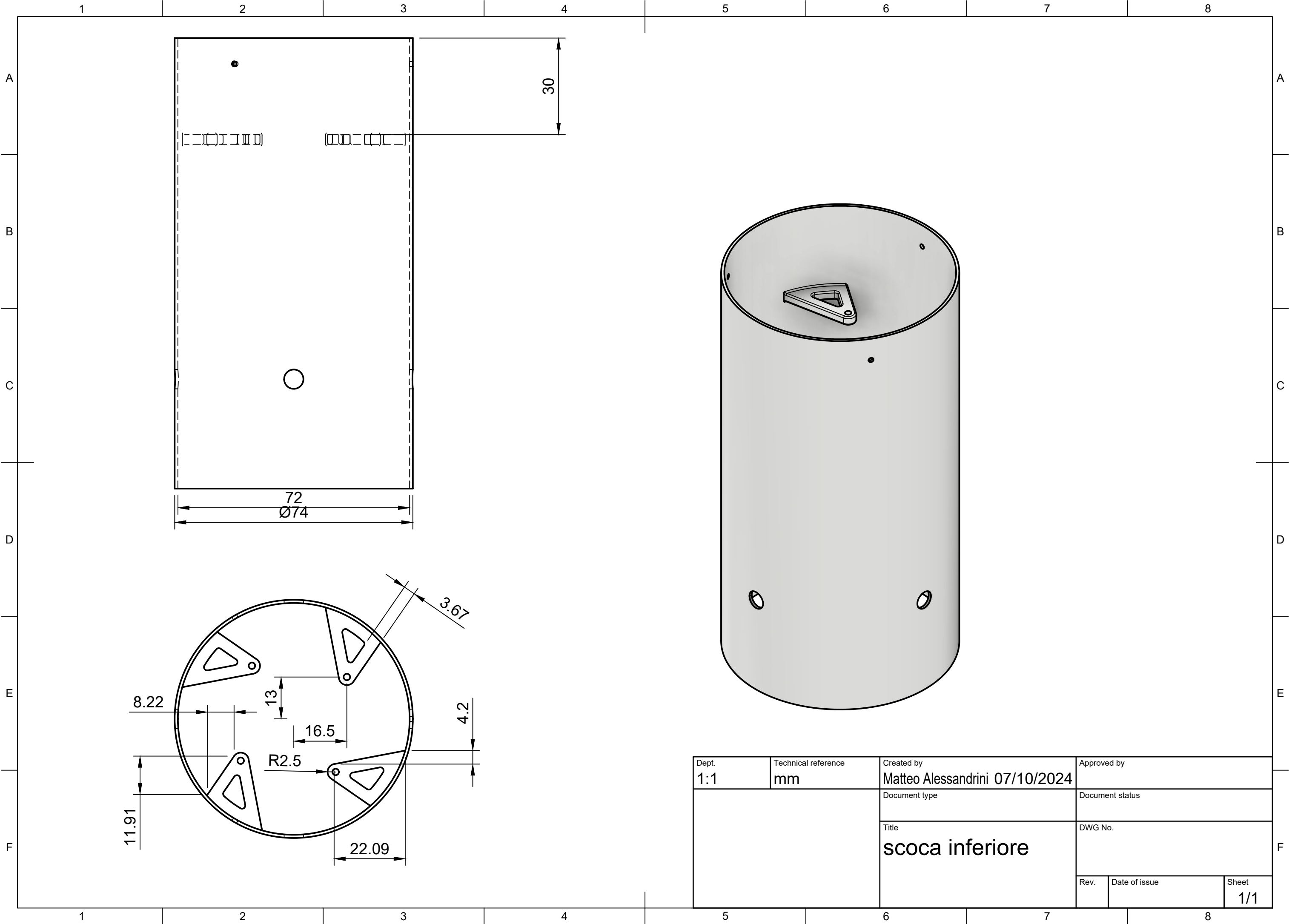
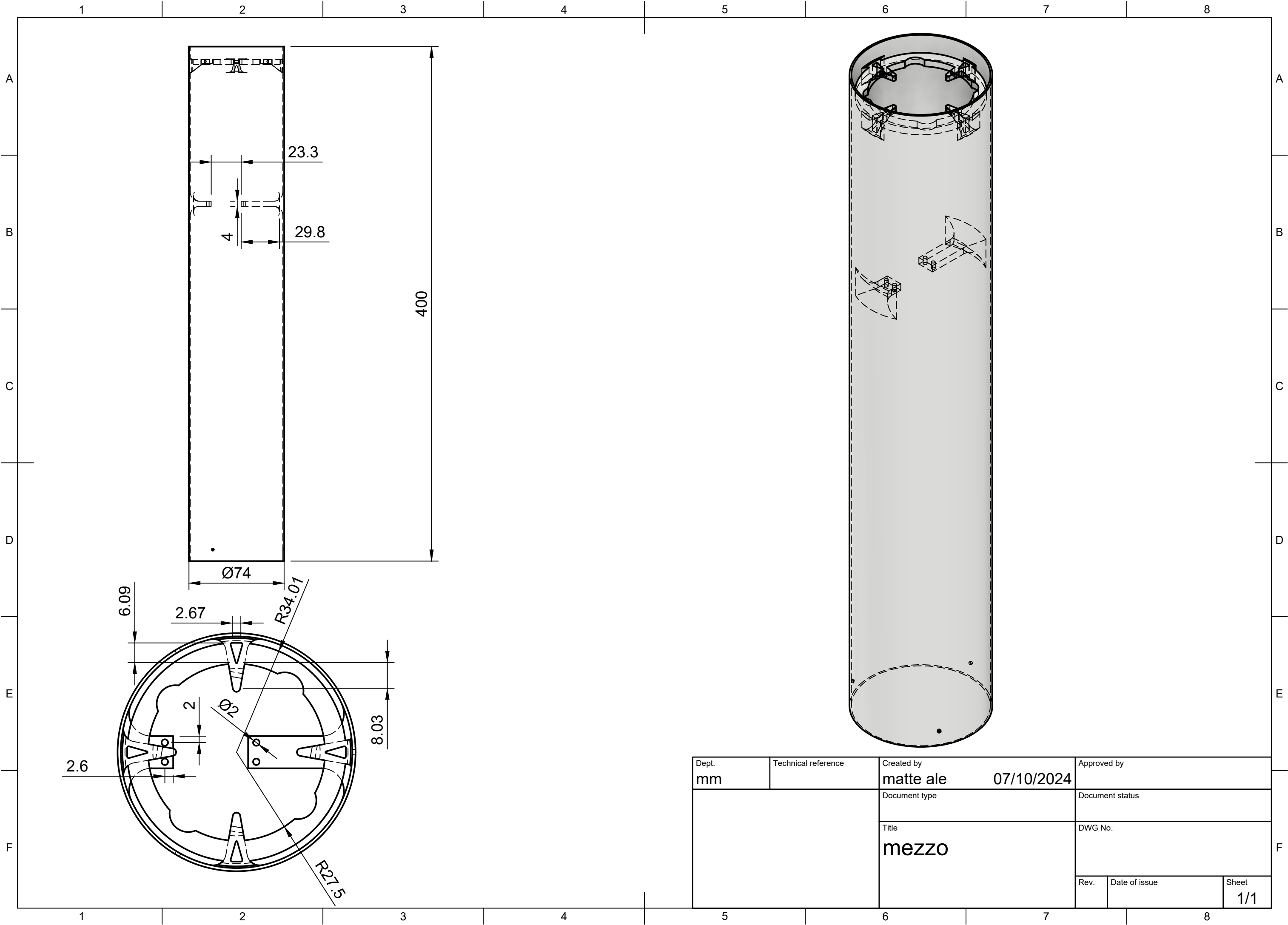
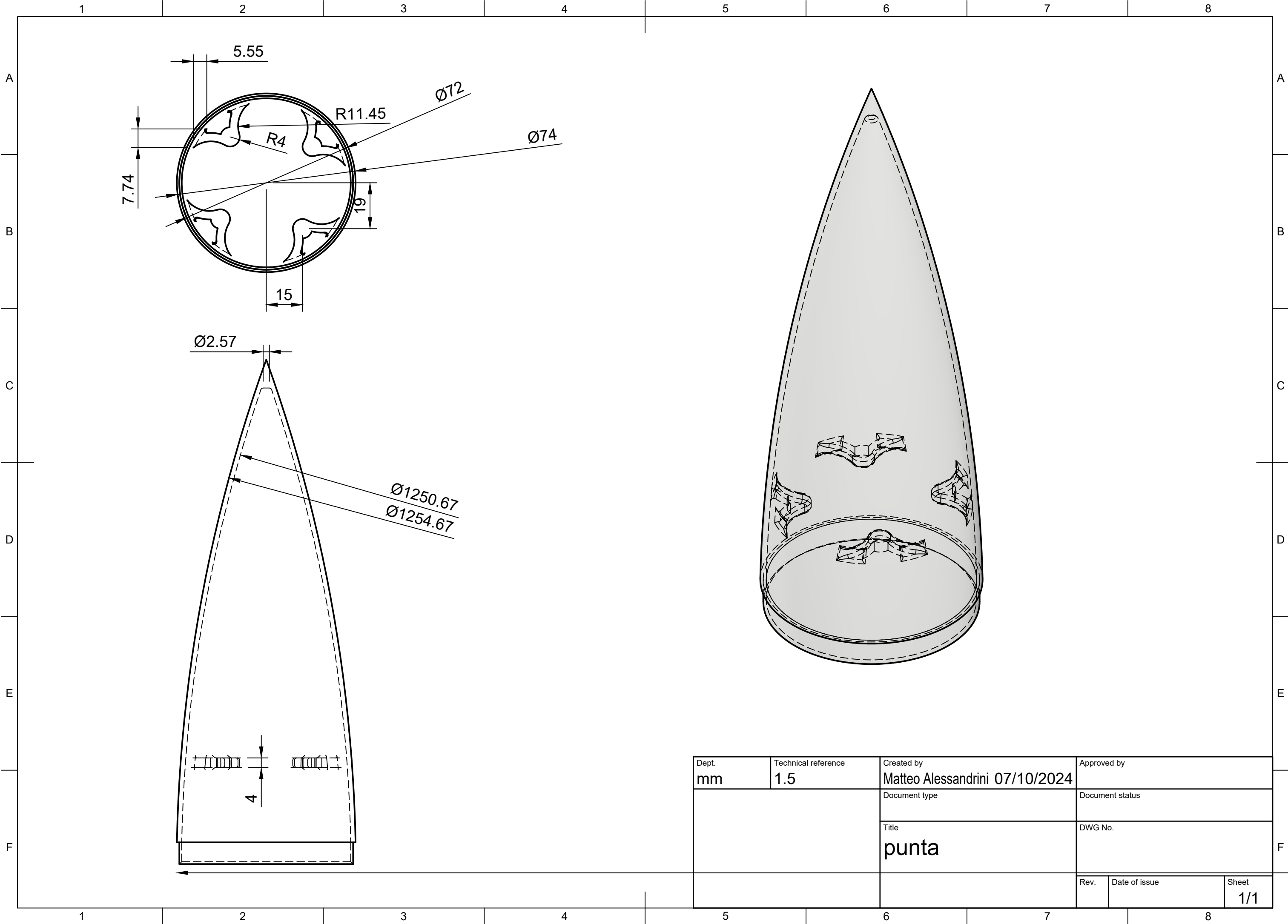


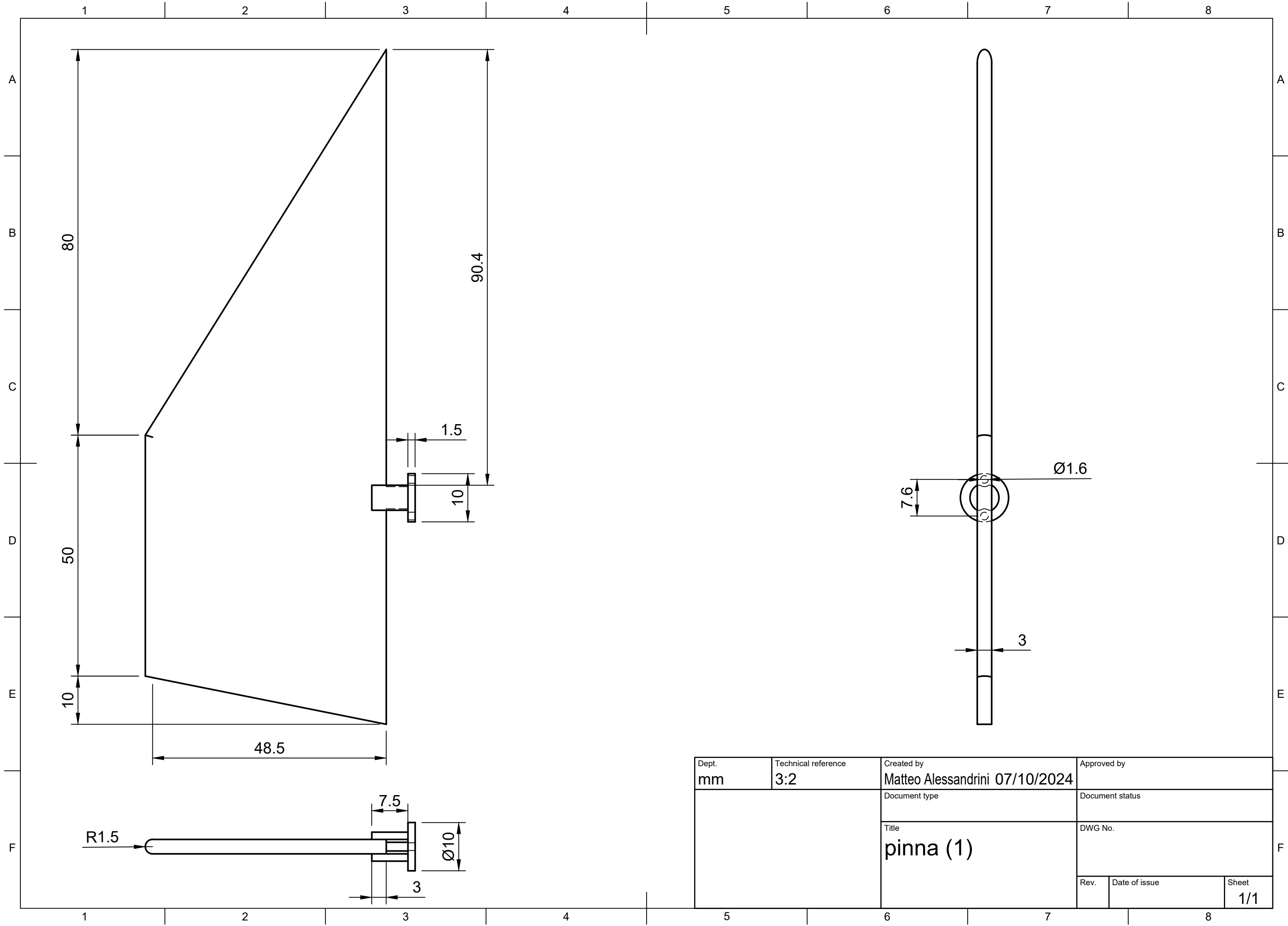
| 1            |              | 2   |   | 3                                     |  | 4 |  | 5 |                           | 6                         |  | 7 |  | 8 |  |
|--------------|--------------|-----|---|---------------------------------------|--|---|--|---|---------------------------|---------------------------|--|---|--|---|--|
| Elenco parti |              |     |   |                                       |  |   |  |   |                           |                           |  |   |  |   |  |
| A            | elem<br>ento | qtà | numero parte  |                                       |  |   |  |   | materiale                 |                           |  |   |  |   |  |
|              | 1            | 1   | Scoca inferiore   |                                       |  |   |  |   | Plastica ABS              |                           |  |   |  |   |  |
|              | 2            | 1   | Sostengo angolari   |                                       |  |   |  |   | Polietilene, alta densità |                           |  |   |  |   |  |
|              | 3            | 1   | Spingitore  |                                       |  |   |  |   | Plastica ABS              |                           |  |   |  |   |  |
|              | 4            | 1   | Supporto paracadute   |                                       |  |   |  |   | Plastica ABS              |                           |  |   |  |   |  |
