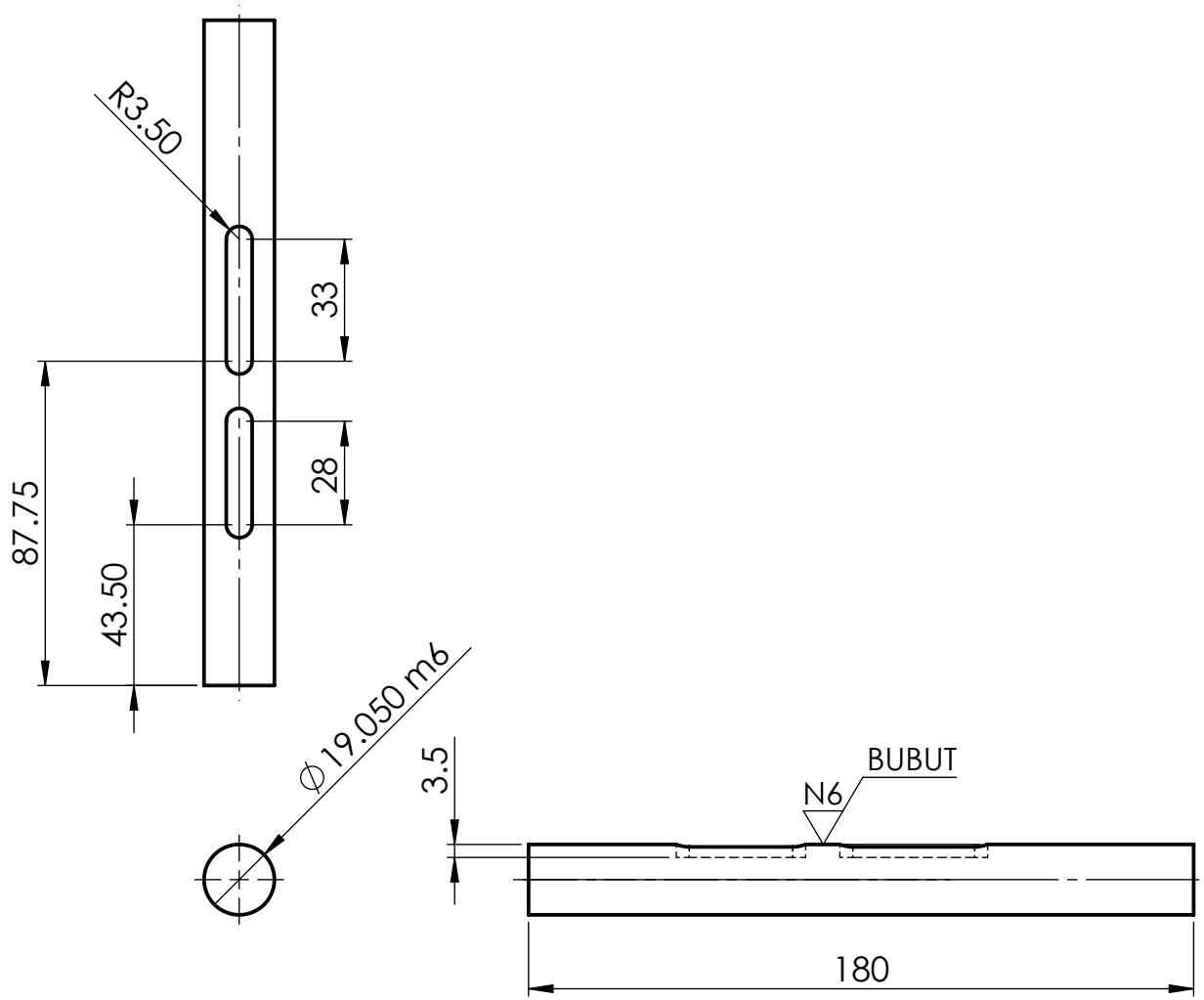
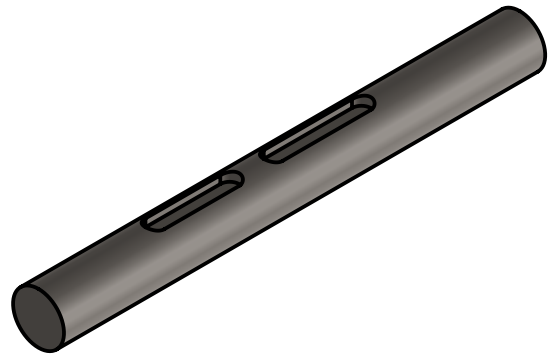


| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | PENGERJAAN LANJUT | NO. ORDER   |              |            |            |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <h1>GAGANG PISAU KIRI</h1>       |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             | 1 : 5        | DIPERIKSA  |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                  |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |      |

