SPECIFICATION HEDNO S.A.	INSTALLATION BOXES OF SINGLE PHASE AND THREE PHASE "SMART" ELECTRONIC LOW VOLTAGE METERS	ND/380/Rev. 29.04.2021

Issued by the Metering Branch	Network Department	

Contents

REVISIONS

Date	
26.06.2020	Drawings updates for the single and three phase "smart" meter boxes and drawings addition for three phase meter boxes of No 4(100A) and street light supplies.
29.04.2021	Drawings updates for the single and three phase "smart" meter boxes.

TECHNICAL SPECIFICATION HEDNO ND-380/29.04.2021 INSTALLATION BOXES OF SINGLE PHASE AND THREE-PHASE "SMART" ELECTRONIC LOW VOLTAGE METERS

1. SCOPE

This specification defines the manufacturing, testing, acceptance control and packing for transportation and delivery at HEDNO warehouses, of Polyester Boxes for the installation of housing single phase and three-phase "smart" electronic low voltage meters, which shall be used for the metering devices of low voltage supply customers.

2. KEYWORDS

Polyester Box for Meter Installation, Metering Device, Operating Voltage 230/400 V.

3. OPERATING CONDITIONS

3.1 GENERAL

The materials described in this specification shall be installed outdoors (uncovered) as well as indoors.

They shall be mounted vertically either on walls, on concrete or wooden poles, or other similar structures.

Prior to their installation, the materials may be stored in areas of any type: outdoors (either with or without a shed) or indoors (without heating or air-conditioning).

The electronic meters that will be used in metering devices will be electronic "smart" meters for connection to the L.V. network at which both the neutralization and the direct earth are applied.

The low voltage system operates with the neutral grounded and the electric power is mainly supplied with a frequency of 50 Hz and a voltage of 230 / 400 V in the case of households and small to medium industrial and commercial consumers.
The voltage may vary between -10% and +10%.

At this voltage, the supply can be a 3-phase or a single phase supply.

3.2 OPERATING - STORAGE TEMPERATURE

- The proper operation temperature zone for the boxes shall be between -25 °C and +55 °C.

- The storage and transport temperature zone shall be between -25°C and 70°C.

3.3 HUMIDITY

The boxes shall operate at an average annual relative humidity greater than 75%.

Moreover, for thirty (30) days in total interspersed within the year, the boxes shall operate under a relative humidity of 95%. Additionally, at random moments within the day, they shall operate under a relative humidity of 85%.

3.4 TABLE OF CLIMATIC AND ENVIRONMENTAL CONDITIONS

The climatic and environmental conditions, under which the boxes shall be installed and continuously operate in a satisfactory manner, are defined in the following table:

Maximum altitude	2000 m
Minimum ambient temperature	- 25° C
Average ambient temperature	20° C
Maximum ambient temperature	55° C
Maximum temperature at external surfaces due to solar radiation	70° C
Minimum relative humidity	5 %
Maximum relative humidity	95%

4. NORMS/STANDARDS - SPECIFICATIONS

The boxes and their accessories shall be industrial products manufactured and tested according to the European and International EN/IEC standards and to HEDNO Technical Specifications as mentioned below, which are valid on the day of bids submission.

The degree of protection that will provide, the properties of the materials to be used for their manufacturing, as also the final product shall comply with the standards mentioned above.

All tests shall be carried out according to the EN/IEC standards unless otherwise specified) that are valid on the day of bids submission.

The standards applying to this specification are as follows:

ASTM D256 or EN/ISO 180	Impact resistance of plastics and electrical insulating materials
ASTM D543	Resistance of plastics to chemical reagents.

or ISO 175	
ASTM D570 or ISO 62	Water absorption of plastics
ASTM D638 or EN ISO 527-4	Tensile properties of plastics.
ASTM D790 or EN ISO 178	Flexural properties of unreinforced and reinforced plastics and electrical insulating materials.
ASTM D792 or ISO 1183	Density and specific gravity (relative density) of plastics by displacement.
ASTM D1525 or ISO 306	Vicat softening temperature of plastics.
EN / IEC 60068-2-2	Basic environmental testing procedures. Part 2 : Tests, Tests B: Dry heat.
EN / IEC 60068-2-11	Basic environmental testing procedures. Part 2 : Tests, Tests ka : Salt mist.
EN / IEC 60068-2-14	Basic environmental testing procedures. Part 2 : Tests, Tests N: Change of temperature.
EN / IEC 60068-2-30	Basic environmental testing Procedures. Part 2: Tests, Test Db : Damp heat cyclic.
EN / IEC 60216	Guide for the determination of thermal endurance properties of electrical insulating materials.
EN / IEC 60243	Recommended methods of test for electric strength of solid insulating materials at power frequencies.
EN / IEC 60529	Classification of degrees of protection provided by enclosures
IEC 60410	Sampling plans and procedures for inspection by attributes.
EN / IEC 60695-2-1	Fire hazard testing. Part 2 : Test methods, Glow wire test and guidance.
EN / IEC 60695-2-2	Fire hazard testing. Part 2 : Test methods, Needle flame test.
IEC 60707 or UL 94	Methods of test for the determination of the flammability of solid electrical insulating materials when exposed to an igniting source. Flammability testing.
ELOT EN 50102	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code).
ELOT EN 50298	Empty enclosures for low voltage switching and control device sets - General requirements.
PPC Specification	Electrolytic zinc coating of iron or steel items.