|              | 5            | 1   | Punta   |                                       |  |   |  |   | Plastica ABS              |                           |  |   |  |   |  |
|              | 6            | 4   | Pinna (1)   |                                       |  |   |  |   | Plastica ABS              |                           |  |   |  |   |  |
|              | B            | 7   | 1   | Paracadute                            |  |   |  |   |                           | Acciaio                   |  |   |  |   |  |
| 8            |              | 1   | Mezzo   |                                       |  |   |  |   | Plastica ABS              |                           |  |   |  |   |  |
| 9            |              | 1   | Flapp   |                                       |  |   |  |   | Acciaio                   |                           |  |   |  |   |  |
|              |              | 10  | 1   | Engine block                          |  |   |  |   |                           | Polietilene, alta densità |  |   |  |   |  |
|              | 11           | 4   | Divisore 3  |                                       |  |   |  |   | Polietilene, alta densità |                           |  |   |  |   |  |
|              | 12           | 4   | Divisore 2  |                                       |  |   |  |   | Polietilene, alta densità |                           |  |   |  |   |  |
|              | C            | 13  | 4   | Distanziatori                         |  |   |  |   |                           | Polietilene, alta densità |  |   |  |   |  |
| 14           |              | 4   | Dischi  |                                       |  |   |  |   | Polietilene, alta densità |                           |  |   |  |   |  |
| 15           |              | 1   | Congiuntore   |                                       |  |   |  |   | Plastica ABS              |                           |  |   |  |   |  |
|              |              | 16  | 1   | Computer                              |  |   |  |   |                           | Plastica ABS              |  |   |  |   |  |
|              | 17           | 1   | Componente22  |                                       |  |   |  |   | Plastica PC/ABS           |                           |  |   |  |   |  |
|              | 18           | 2   | Assone  |                                       |  |   |  |   | Acciaio inox AISI 202     |                           |  |   |  |   |  |
|              | D            | 19  | 2   | Assino                                |  |   |  |   |                           | Acciaio inox AISI 202     |  |   |  |   |  |
| 20           |              | 4   | Assi (1)  |                                       |  |   |  |   | Alluminio                 |                           |  |   |  |   |  |
| 21           |              | 4   | Angolare  |                                       |  |   |  |   | Polietilene, alta densità |                           |  |   |  |   |  |
|              |              | 22  | 26  | 92095A451_Button Head Hex Drive Screw |  |   |  |   |                           | Acciaio                   |  |   |  |   |  |