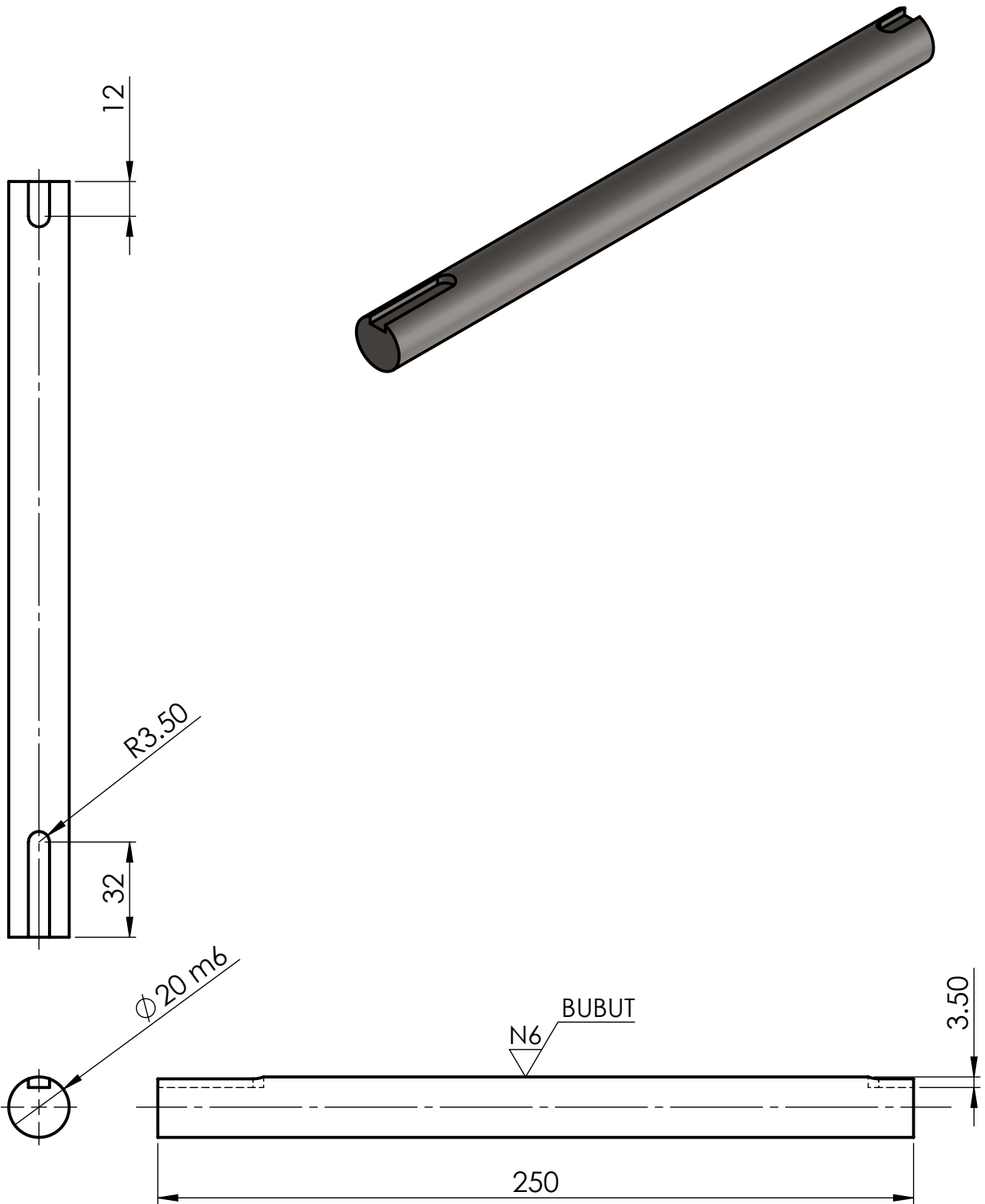


| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut |             | NO. ORDER    | PROYEKSI   |            |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <h1>PENAHAN PISAU</h1>           |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             | 1 : 2        | DIPERIKSA  |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                  |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | A4         |            |      |

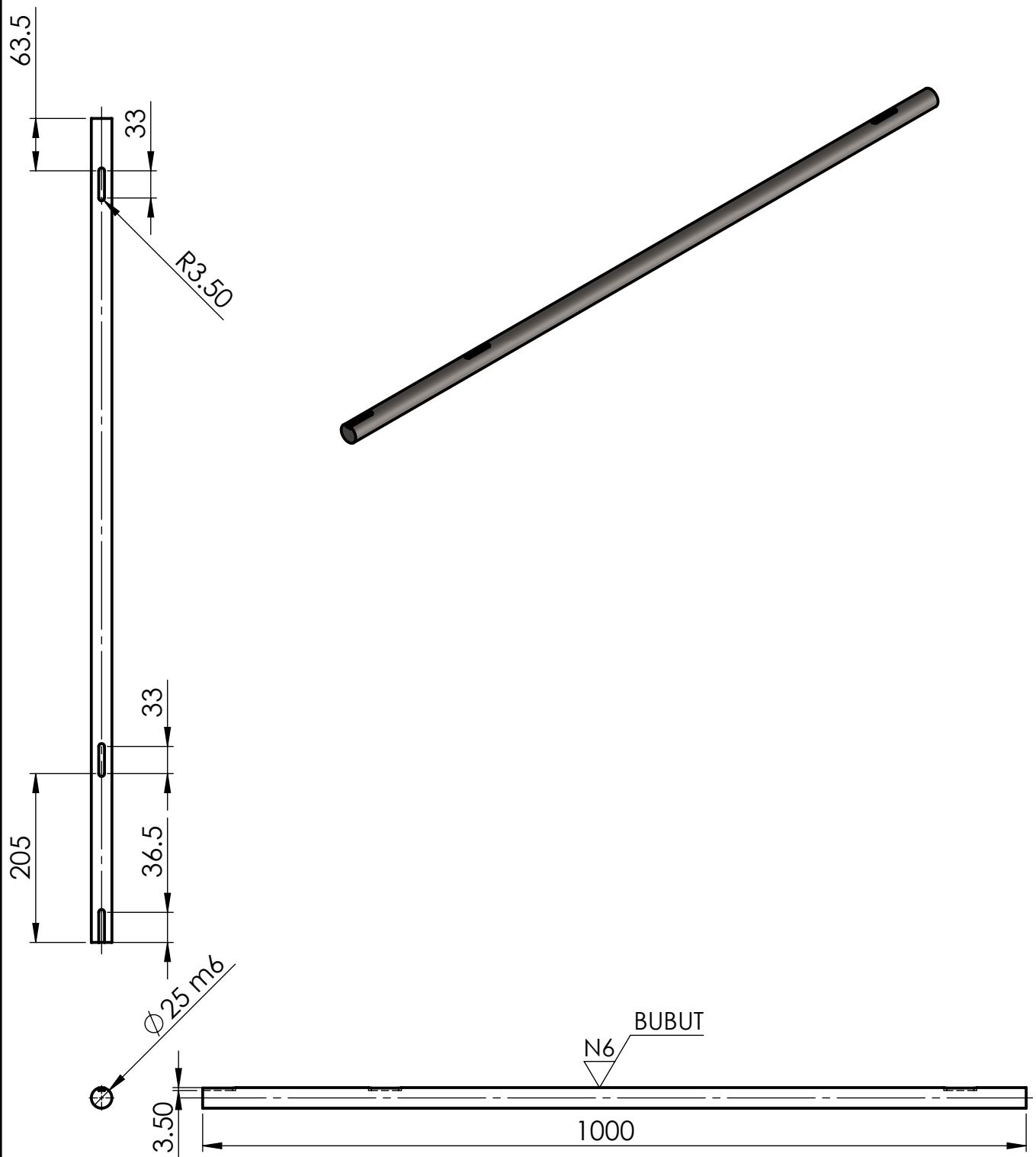




| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI         | UKURAN KASAR | NO. ID       | KETERANGAN |
|----------------------------------|-------------|------|------|------|------|------|-------------------|---------------------|--------------|--------------|------------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER           |              | PROYEKSI<br> |            |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |                     |              |              |            |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |                     |              |              |            |
| <b>POROS 1</b>                   |             |      |      |      |      |      |                   | SKALA<br>1 : 2      | DIGAMBAR     |              | DWIS       |
|                                  |             |      |      |      |      |      |                   |                     | DIPERIKSA    |              |            |
|                                  |             |      |      |      |      |      |                   |                     | DISAHKAN     |              |            |
|                                  |             |      |      |      |      |      |                   |                     |              |              |            |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   | FORMAT<br><b>A4</b> | NO. GAMBAR   |              |            |



| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut |             | NO. ORDER    |            |            |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <b>POROS 2</b>                   |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             | 1 : 2        | DIPERIKSA  |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                  |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                  |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |      |



| JML | NAMA BAGIAN |      |      |      |      |      | BAHAN              | UKURAN JADI | UKURAN KASAR | NO. ID | KETERANGAN |
|-----|-------------|------|------|------|------|------|--------------------|-------------|--------------|--------|------------|
| >   | 0           | 6    | 30   | 120  | 400  | 1000 | PENGKERJAAN LANJUT |             | NO. ORDER    |        |            |
| <   | 6           | 30   | 120  | 400  | 1000 | 2000 |                    |             |              |        |            |
| TOL | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                    |             |              |        |            |

|                                  |                |           |            |      |
|----------------------------------|----------------|-----------|------------|------|
| <h1>POROS 3</h1>                 | SKALA          | DIGAMBAR  |            | DWIS |
|                                  | <h2>1 : 7</h2> | DIPERIKSA |            |      |
|                                  |                | DISAHKAN  |            |      |
|                                  |                |           |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |                | FORMAT    | NO. GAMBAR |      |
|                                  |                | <b>A4</b> |            |      |