X.K.11.01/11.11.87	
PPC Specification X.K. 11.04/23.10.92	Electrolytic tinning
PPC Specification GR-88/7.9.83	Bolted connector with notch for copper conductors.
IEC 60999	Connecting devices – Safety requirements for screw-type and screwless-type clamping units for electrical copper conductors.

In cases where the requirements of this Specification contradict with the above versions of International Standards or any other relevant Standards, the HEDNO specification shall prevail.

The boxes shall have the required markings according to the European Standards; they are also required to have the "CE" certification mark at a visible spot on their base and cover, according to Ministerial Decisions 470/85 (ONG issue 183/4.4.85) and 16717/5052/94 (ONG Issue 992/30.12.94).

Moreover, the box supplier shall submit a certificate from their factory, stating that it follows the procedures provided in ISO 9001 for the manufacture of the items made of glass fiber reinforced polyester using theCompression Moulding (SMC) method as raw material, accompanied with a valid ISO 9001 certificate for the production plant of the polyester (SMC) to be used in the production of the boxes.

5. DESCRIPTION

This specification relates to the following items:

- Single-phase "smart" electronic low voltage meter installation box.
- Three-phase "smart" electronic low voltage meter installation box.
- Three-phase "smart" electronic low voltage meter installation box for for No 4(100A) and street light supplies.

5.1 GENERAL REQUIREMENTS - GENERAL CHARACTERISTICS

5.1.1. Materials

All materials to be used for the manufacturing of the boxes shall be of very high quality, suitable for the specified purpose and operating conditions.

They shall be able to withstand the specified temperature and humidity without any deformation or damage, and without their mechanical and electrical properties been affected, beyond the specified limits.

The metallic parts that are susceptible to oxidization shall be effectively protected.

The protective coating to be used for this purpose shall not be degraded under normal use or over time under the specified operating conditions, thus losing its protective properties.

Non-metallic parts shall be made of non-hygroscopic material and provide protection against fire and propagation of flames that might occur internally or close to the material; they shall also comply with the requirements of EN/IEC 60707 standards, level FH 1 or UL 94 for class VO.

5.1.2. Manufacturing characteristics and finishing

The low voltage meter installation boxes shall be manufactured in a manner that provides strength and reliability, offers satisfactory mechanical protection against impacts and pressure and facilitates mounting of the box and installation of the meter of the micro circuit-breaker of rail and conductors.

All surfaces shall be free of defects, smooth and shiny.

The polyester material to be used for the manufacture of these boxes shall be reinforced with glass fiber type SMC and shall be of light gray color, similar to the colour that HEDNO uses for such boxes to date.

As electronic devices shall be housed in them (meter, equipped with load switch and communication device), the boxes to be manufactured shall comply with the specified increased water-tightness level.

In order to achieve the specified water-tightness a rubber gasket between the boxe’s base and the cover shall not be used.

All boxes shall provide sufficient ventilation to prevent condensation and limit the increase in temperature in their interior.

Ventilation shall be ensured by providing a suitable gap of 2-3 mm between the base and the cover according to the attached drawings.

5.1.3. Interchangeability

All parts comprising the box shall be fully interchangeable.

5.1.4. Safety requirements

The boxes shall be manufactured in order to provide, when they are installed, full protection against contact strains.

The external enclosure edges shall be rounded in order to avoid any injuries.

Due to the use of glass fiber in the polyester material, perforation of the material shall be generally avoided.

For this purpose, suitable removable circular parts for cable routing (knock-outs) shall be provided at the box base, which shall be visible on the outer side of the base.

Removing such parts shall be easy and for this purpose the wall thickness at those points shall be very small.

5.1.5. Applicable drawings

Apart from the general and special requirements, the material shall comply, regarding its basic dimensions, with the drawings attached to the drawings list 9.2 in the Appendix.

5.1.6. Drawings and information to be submitted

The bid shall be submitted together with a complete technical description addressing all requirements of this specification one-by-one, as well as detailed drawings showing the manufacturing of the material in general, its finishing and the materials from which it shall be manufactured.

The bids shall be necessarily accompanied by performance certificates for all suitability tests (both for the polyester raw materials and for the boxes) related to materials used for the manufacturing of the boxes, as specified in paragraph 6.2, which shall clearly show that the requirements of the specifications are met.