|              | 23           | 6   | 90591A109_Zinc-Plated Steel Hex Nut                           |                                       |  |   |  |   | Acciaio                   |                           |  |   |  |   |  |
|              | 24           | 4   | 1942N403_Corrosion-Resistant Extension Springs with Hook Ends |                                       |  |   |  |   | Acciaio                   |                           |  |   |  |   |  |
|              | E            | 25  | 5   | MINI SERVO HV - 7.1KG                 |  |   |  |   |                           | Acciaio                   |  |   |  |   |  |
| 26           |              | 8   | 4668K326_Permanently Lubricated Stainless Steel Ball Bearing  |                                       |  |   |  |   | Acciaio                   |                           |  |   |  |   |  |
| 27           |              | 8   | 91292A264_18-8 Stainless Steel Socket Head Screw              |                                       |  |   |  |   | Acciaio                   |                           |  |   |  |   |  |
|              |              | 28  | 1   | Componente22 v3                       |  |   |  |   |                           | Plastica PC/ABS           |  |   |  |   |  |
|              | 29           | 1   | Arduino   |                                       |  |   |  |   | Default                   |                           |  |   |  |   |  |
|              | 30           | 1   | F35-2 Rocket Motor  |                                       |  |   |  |   | Acciaio                   |                           |  |   |  |   |  |
|              | F            | 31  | 1   | Esp8266                               |  |   |  |   |                           |                           |  |   |  |   |  |
| 32           |              | 1   | Schematic Sensore MPL3115A2                                   |                                       |  |   |  |   |                           |                           |  |   |  |   |  |
| 33           |              | 1   | Pickle Power Batteria RC 6V 2200mAh                           |                                       |  |   |  |   | Acciaio                   |                           |  |   |  |   |  |
|              |              |     |   |                                       |  |   |  |   |                           |                           |  |   |  |   |  |
| 1            |              | 2   |   | 3                                     |  | 4 |  | 5 |                           | 6                         |  | 7 |  | 8 |  |

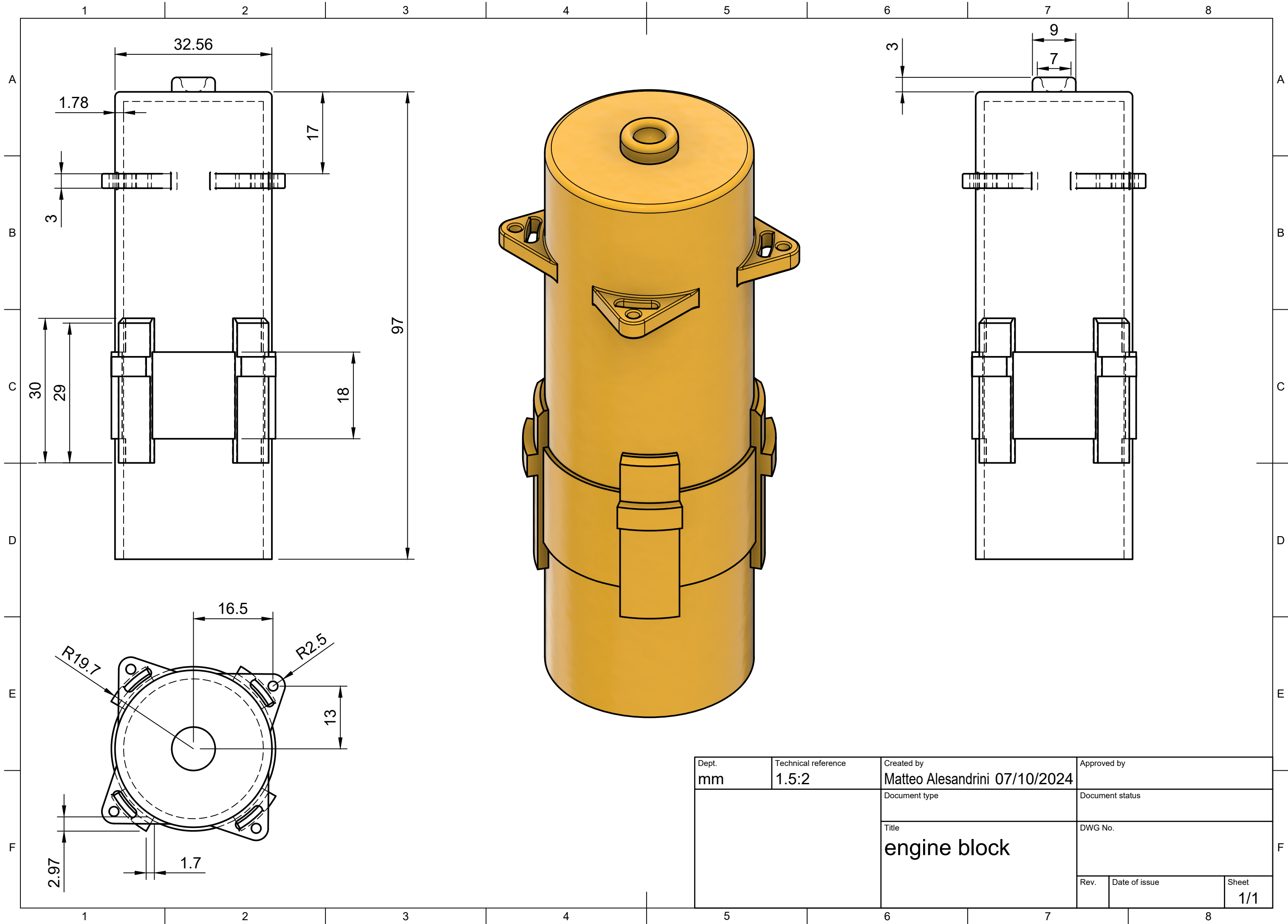




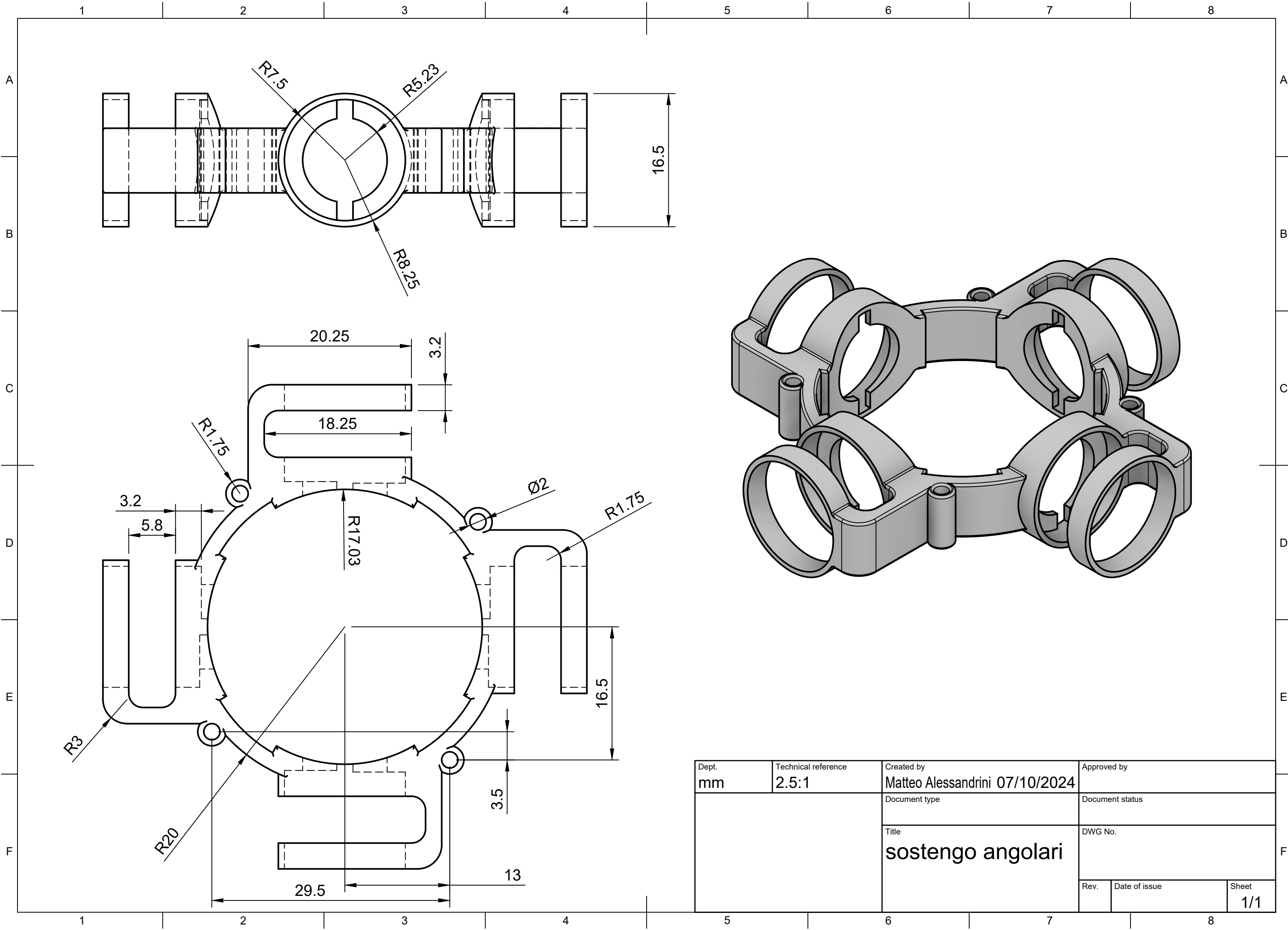
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| Dept.<br>mm | Technical reference | Created by<br>matte ale | 07/10/2024      | Approved by  |
|             |                     | Document type           | Document status |              |
|             |                     | Title<br>mezzo          | DWG No.         |              |