3.5

BUBUT  
N6

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10

$\varnothing 20 \text{ m6}$

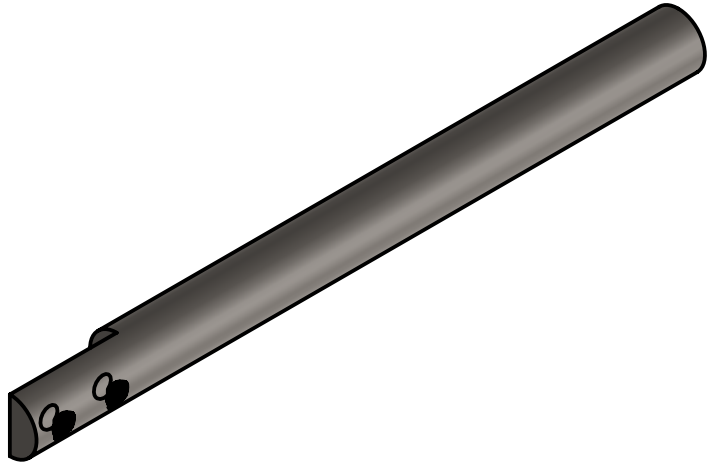
2X M8 X 1.25

7

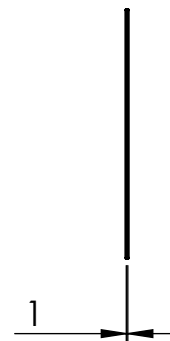
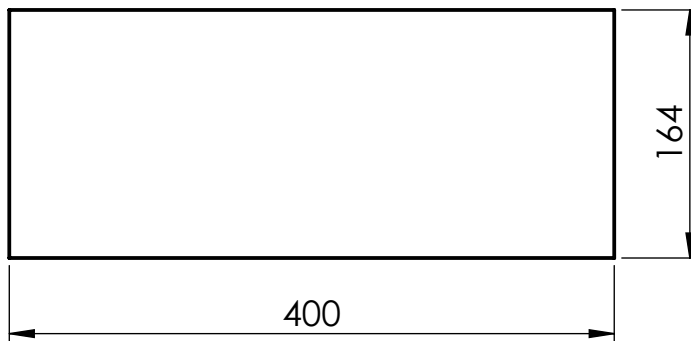
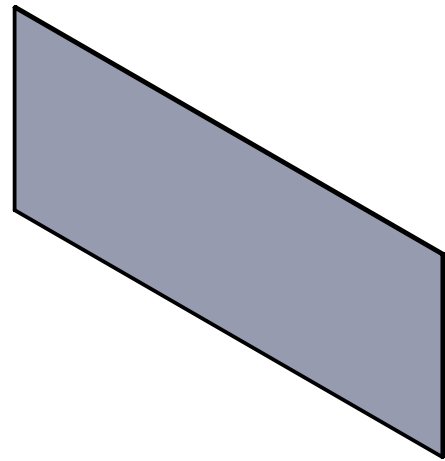
33

63.5

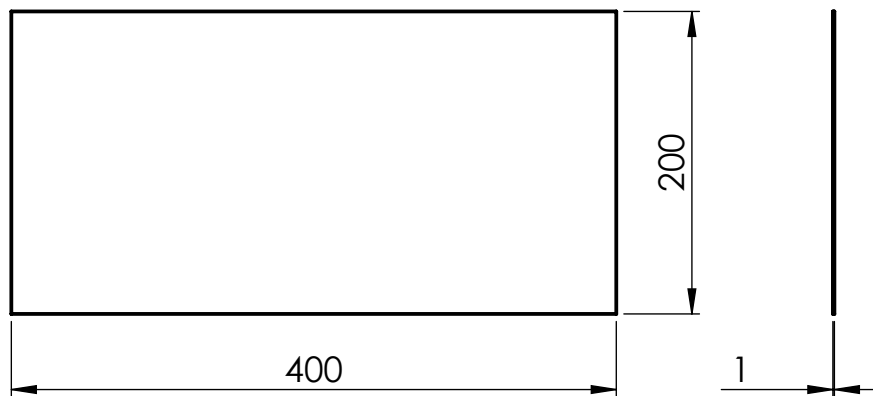
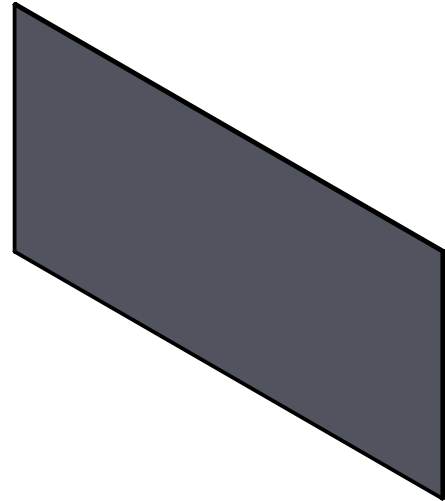
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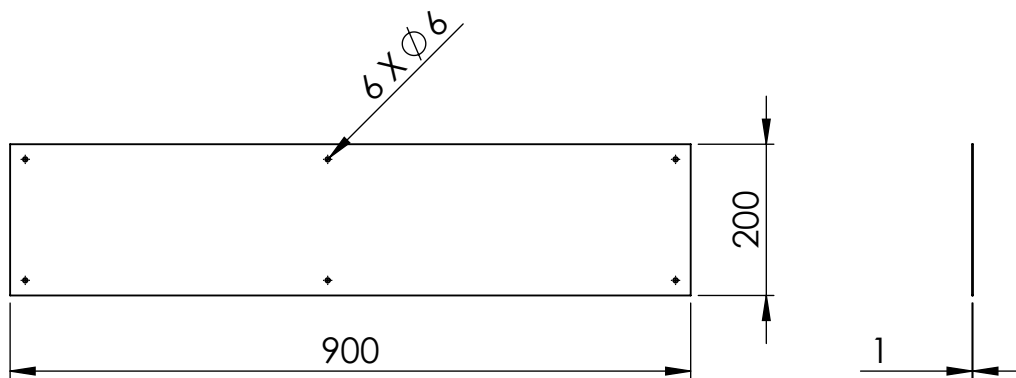
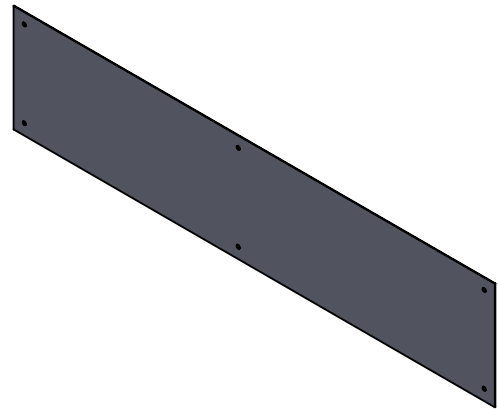
| JML                              | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   | PROYEKSI     |            |            |      |
| <                                | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                              | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <h1>POROS 4</h1>                 |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                  |             |      |      |      |      |      |                   |             | 1 : 2        | DIPERIKSA  |            |      |
|                                  |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                  |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   |             | <b>A4</b>    |            |            |      |