The supplier is required to inform us about the properties and characteristics of the materials they use for their manufacturing, and for this purpose they shall fill in and submit, together with their bid, Tables 9.1.2 and 9.1.4 (in the Appendix), replacing any asterisks with material properties.

The supplier is also required to submit, together with their bid, complete manufacture drawings in which all details of the boxes shall be thoroughly presented.

HEDNO reserves the right, after the opening of the technical offers, and always in cooperation with the suppliers to make any necessary improvements and corrections in the dimensions and to state any deficiencies regarding the technical specification.

The approved drawings by HEDNO, which will be produced by the above procedure, will form an integral part of their offer.

5.1.7. Spare parts

The suppliers shall ensure the availability of spare parts and accessories for a period of 10 years following the date of the last partial delivery of the material.

5.1.8. Box Sample Submission

The bids shall be accompanied, on penalty of rejection, with a sample of a finished box identical to those specified.

The above sample shall be submitted to the technical service of Network Department ND/ /Metering Systems Section, for evaluation.

The lowest bidder/s of the Firm is/are obliged to submit to our Service, prior to series production, complete samples for final approval.

The period intervening from the signing of the Contract until the sample submission from the Supplier shall in no case exceed the period of two (2) months and in case the Supplier is obliged to make any corrections and submit a new sample, the deadline shall not exceed the one month following the date of the rejection of the initial sample.

In case of failure of the new sample to meet the requirements of the technical specification, the said Contract shall be terminated.

5.2. SPECIAL REQUIREMENTS AND CHARACTERISTICS

5.2.1. General

This paragraph includes the special requirements and the specific characteristics of the boxes and their accompanying accessories.

Moreover, the boxes shall comply with the drawings attached to the drawings list 9.2 regarding the following:

- Design - Form
- Basic dimensions

- Locations of holes and inserts for mounting screws
- Markings
- Installation in array
- Provision of notches for easy detachment of enclosure parts
- Installation protection against water penetration
- Sufficient ventilation.

5.2.2. Special manufacturing characteristics

The box shall be manufactured with the Compression Moulding method, and shall be entirely made of high quality thermoset material and polyester type SMC in particular, reinforced with glass fiber.

The quantitative requirements regarding the properties of the glass fiber reinforced polyester to be used for the manufacturing of the box and for the boxes themselves, are described in the attached Table 9.1.1 in the Appendix.
Morphologically, the box dimensions shall comply with the attached drawings of list 9.2.

- Base (1 piece + 1 Connection terminal+ 1 support rail with 2 screws).
- Cover (1 piece + 1 safety screw)
- Basic accessories (1 full set)

The single-phase or three-phase electronic meter box shall be able to accommodate one single-phase or three-phase meter which shall be mounted with screws to the sockets of the box base which are used for the meter mounting and have bronze insert nuts of appropriate size, as well as one single-pole or three-pole micro circuit-breaker and an appropriate terminal block for connection of the incoming and outgoing earth-neutral cables.

The earth-neutral terminal blocks shall be made of tinned bronze according to PPC Specification X.K. 11.01/11.11.87.

Tinning shall be carried out according to PPC Technical Specification X.K. 11.04/23.10.92, with a thickness of at least 15 μm.

The terminals shall be suitable for tightening bundle- or single-core cables with cross-section between 6 and 16 mm^2, using cable connectors.

The details for the terminals are given in the attached drawing list 9.2.

A window for taking meter readings shall be provided at the upper part of the box cover.

The (transparent) window of box cover for taking meter readings shall be made of polycarbonate material in accordance with the attached drawings of the appendix.

In case of breaking, the window shall be easily replaced with a new interchangeable window.

For this purpose suitable holes shall be provided on the box cover, enabling easy installation and replacement of the window, as well as suitable grooves for sealing the window, as shown in the attached drawings.

The quantitative requirements regarding the properties of the polycarbonate to be used for the manufacturing of the window for taking meter readings, are described in the attached Table 9.1.3 in the Appendix.

At the lower part of the cover a sliding door shall be installed, enabling access to the micro circuit-breaker and easy rearmouring of the circuit-breaker.

The access door shall be lockable using a small lock.

When the door opens, it enables manual armouring of the micro circuit-breaker.

The (transparent) plastic cover of the micro circuit-breaker operating recess shall "snap" on closing in order to avoid its falling down if the customer has not secured it with a small lock.

The material of the door shall be the same as the window for taking the meter readings, i.e. polycarbonate, and its dimensions are given in the attached drawings.

Attached to the inner part of the cover shall be the access funnel (cup) for manual armouring of the micro circuit-breaker button, which shall be made of special plastic material.

The micro circuit-breaker access funnel shall be made of suitable self-quenching plastic material, with flammability index FH1 according to standards EN/IEC 60707 or VO according to the standard.