|             |                     | Rev.                    | Date of issue   | Sheet<br>1/1 |



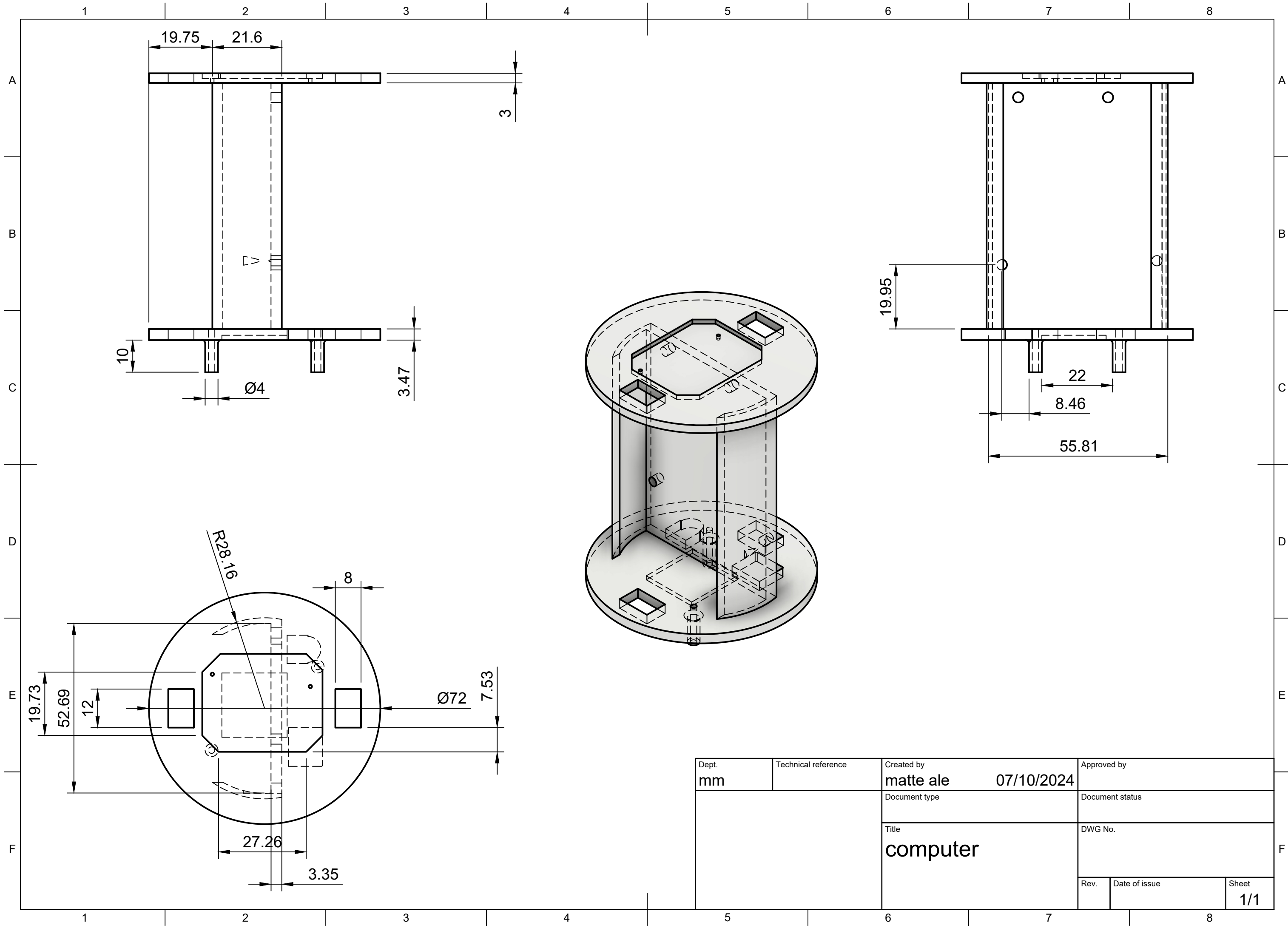




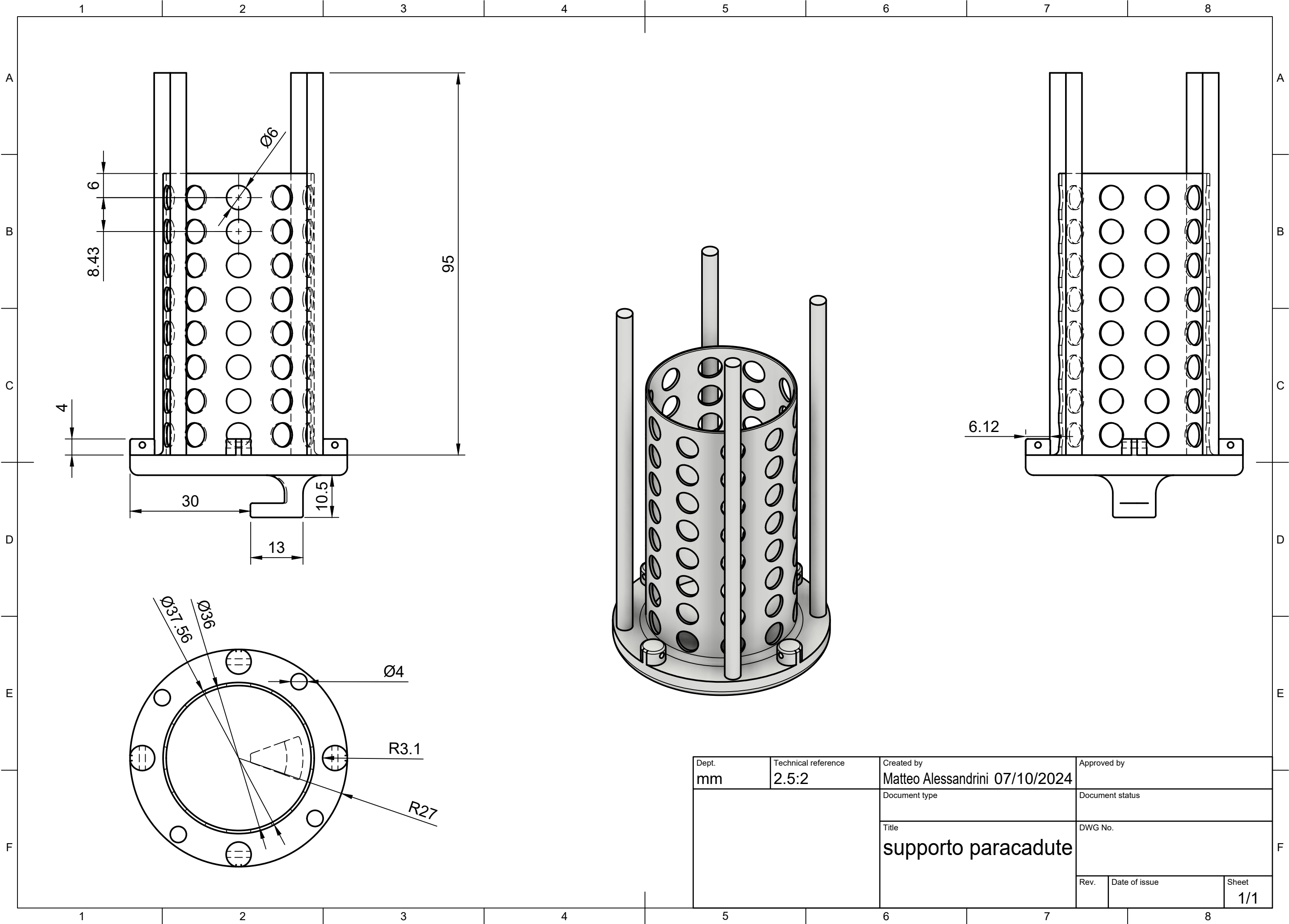




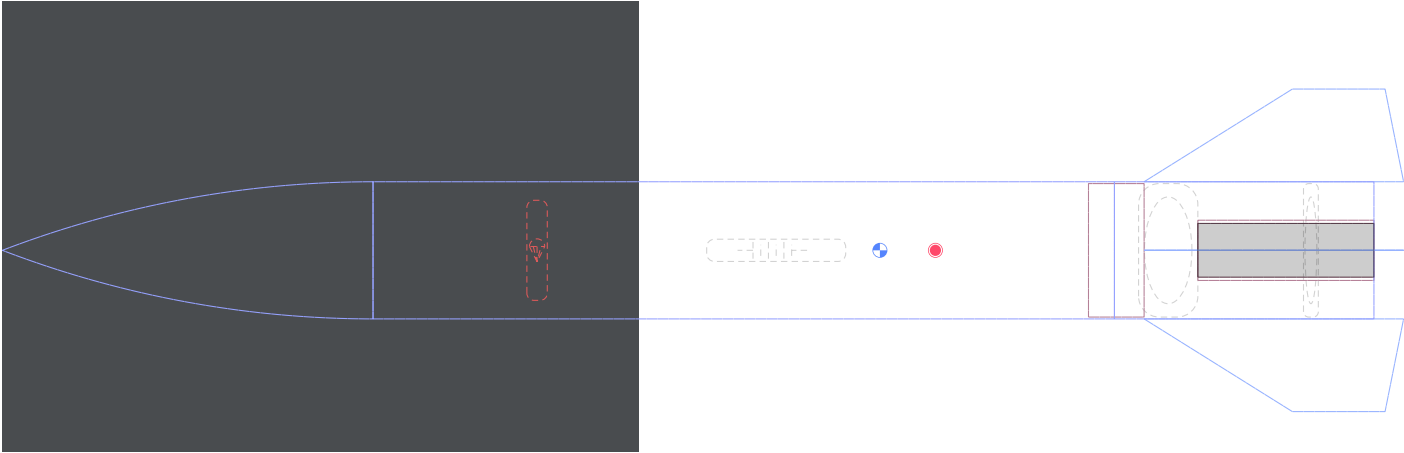
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| Dept. | Technical reference | Created by<br>matte ale | 07/10/2024      |               | Approved by  |  |  |
|       |                     | Document type           | Document status |               |              |  |  |
|       |                     | Title<br>Componente22   | DWG No.         |               |              |  |  |
|       |                     |                         | Rev.            | Date of issue | Sheet<br>1/1 |  |  |



|             |                     |                         |                 |              |
|-------------|---------------------|-------------------------|-----------------|--------------|
| Dept.<br>mm | Technical reference | Created by<br>matte ale | 07/10/2024      | Approved by  |
|             |                     | Document type           | Document status |              |
|             |                     | Title<br>computer       | DWG No.         |              |
|             |                     | Rev.                    | Date of issue   | Sheet<br>1/1 |



Rocket Design













razzo 2.0  
Stages: 1  
Mass (with motor): 809 g  
Stability: 0,405 cal / 3,96 %  
CG: 47,3 cm  
CP: 50,3 cm

F35-0

|                        |           |       |            |           |            |               |              |          |          |