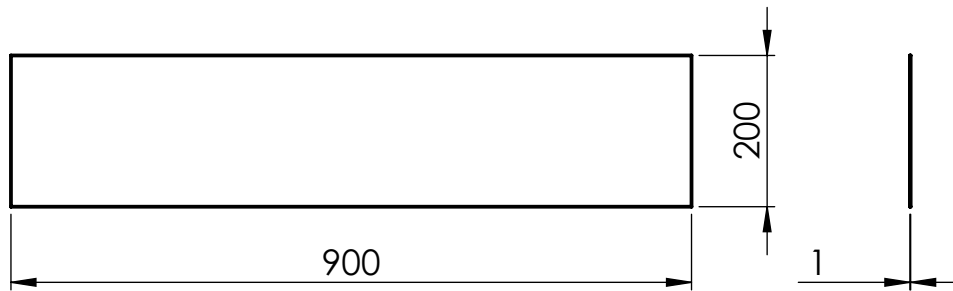
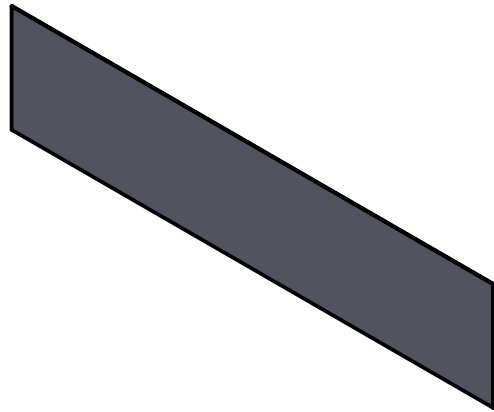
| JML  | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI  | UKURAN KASAR      | NO. ID  | KETERANGAN |
|--|-------------|------|------|------|------|------|-------------------|--------------|-------------------|---|------------|
| >  | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER    |                   | PROYEKSI<br>  |            |
| <  | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |              |                   |   |            |
| TOL  | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |              |                   |   |            |
| <b>COVER ATAS 400 MM X 164 MM</b>  |             |      |      |      |      |      |                   | SKALA        | DIGAMBAR          |   | DWIS       |
|  |             |      |      |      |      |      |                   | <b>1 : 5</b> | DIPERIKSA         |   |            |
|  |             |      |      |      |      |      |                   |              | DISAHKAN          |   |            |
|  |             |      |      |      |      |      |                   |              |                   |   |            |
|  <b>POLITEKNIK NEGERI CILACAP</b> |             |      |      |      |      |      |                   | FORMAT       | <b>NO. GAMBAR</b> |   |            |
|  |             |      |      |      |      |      |                   | <b>A4</b>    |                   |   |            |



| JML                               | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI        | UKURAN KASAR | NO. ID          | KETERANGAN |
|-----------------------------------|-------------|------|------|------|------|------|-------------------|--------------------|--------------|-----------------|------------|
| >                                 | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER          |              | PROYEKSI<br>DWG |            |
| <                                 | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |                    |              |                 |            |
| TOL                               | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |                    |              |                 |            |
| <b>COVER ATAS 400 MM X 200 MM</b> |             |      |      |      |      |      |                   | SKALA<br><br>1 : 5 | DIGAMBAR     |                 |            |
|                                   |             |      |      |      |      |      |                   |                    | DIPERIKSA    |                 |            |
|                                   |             |      |      |      |      |      |                   |                    | DISAHKAN     |                 |            |
|                                   |             |      |      |      |      |      |                   |                    |              |                 |            |
| <b>POLITEKNIK NEGERI CILACAP</b>  |             |      |      |      |      |      |                   | FORMAT             | NO. GAMBAR   |                 |            |
|                                   |             |      |      |      |      |      |                   | <b>A4</b>          |              |                 |            |

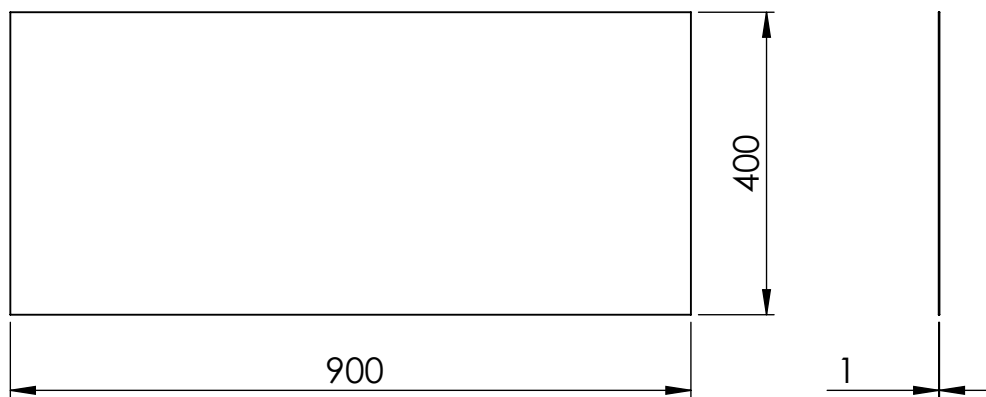
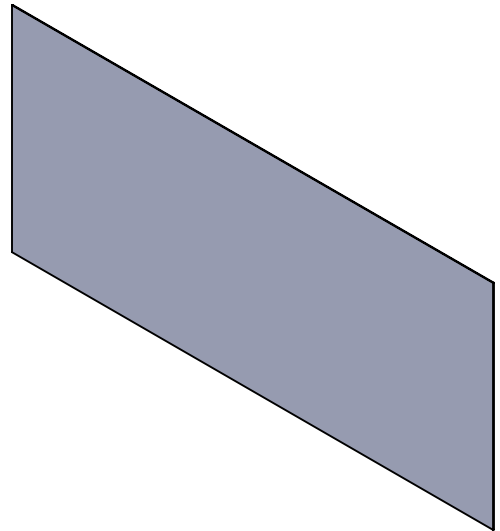


| JML  | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID       | KETERANGAN |
|--|-------------|------|------|------|------|------|-------------------|-------------|--------------|--------------|------------|
| >  | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI<br> |            |
| <  | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |              |            |
| TOL  | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |              |            |
| <b>COVER ATAS 900 MM X 200 MM<br/>(LUBANG)</b> |             |      |      |      |      |      |                   | SKALA       | DIGAMBAR     |              | DWIS       |
|  |             |      |      |      |      |      |                   | 1 : 10      | DIPERIKSA    |              |            |
|  |             |      |      |      |      |      |                   |             | DISAHKAN     |              |            |
|  |             |      |      |      |      |      |                   |             |              |              |            |
| <b>POLITEKNIK NEGERI CILACAP</b>               |             |      |      |      |      |      |                   | FORMAT      | NO. GAMBAR   |              |            |
|  |             |      |      |      |      |      |                   | <b>A4</b>   |              |              |            |