The access funnel shall be fitted on the box cover with special glue, which, however, shall not obstruct the easy sliding of the access door. Additionally, the access funnel shall be fastened on the box cover with appropriate bolts and bronze insert nuts.

The access funnel for the Three Phase Meter Boxes shall have appropriate knock outs for the installation of 100A micro circuit-breaker, as presented on the attached drawings.

The properties of the plastic material, the funnel dimensions and its fitting location on the cover are given in the attached drawings and in table 9.1.5.

The detachable box cover shall fit on the box base and shall be secured with a (safety) screw, with dimensions as shown in the attached drawings.
The screw shall be made of tinned bronze and it shall have a suitable hole on its head for passing the sealing wire.

The box shall be sealed with a special safety seal in order to prevent any illegal access to the internal of the box as well as any access from non-authorized persons, and to ensure protection against contact with live elements inside the box.

The HEDNO relief mark and the mounting holes for the Customer Note shall be on the surface of the box cover at the locations specified in the drawings attached in Appendix 9.2.

All bronze or copper items to be used shall be tinned according to Specification X.K. 11.04/23.10.92, while all metallic items shall be galvanized according to Specification X.K. 11.01, with average galvanization thickness 25 μm and chromium strength treatment of 96 h in salt mist according to Specification X.K. 11.03.

Bronze insert nuts of appropriate size shall be installed (built-in during casting of the polyester material) in all sockets of the box base used for mounting the meter according to DIN 16903.
The number of insert nuts and their installation positions on the box base are shown in the attached drawings of drawings list 9.2.

The support rail of the micro circuit-breaker shall be metallic and shall have two holes for its placement on the base of the box, and it shall also have stops at its upper and lower ends to prevent sliding of the circuit-breaker. The final approval of the dimensions and holes of the two (2) racks will take place when the successful tenderer's samples are approved.

The boxes shall be delivered with all accessories packed.

5.2.3. IP Degree of protection

The boxes shall be provided with a degree of protection equal at least to **IP 44** according to the regulations EN/IEC 60529.

All boxes shall bear at a prominent spot a ‘’CE’’ marking in accordance with those referred to in the Ministerial Resolutions 470/85 (ONG Issue 183/4.4.85) and 16717/5052/94 (ONG Issue 992/30.12.94).

5.2.4. Material

The meter boxes s shall be made of high quality thermoset material (polyester reinforced with glass fiber, type SMC).

The final composition of the polyester material to be selected for the manufacturing of the boxes shall providethe operating characteristics and shall meet the specific requirements necessary for the electrical equipment.

Thus, the boxes shall provide:

- Improved insulating capability
- High mechanical strength against impact and pressure
- Proper rigidity
- High resistance to chemicals, common solvents and ultraviolet radiation
- Low water absorption
- Resistance to aging (no change in dimensions and no deformation of the box)
- High operating temperature limit
- Resistance to heat and fire

The quantitative requirements regarding the above properties of the polyester materials that shall be used for the manufacturing of the boxes are given in Table 9.1.1, Appendix 9.

5.2.5. Accessories

Each box shall be delivered complete, with its cover, its base and the appropriate earth connection terminal mounted at its position and in one small plastic bag inside the box.

The small plastic bag shall contain all necessary screws for mounting the meter on the box base, the screws for the earth terminal, the screw for the box cover and the corresponding support rail for the micro circuit-breaker with its mounting screws.

6. TESTS

The manufacturer shall perform tests in order to establish that the material under bid (SMC) has the properties specified in Table 9.1.1 in the Appendix.

These tests may be repeated either partially or in total during the series production phase, at the discretion of the Supervision and at the Corporation's expenses.

In case of material failure the cost shall be borne by the supplier.
If it is ascertained that the material composition has been modified during the production phase, new tests shall be performed.

6.1. Design Tests

Not provided.

6.2. Type Tests

The bids shall necessarily be accompanied by certificates for all type tests performed which are related to the raw material (polyester) and to a finished box, which shall clearly show that the requirements of the specification are met.

All certificates issued by Tests, Research and Standards Centre (TRSC) or other accredited by independent private or public bodies laboratories specialized in plastic material tests shall be accepted.

Any bids not accompanied by the above certificates shall be rejected during the technical evaluation stage.

During the delivery stage of the first lot of each item, any type test may be performed at the supervision's discretion.

6.2.1. Type tests on raw material

6.2.1.1. Determination of impact breaking strength of the plastic materials used for the manufacturing of the boxes.

The test shall be performed according to Standards ASTM D256 (or EN/ISO 180) "Impact resistance of plastics and electrical insulating materials".

6.2.1.2. Determination of tensile breaking strength of the plastic materials used for the manufacturing of the boxes.

The test shall be performed according to Standards ASTM D638 (or EN/ISO D527-4) «Tensile properties of plastics ".