|------------------------|-----------|-------|------------|-----------|------------|---------------|--------------|----------|----------|
| Altitude               | 220 m     | Motor | Avg Thrust | Burn Time | Max Thrust | Total Impulse | Thrust to Wt | Motor Wt | Size     |
| Flight Time            | 37,7 s    | F35   | 31,1 N     | 2,16 s    | 54,9 N     | 67 Ns         | 3,91:1       | 42,3 g   | 29/95 mm |
| Time to Apogee         | 7,47 s    |       |            |           |            |               |              |          |          |
| Optimum Delay          | 5,27 s    |       |            |           |            |               |              |          |          |
| Velocity off Pad       | 38,5 km/h |       |            |           |            |               |              |          |          |
| Max Velocity           | 215 km/h  |       |            |           |            |               |              |          |          |
| Velocity at Deployment | 9,95 km/h |       |            |           |            |               |              |          |          |
| Landing Velocity       | 26,5 km/h |       |            |           |            |               |              |          |          |

Parts Detail

Stadio: Principale

|   |                             |  |  |             |              |
|---|-----------------------------|--|--|-------------|--------------|
|    | Naso                        | Cartoncino<br>(0,68 g/cm³)                         | Ogiva  | Len: 20 cm  | Mass: 66 g   |
|    | Corpo                       | Cartoncino<br>(0,68 g/cm³)                         | Dia <sub>in</sub> 7,1 cm<br>Dia <sub>out</sub> 7,4 cm  | Len: 40 cm  | Mass: 106 g  |
|    | batteria e fligh controller |  | Dia <sub>out</sub> 1,2 cm                              |             | Mass: 297 g  |
|    | Paracadute con molle        | Ripstop nylon<br>(67 g/m²)                         | Dia <sub>out</sub> 60 cm                               | Len: 1,1 cm | Mass: 56 g   |
|   | Shroud Lines                | Elastico<br>(rotondo 2mm,<br>1/16 in)<br>(1,8 g/m) | Lines: 6   | Len: 30 cm  |              |
|    | Corpo                       | Cartoncino<br>(0,68 g/cm³)                         | Dia <sub>in</sub> 7,2 cm<br>Dia <sub>out</sub> 7,4 cm  | Len: 14 cm  | Mass: 36,2 g |
|    | Engine Block                | Cartoncino<br>(0,68 g/cm³)                         | Dia <sub>in</sub> 2,9 cm<br>Dia <sub>out</sub> 3,25 cm | Len: 9,5 cm | Mass: 20,6 g |
|    | servomotori                 |  | Dia <sub>out</sub> 7,2 cm                              |             | Mass: 52 g   |
|    | blocco servo                |  | Dia <sub>out</sub> 7,2 cm                              |             | Mass: 12 g   |
|    | Pinne a manolibera (4)      | Cartoncino<br>(0,68 g/cm³)                         | Thick: 0,3 cm  |             | Mass: 61 g   |
|  | Tubo accoppiatore           | Cartoncino<br>(0,68 g/cm³)                         | Dia <sub>in</sub> 7,2 cm<br>Dia <sub>out</sub> 7,2 cm  | Len: 3 cm   | Mass: 11 g   |