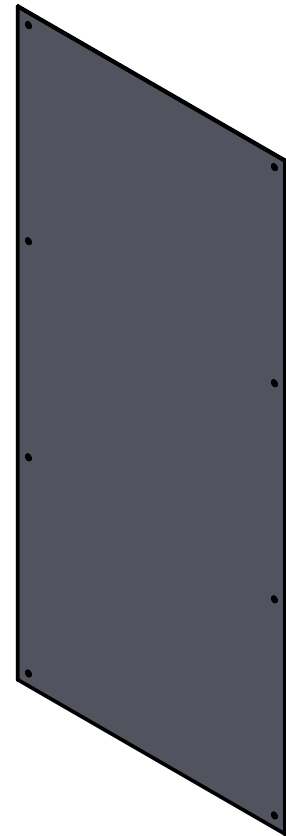
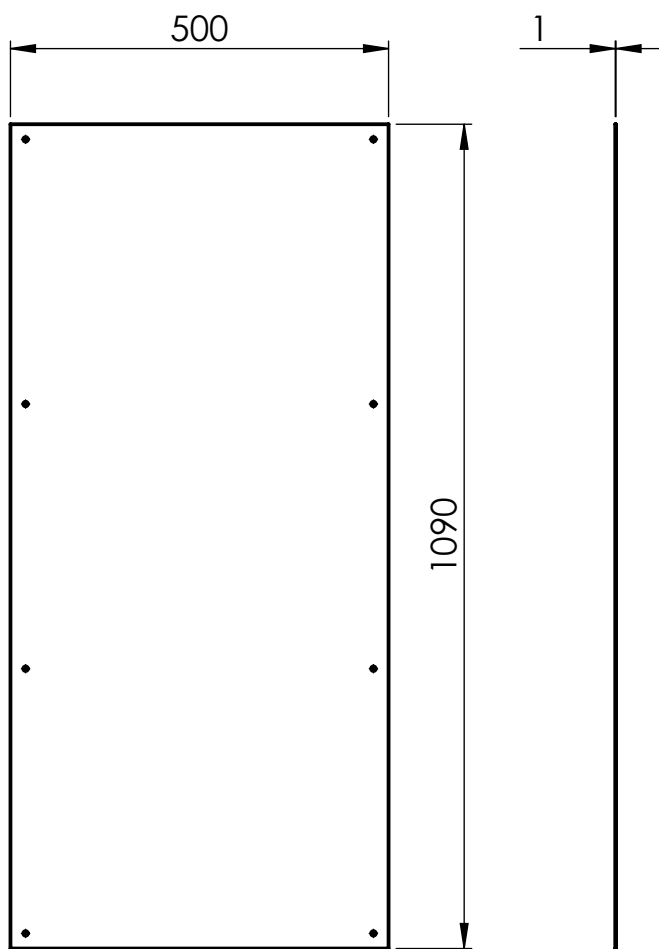


| JML                               | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI         | UKURAN KASAR | NO. ID       | KETERANGAN |
|-----------------------------------|-------------|------|------|------|------|------|-------------------|---------------------|--------------|--------------|------------|
| >                                 | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER           |              | PROYEKSI<br> |            |
| <                                 | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |                     |              |              |            |
| TOL                               | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |                     |              |              |            |
| <b>COVER ATAS 900 MM X 200 MM</b> |             |      |      |      |      |      |                   | SKALA<br><br>1 : 10 | DIGAMBAR     |              | DWIS       |
|                                   |             |      |      |      |      |      |                   |                     | DIPERIKSA    |              |            |
|                                   |             |      |      |      |      |      |                   |                     | DISAHKAN     |              |            |
|                                   |             |      |      |      |      |      |                   |                     |              |              |            |
| <b>POLITEKNIK NEGERI CILACAP</b>  |             |      |      |      |      |      |                   | FORMAT              | NO. GAMBAR   |              |            |
|                                   |             |      |      |      |      |      |                   | <b>A4</b>           |              |              |            |