6.2.1.3. Determination of flexural yield strength of the plastic materials used for the manufacturing of the boxes.

The test shall be performed according to Standards ASTM D790 (or EN/ISO 178) "Flexural properties of unreinforced and reinforced plastics and electrical insulating materials".

6.2.1.4. Determination of density of the plastic materials used for the manufacturing of the boxes.

The test shall be performed according to Standards ASTM D792 (or EN/ISO 1183) "Density and Specific Gravity (Relative Density) of plastics by displacement".

6.2.1.5. Determination of the softening temperature of the plastic materials used for the manufacturing of the boxes.

The test shall be performed according to Standards ASTM D1525 (or EN/ISO 306) "Vicat softening temperature of plastics".

6.2.1.6. Determination of water absorption by the plastic materials used for the manufacturing of the boxes.

The test shall be performed according to Standards ASTM D570 (or EN/ISO 62) "Water absorption of plastics".

6.2.1.7. Test for confirmation of the resistance of the plastic materials used for the manufacturing of the boxes to acidic or alkaline chemical reagents and common solvents.

The test shall be performed according to Standards ASTM D543 (or EN/ISO 175) "Resistance of plastics to chemical reagents". The chemical reagents used for this test shall be those mentioned in paragraphs 5.3.5, 5.3.7, 5.3.8, 5.3.23, 5.3.28, 5.3.33, 5.3.42, 5.3.47, 5.3.50 of the relevant ASTM standards.

6.2.1.8. Determination of flammability level of the plastic materials used for the manufacturing of the boxes.

The test shall be performed as described in Standards EN/IEC 60707 "Methods of test for the determination of the flammability

of solid electrical insulating materials when exposed to an igniting source"

6.2.2. Type tests on finished product

All tests described below are considered as type tests. Note that these tests (either all or a certain number of them) shall be performed in the following order:

6.2.2.1. Confirmation of suitability of the boxes for use or storage under high temperature conditions.

The test shall be performed as described in Standards EN/IEC 60068-2-2 "Basic environmental testing procedures - Part 2: Tests - Test Bd: Dry heat".

The test shall be considered successful if no deformation of fault occurs either during or after the test, which might limit the functionality of the materials.
Moreover, following the recovery period, the plastic boxes shall successfully pass the impact test as described in paragraph 6.2.1.1.

6.2.2.2. Test for the impact of temperature change on the boxes.

The test shall be performed as described in Standards EN/IEC 60068-2-14 "Basic environmental testing procedures - Part 2: Tests - Test Nb: Change of temperature with specified rate of change".

The test shall be considered as successful if no deformation of fault occurs either during or following the test, which might limit the functionality of the materials.
Moreover, following the recovery period, the plastic boxes shall successfully pass the impact test as described in paragraph 6.2.1.1.

6.2.2.3. Test for the confirmation of protection level against external mechanical impacts (IK code).

This test shall be performed as described in Standards ELOT EN 50102, for protection level IK 10.

The impact energy shall be 20 Joules.

The test shall be performed at any point on the flat surface of the box (fully assembled with its cover in place).
The test shall be performed as described in paragraph 6.4. of the above mentioned standard EN 50102.

The test shall be considered successful if no indication of fault occurs, which might limit the functionality of the box.

Any slight deformation, which however does not reduce the protection against penetration of solid objects, dust or water, shall be accepted.

6.2.2.4. Test for protection against humidity and oxidation.

This test includes the following individual tests:

a. Humidity - temperature test.

The test shall be performed as described in Standards EN/IEC 60068-2-30: "Basic environmental testing procedure - Part 2 : Tests - Test Db and guidance: Damp heat cyclic, 12 + 12 hour cycle".

The boxes to be tested shall be mounted on a flat vertical surface with all screws provided by the manufacturer for this purpose. The test shall be performed on fully assembled boxes, with all metallic parts in place and their covers closed.

The test shall be considered successful if:

- Following the test, there is no indication of deformation, cracking or other fault on the plastic parts, which might limit their functionality.
- There is no indication of oxidation on metallic parts.

Moreover, following the recovery period, the boxes shall successfully pass the impact test (paragraph 6.2.1.1) and the dielectric breakdown voltage test as described in paragraph 6.2.2.6.

b. Salt mist test (for metallic parts)

The test shall be performed as described in Standards EN/IEC 60068-2-11: "Basic environmental testing procedure - Part 2 : Tests - Test Ka : Salt mist".
This test is performed in order to control the metallic components at the box base as well as at its door, so it must be performed with the door open.

The test shall be considered successful if no indication of oxidation occurs on the metallic parts.

6.2.2.5. Test for protection against penetration of solid objects, dust and water.

The boxes shall be mounted on a flat vertical surface with all screws provided by the manufacturer for this purpose.
These tests shall be performed on fully assembled boxes, with their metallic parts in place and their cover, for protection degree IP 44, according to Standard EN/IEC 60529.
These tests consist of the following individual tests:

a. Protection against penetration of solid objects and dust.