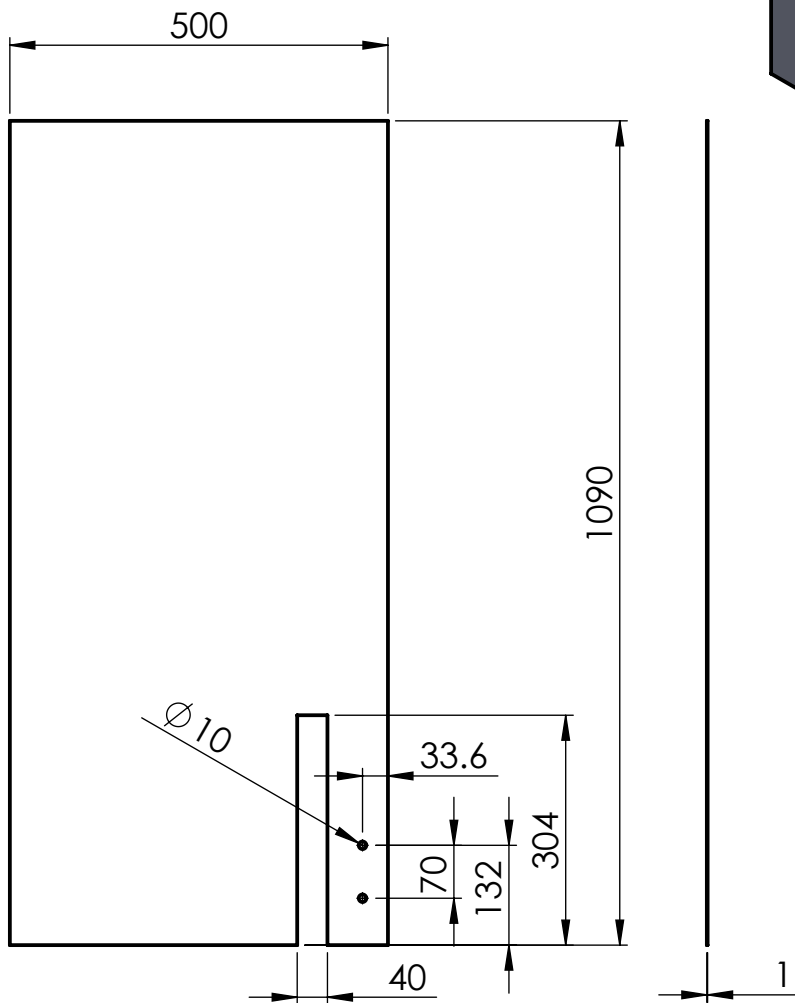




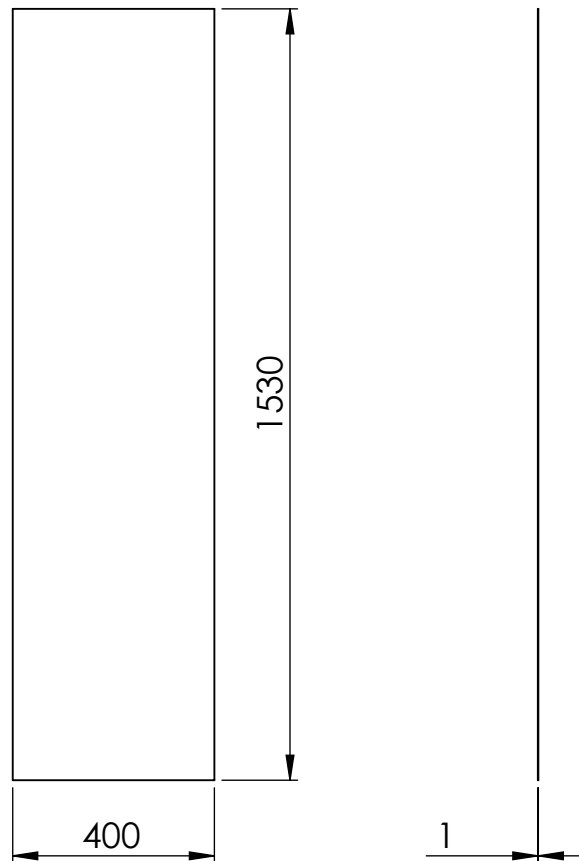
| JML                               | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID          | KETERANGAN |
|-----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|-----------------|------------|
| >                                 | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI<br>DWG |            |
| <                                 | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |                 |            |
| TOL                               | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |                 |            |
| <b>COVER ATAS 900 MM X 400 MM</b> |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR        |            |
|                                   |             |      |      |      |      |      |                   |             | 1 : 10       | DIPERIKSA       |            |
|                                   |             |      |      |      |      |      |                   |             |              | DISAHKAN        |            |
|                                   |             |      |      |      |      |      |                   |             |              |                 |            |
| <b>POLITEKNIK NEGERI CILACAP</b>  |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR      |            |
|                                   |             |      |      |      |      |      |                   |             | <b>A4</b>    |                 |            |



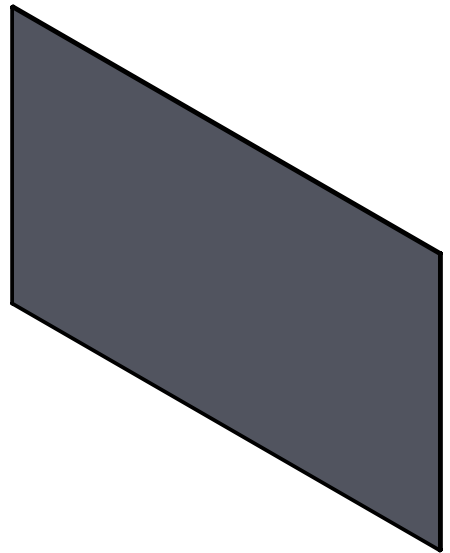
| JML   | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI                      | UKURAN KASAR | NO. ID   | KETERANGAN |
|---|-------------|------|------|------|------|------|-------------------|----------------------------------|--------------|----------|------------|
| >   | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER                        |              | PROYEKSI |            |
| <   | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |                                  |              |          |            |
| TOL   | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |                                  |              |          |            |
| <b>COVER ATAS 1090 MM X 500 MM<br/>(LUBANG)</b> |             |      |      |      |      |      |                   | SKALA                            | DIGAMBAR     |          | DWIS       |
|   |             |      |      |      |      |      |                   | 1 : 10                           | DIPERIKSA    |          |            |
|   |             |      |      |      |      |      |                   |                                  | DISAHKAN     |          |            |
|   |             |      |      |      |      |      |                   | <b>POLITEKNIK NEGERI CILACAP</b> |              |          |            |
| <b>A4</b>                                       |             |      |      |      |      |      |                   |                                  |              |          |            |



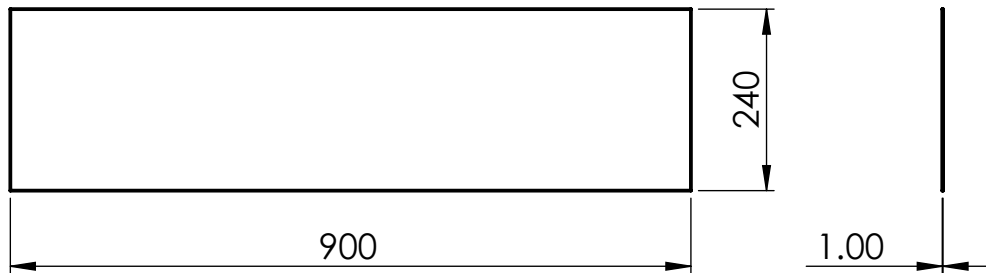
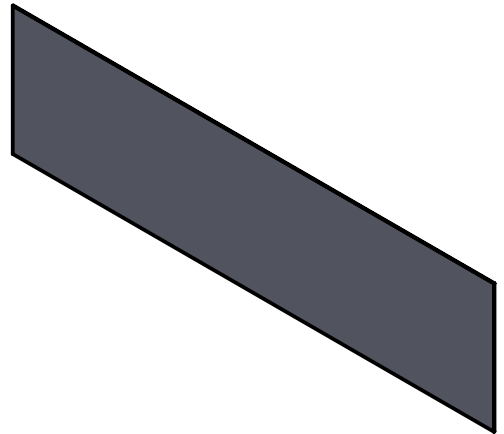
| JML                                | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|------------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                  | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI   |            |      |
| <                                  | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                                | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <b>COVER ATAS 1090 MM X 500 MM</b> |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                    |             |      |      |      |      |      |                   |             | 1 : 10       | DIPERIKSA  |            |      |
|                                    |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                    |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b>   |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                    |             |      |      |      |      |      |                   |             | A4           |            |            |      |



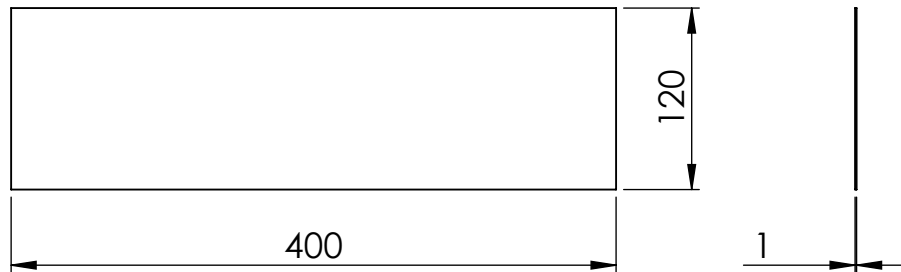
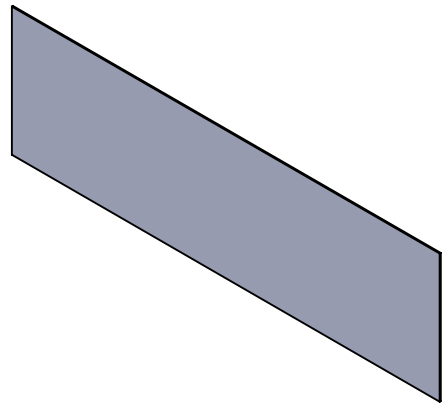
| JML                                | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI   | UKURAN KASAR      | NO. ID       | KETERANGAN |
|------------------------------------|-------------|------|------|------|------|------|-------------------|---------------|-------------------|--------------|------------|
| >                                  | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER     |                   | PROYEKSI<br> |            |
| <                                  | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |               |                   |              |            |
| TOL                                | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |               |                   |              |            |
| <b>COVER ATAS 1530 MM X 400 MM</b> |             |      |      |      |      |      |                   | SKALA         | DIGAMBAR          |              | DWIS       |
|                                    |             |      |      |      |      |      |                   | <b>1 : 15</b> | DIPERIKSA         |              |            |
|                                    |             |      |      |      |      |      |                   |               | DISAHKAN          |              |            |
|                                    |             |      |      |      |      |      |                   |               |                   |              |            |
| <b>POLITEKNIK NEGERI CILACAP</b>   |             |      |      |      |      |      |                   | FORMAT        | <b>NO. GAMBAR</b> |              |            |
|                                    |             |      |      |      |      |      |                   | <b>A4</b>     |                   |              |            |