The test shall be performed as described in EN/IEC 60529 "Classification of degrees of protection provided by enclosures".

b. Protection against water penetration.

The test shall be performed as described in EN/IEC 60529 according to the required degree of protection.

6.2.2.6. Dielectric strength test

This test shall be performed as described in EN/IEC 60243 "Recommended methods of test for the electric strength of solid insulating materials at power frequencies".

- The voltage rise rate shall be 1kV/sec (test on polyester raw material).

- Using a voltage of 4 kV for 1 min (test on finished box).

6.2.2.7. Tests for resistance to heat and fire

The following tests shall be performed on the plastic parts of the box:

a. Glow wire test

The test shall be performed in a way as described in EN/IEC 60695-2-1 "Fire hazard testing - Part 2: Test methods - Glow wire test and guidance".

b. Needle flame test

The test shall be performed as described in EN/IEC 60695-2-2: "Fire hazard testing - Part 2 : Test methods - Needle flame test".

The test burner flame shall be placed exactly as shown in figure 1.c of the relevant IEC standard.

6.2.2.8. Confirmation of compliance of the box dimensions with the approved manufacture drawings.

6.3. Sampling tests

6.3.1. Acceptance tests

The acceptance tests are as follows:

a. Visual control

The boxes shall be visually inspected in order to confirm that:

- There is no trace of damage or deformation at any point
- The outer surfaces are smooth and free of defects
- There are no indications of faulty casting
- Marking is correct and complies with the requirements of the specification
- All accessories are included

b. Confirmation of interchangeability on pieces of the same type.

c. Performance of the tests of paragraphs 6.2.2.2, 6.2.2.9, 6.2.2.3, 6.2.2.5, 6.2.2.6, 6.2.2.7.

6.3.2. Sampling

The above acceptance tests shall be carried out on a randomly selected sample from the lot to be received, according to EN/IEC 60410 and with the following criteria:

- Control level II (table I, IEC 410).
- Simple or double sampling plans (tables II and III, IEC 410).
- Acceptable quality level AQL = 1.0, for each test separately.

In the event of failure on some acceptance tests that entails the rejection of the lot or in the event of poor experience from previous use of the material, it is required to perform those suitability tests related to the failure or poor experience.

In this case the suitability tests shall be performed on three plastic boxes randomly selected from the next lot, prior to its receipt.

In case one of the plastic boxes from the sample of three fails, even in one point of a single test, the suitability tests shall be repeated on a sample of two boxes.

In case a second failure occurs, the lot shall be rejected.
It must be noted that the lots coincide with the partial deliveries of the material.

6.4. Series tests

Not applicable.

7. SIGNS - MARKING

7.1 Signs

No signs are provided for.

7.2. Marking

Each box shall have the following relief or engraved indications at a visible spot (at the base or the door), which shall be designated by HEDNO:

- The HEDNO logo
- The Contract number and the lot index number
- The manufacturer's Name or logo
- The HEDNO material code number

The exact dimensions of all markings and their exact positions are specified in drawings 9.2. in the appendix.

According to paragraph 5.2.1 of the Specification, the above material shall have the following numbers (relief or engraved) at a suitable spot so that the proper fitting and water-tightness of the box is not affected:

HEDNO MATERIAL CODE

K.Y. 4540002050 on single-phase boxes
K.Y. 4540002055 on three-phase boxes
K.Y. 4540002138 on three-phase boxes of No 4(100A) and street light supplies

8. PACKING

Boxes shall be delivered fully assembled.
Each box shall be carefully packed in a plastic bag and then placed on EU palettes and delivered so that the total weight per palette does not exceed 550 kg.

These boxes shall be externally and indelibly marked with the Contract number, the material Code, the Manufacturer's Data.

Using the above packing, it shall be also possible to store the boxes at open spaces without additional protection against weather conditions (rain or moisture).

9. APPENDICESS

9.1. TABLES

TABLE 9.1.1 - MATERIAL PROPERTIES AND QUANTITIES FOR ITS TESTS (polyester reinforced with glass fiber of SMC type)

Index	Characteristic or test	Specification paragraph	Standard	Units		Values
1	Impact breaking strength (Reversed Notch Izod)	6.2.1.1	ASTM D256 ή EN ISO 180	ft * lbf ---------- in. of Width KJ/m^2		= 11 > 50
2	Tensile breaking strength	6.2.1.2	ASTM D638 ή EN ISO 527-4	P.S.I. Mpa		min. 9.000 min 61
3	Flexural yield strength	6.2.1.3	ASTM D790 ή EN ISO 178	P.S.I. Mpa		min. 20.000 min 138
4	Density	6.2.1.4	ASTM D792 ή ISO 1183	gr/cm^3		1,7-1,8
5	Thermal strength (Softening) Vicat (Method B)	6.2.1.6	ASTM D1525 ή ISO 306	^oC		130
6	Water absorption 24h/23°C	6.2.1.7	ASTM D570 ή ISO 62	%		0,5
7	Impact of solvents and chemical reagents	6.2.1.8	ASTM D543 ή ISO 175	-		No effect on functionality
8	Material flammability	6.2.1.9	IEC 60707 ή UL 94	Level Class		FH 1 V0
9	Test in hot and dry environment (Bd Test)	6.2.2.1	EN / IEC 60068-2-2	^oC - hrs		100-16
10	Temperature variation test	6.2.2.2	EN / IEC	^oC		min. –25

	(Nb Test)		**60068-2-14**			**max. +75**
11	**Level of protection against impact (IK code)**	**6.2.2.3**	**EN 50102**	**Level**		**IK 10**
12a	**Test in hot and wet environment (Bd Test) Variation 1**	**6.2.2.4.α**	**EN / IEC 60068-2-30**	**^{O}C - cycles**		**55 – 8**
12b	**Salt mist test (Ka Test)**	**6.2.2.4.β**	**EN / IEC 60068-2-11**	**Weeks**		**2**
13	**Level of Protection**	**6.2.2.5**	**EN / IEC 60529**	**--**		**IP 44**
14	**Dielectric strength**	**6.2.2.6**	**EN / IEC 60243**	**KV / mm**		**min 12**
15a	**Glow wire test**	**6.2.2.7.α**	**EN / IEC 60695-2-1**	**^{O}C**		**960**
15b	**Needle flame test**	**6.2.2.7.β**	**EN / IEC 60695-2-2**	**Sec**		**30**

TABLE 9.1.2 - MATERIAL REQUIREMENTS AND QUANTITIES FOR ITS TESTS (polyester reinforced with glass fiber of SMC type)

(TO BE FILLED-IN BY THE SUPPLIER)

Index	Characteristic or test	Specification paragraph	Standard	Units	Values
1	Impact breaking strength (Reversed Notch Izod)	6.2.1.1	ASTM D256 ή EN ISO 180	ft * lbf ---------- ----- in. of Width KJ/m^2	*
2	Tensile breaking strength	6.2.1.2	ASTM D638 ή EN ISO 527-4	P.S.I. Mpa	*
3	Flexural yield strength	6.2.1.3	ASTM D790 ή EN ISO 178	P.S.I. Mpa	*
4	Density	6.2.1.4	ASTM D792 ή ISO 1183	gr/cm^3	*
5	Thermal strength (Softening) Vicat (Method B)	6.2.1.6	ASTM D1525 ή ISO 306	^{O}C	*
6	Water absorption 24h/23°C	6.2.1.7	ASTM D570 ή ISO 62	%	*
7	Impact of solvents and chemical reagents	6.2.1.8	ASTM D543 ή ISO 175	-	*
8	Material flammability	6.2.1.9	IEC 60707 ή UL 94	Level Class	*
9	Test in hot and dry environment (Bd Test)	6.2.2.1	EN / IEC 60068-2-2	^{O}C - hrs	*
	Temperature				

10	**variation test (Nb Test)**	**6.2.2.2**	**EN / IEC 60068-2-14**	**^{O}C**	*****
11	**Level of protection against impact (IK code)**	**6.2.2.3**	**EN 50102**	**Level**	*****
12a	**Test in hot and wet environment (Bd Test) Variation 1**	**6.2.2.4.a**	**EN / IEC 60068-2-30**	**^{O}C - CYCLES**	*****
12b	**Salt mist test (Ka Test)**	**6.2.2.4.b**	**EN / IEC 60068-2-11**	**weeks**	*****
13	**Level of Protection**	**6.2.2.5**	**EN / IEC 60529**	**--**	*****
14	**Dielectric strength**	**6.2.2.6**	**EN / IEC 60243**	**KV / mm**	*****
15a	**Glow wire test**	**6.2.2.7.a**	**EN / IEC 60695-2-1**	**^{O}C**	*****
15b	**Needle flame test**	**6.2.2.7.b**	**EN / IEC 60695-2-2**	**Sec**	*****

TABLE 9.1.3 - MATERIAL PROPERTIES AND QUANTITIES FOR ITS TESTS (Polycarbonate – Readings window & Access door)

Index	Characteristic or test	Specification paragraph	Standard	Units	Values
1	Impact breaking strength (Izod notched Impact strength at 23 °C, 3.2 mm wall section)	6.2.1.1	ASTM D256	KJ /m ^{2}	> 20
2	Dielectric strength	6.2.2.6	IEC 243	KV / mm	Min 12
3	Material flammability	6.2.1.9	IEC 707 ΄H UL 94	Level Or Class (mm)	FH 1 ΄H V-2 , 3mm
	Special characteristics:				
1	Clear (Visual Control)				Remains functional
2	Stable under UV radiation				Remains functional
3	Stable under weather conditions				Remains functional