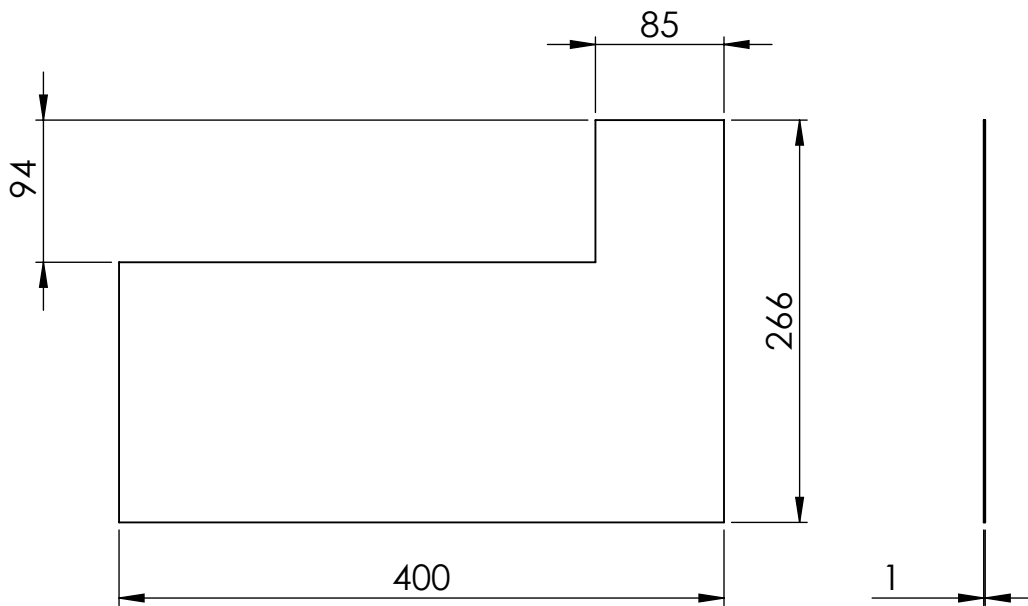
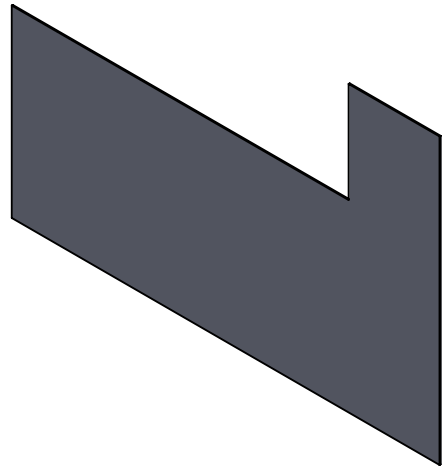
| JML                                | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID       | KETERANGAN |
|------------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|--------------|------------|
| >                                  | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI<br> |            |
| <                                  | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |              |            |
| TOL                                | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |              |            |
| <b>COVER BAWAH 400 MM X 240 MM</b> |             |      |      |      |      |      |                   | SKALA       | DIGAMBAR     |              | DWIS       |
|                                    |             |      |      |      |      |      |                   | 1 : 5       | DIPERIKSA    |              |            |
|                                    |             |      |      |      |      |      |                   |             | DISAHKAN     |              |            |
|                                    |             |      |      |      |      |      |                   |             |              |              |            |
| <b>POLITEKNIK NEGERI CILACAP</b>   |             |      |      |      |      |      |                   | FORMAT      | NO. GAMBAR   |              |            |
|                                    |             |      |      |      |      |      |                   | <b>A4</b>   |              |              |            |



| JML                               | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID       | KETERANGAN |      |
|-----------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|--------------|------------|------|
| >                                 | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI<br> |            |      |
| <                                 | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |              |            |      |
| TOL                               | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |              |            |      |
| <b>COVER ATAS 900 MM X 240 MM</b> |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR     |            | DWIS |
|                                   |             |      |      |      |      |      |                   |             | 1 : 10       | DIPERIKSA    |            |      |
|                                   |             |      |      |      |      |      |                   |             |              | DISAHKAN     |            |      |
|                                   |             |      |      |      |      |      |                   |             |              |              |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b>  |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR   |            |      |
|                                   |             |      |      |      |      |      |                   |             | A4           |              |            |      |

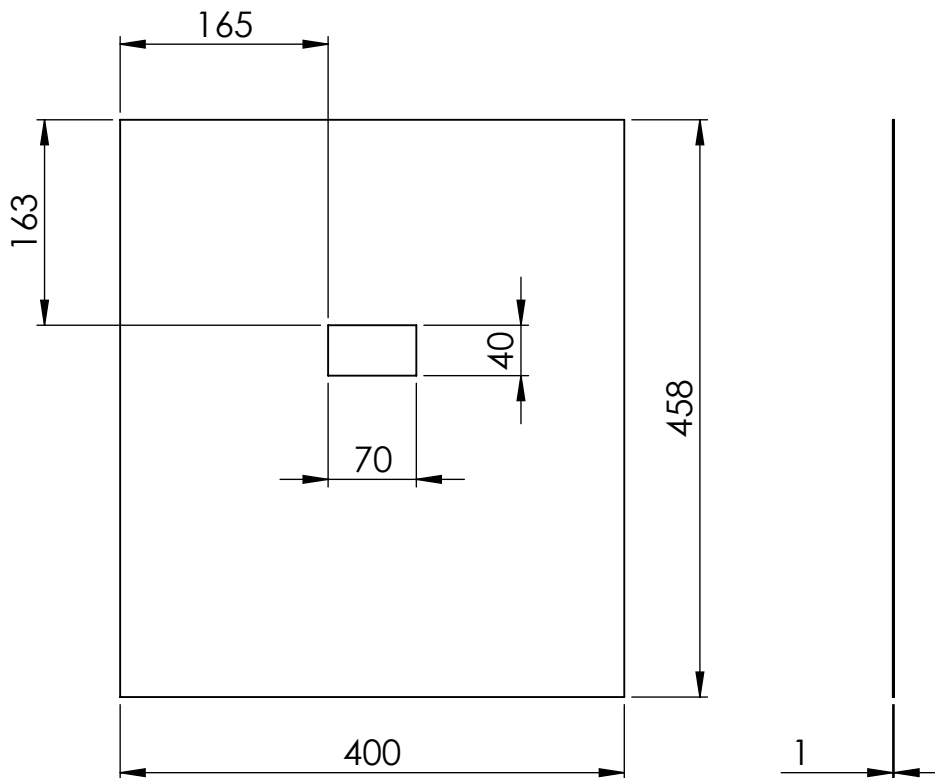
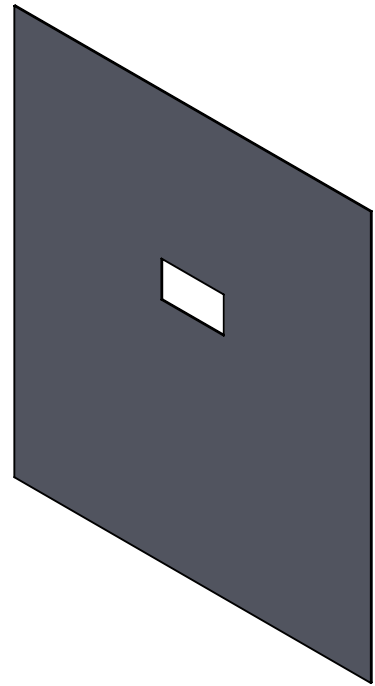


| JML                                | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI        | UKURAN KASAR | NO. ID       | KETERANGAN |
|------------------------------------|-------------|------|------|------|------|------|-------------------|--------------------|--------------|--------------|------------|
| >                                  | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER          |              | PROYEKSI<br> |            |
| <                                  | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |                    |              |              |            |
| TOL                                | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |                    |              |              |            |
| <b>COVER DEPAN 400 MM X 120 MM</b> |             |      |      |      |      |      |                   | SKALA<br><br>1 : 5 | DIGAMBAR     |              | DWIS       |
|                                    |             |      |      |      |      |      |                   |                    | DIPERIKSA    |              |            |
|                                    |             |      |      |      |      |      |                   |                    | DISAHKAN     |              |            |
|                                    |             |      |      |      |      |      |                   |                    |              |              |            |
| <b>POLITEKNIK NEGERI CILACAP</b>   |             |      |      |      |      |      |                   | FORMAT             | NO. GAMBAR   |              |            |
|                                    |             |      |      |      |      |      |                   | <b>A4</b>          |              |              |            |

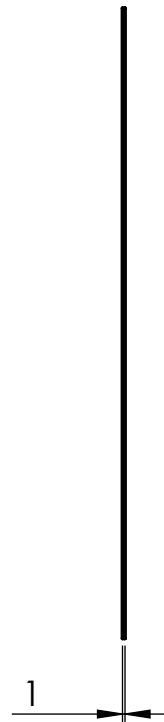
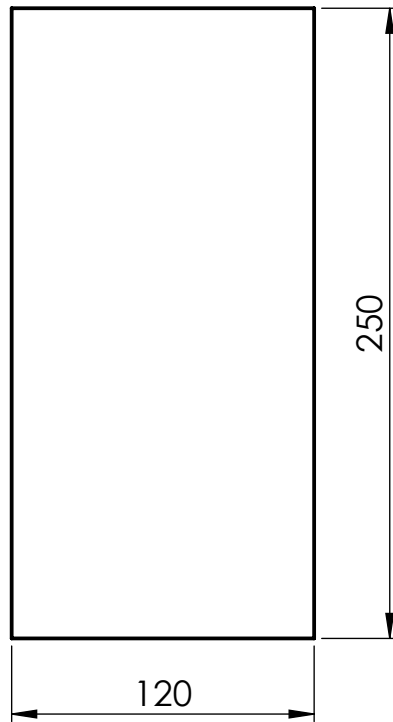
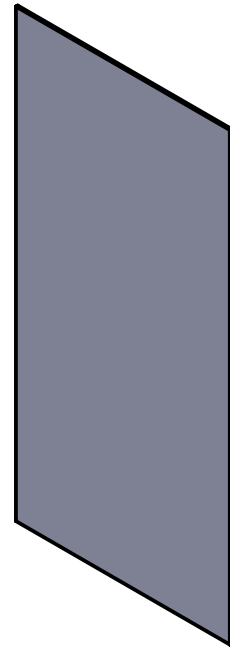


| JML                                | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID            | KETERANGAN |      |
|------------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|-------------------|------------|------|
| >                                  | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI<br>      |            |      |
| <                                  | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |                   |            |      |
| TOL                                | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |                   |            |      |
| <b>COVER DEPAN 400 MM X 266 MM</b> |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR          |            | DWIS |
|                                    |             |      |      |      |      |      |                   |             | <b>1 : 5</b> | DIPERIKSA         |            |      |
|                                    |             |      |      |      |      |      |                   |             |              | DISAHKAN          |            |      |
|                                    |             |      |      |      |      |      |                   |             |              |                   |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b>   |             |      |      |      |      |      |                   |             | FORMAT       | <b>NO. GAMBAR</b> |            |      |
|                                    |             |      |      |      |      |      |                   |             | <b>A4</b>    |                   |            |      |





| JML                                | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID     | KETERANGAN |      |
|------------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|------------|------------|------|
| >                                  | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              |            |            |      |
| <                                  | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |            |            |      |
| TOL                                | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |            |            |      |
| <b>COVER ATAS 1090 MM X 500 MM</b> |             |      |      |      |      |      |                   |             | SKALA        | DIGAMBAR   |            | DWIS |
|                                    |             |      |      |      |      |      |                   |             | 1 : 6        | DIPERIKSA  |            |      |
|                                    |             |      |      |      |      |      |                   |             |              | DISAHKAN   |            |      |
|                                    |             |      |      |      |      |      |                   |             |              |            |            |      |
| <b>POLITEKNIK NEGERI CILACAP</b>   |             |      |      |      |      |      |                   |             | FORMAT       | NO. GAMBAR |            |      |
|                                    |             |      |      |      |      |      |                   |             | A4           |            |            |      |



| JML                                  | NAMA BAGIAN |      |      |      |      |      | BAHAN             | UKURAN JADI | UKURAN KASAR | NO. ID       | KETERANGAN |
|--------------------------------------|-------------|------|------|------|------|------|-------------------|-------------|--------------|--------------|------------|
| >                                    | 0           | 6    | 30   | 120  | 400  | 1000 | Pengerjaan Lanjut | NO. ORDER   |              | PROYEKSI<br> |            |
| <                                    | 6           | 30   | 120  | 400  | 1000 | 2000 |                   |             |              |              |            |
| TOL                                  | ±0.1        | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 |                   |             |              |              |            |
| <b>COVER SAMPING 250 MM X 120 MM</b> |             |      |      |      |      |      |                   | SKALA       | DIGAMBAR     |              | DWIS       |
|                                      |             |      |      |      |      |      |                   | 1 : 3       | DIPERIKSA    |              |            |
|                                      |             |      |      |      |      |      |                   |             | DISAHKAN     |              |            |
|                                      |             |      |      |      |      |      |                   |             |              |              |            |
| <b>POLITEKNIK NEGERI CILACAP</b>     |             |      |      |      |      |      |                   | FORMAT      | NO. GAMBAR   |              |            |
|                                      |             |      |      |      |      |      |                   | <b>A4</b>   |              |              |            |