TABLE 9.1.4 - MATERIAL REQUIREMENTS AND QUANTITIES FOR ITS TESTS (Polycarbonate – Readings window & MCB door)

(TO BE FILLED-IN BY THE SUPPLIER)

Index	Characteristic or test	Specification paragraph	Standard	Units	Values
1	Impact breaking strength (Izod notched Impact strenght at 23 °C, 3.2 mm wall section)	6.2.1.1	ASTM D256	KJ /m ^{2}	*
2	Dielectric strength	6.2.2.6	IEC 243	KV / mm	*
3	Material flammability	6.2.1.9	IEC 707 ΄H UL 94	Level ΄H Class (mm)	*
	Special characteristics :				
1	Clear (Visual Control)				*
2	Stable under UV radiation				*
3	Stable under weather conditions				*

TABLE 9.1.5 - MATERIAL PROPERTIES AND QUANTITIES FOR ITS TESTS (Plastic access funnel)

Index	Characteristic or test	Specification paragraph	Standard	Units	Values
1	Dielectric strength	4.3.1.6	EN/IEC 243	kV / mm	Min 12
2	Material flammability	4.2.1.11	EN/IEC 60707 ή UL 94	Level	FH 1

TABLE 9.1.6 - MATERIAL REQUIREMENTS AND QUANTITIES FOR ITS TESTS (Plastic access funnel)

(TO BE FILLED-IN BY THE SUPPLIER)

Index	Characteristic or test	Specification paragraph	Standard	Units	Values
1	Dielectric strength	4.3.1.6	EN/IEC 243	kV / mm	*
2	Material flammability	4.2.1.11	EN/IEC 60707 ή UL 94	Level	*

9.2. DRAWINGS LIST

9.2.1. Drawings for single-phase boxes:

Full box ..... Drawing no
Three dimension view .... 2.1.

Box base ..... Drawing no
- **Base underneath view ..... 2.1.1.**
- **Base plan view ..... 2.1.2.**
- **Base section A-A ..... 2.1.3.**
- **Base sectionB-B..... 2.1.4.**
- **Base right side view ..... 2.1.5.**

Box door ..... Drawing no
- **Cover plan view..... 2.2.1.**
- **Cover underneath view..... 2.2.2.**
- **Cover section A-A ..... 2.2.3.**
- **Cover section B-B ..... 2.2.4.**
- **Cover right side view ..... 2.2.5.**
- **Three dimension view .....2.2.6.**

Readings window ....Drawing no
- **Window plan view ..... 2.3.1.**
- **Window section A-A ..... 2.3.2.**
- **Window right side view ..... 2.3.3.**
- **Three dimension view .....2.3.4.**

Access door, funnel (cup) for the MCB and rail.... Drawing no
- **Door..... .....2.4.1.**
- **Funnel ....2.4.2.**
- **Rail.....2.4.3.**
- **Funnel Support .....2.4.4.**

Earth-neutral connection terminal..... ..Drawing no
- **Earth terminal..... .... 2.5.1.**
- **Safety screw ....2.5.2.**

9.2.2. Drawings for three-phase boxes

Full box.....Drawing no

Three dimension view .....3.1.

Box base .....Drawing no

- **Base underneath view .....3.1.1.**
- **Base plan view .....3.1.2.**
- **Base section A-A.....3.1.3.**
- **Base sectionB-B.....3.1.4.**
- **Base right side view .....3.1.5.**

Box door ..... Drawing no

- **Cover plan view.....3.2.1.**
- **Cover underneath view.....3.2.2.**
- **Cover section A-A .....2.2.3.**
- **Cover section B-B .....3.2.4.**
- **Cover right side view .....3.2.5.**
- **Three dimension view.....3.2.6.**

Readings window .....Drawing no

- **Window plan view .....3.3.1.**
- **Window section A-A .....3.3.2.**
- **Window right side view .....3.3.3.**
- **Three dimension view.....3.3.4.**

Access door, funnel (cup) for the MCB and rail.....Drawing no

- **Door..... .....3.4.1.**
- **Funnel ....3.4.2.**
- **Rail.....3.4.3.**
- **Funnel Support .....3.4.4.**

Earth-neutral connection terminal.....Drawing no

- **Earth terminal..... .... 3.5.1.**
- **Safety screw..... .....3.5.2.**

9.2.3. Drawings for three-phase boxes No 4 supplies (100A) & Street Lighting

Full box.....Drawing no

Three dimension view .....3.2.

Box base.....Drawing no

- **Base underneath view .....3.1.1.**
- **Base plan view 100A /Street Lighting .....3.1.6.**
- **Base section A-A 100A /Street Lighting .....3.1.7.**
- **Base sectionB-B 100A /Street Lighting .....3.1.8.**
- **Base right side view 100A /Street Lighting .....3.1.9.**
- **Base plan view 100A /Street Lighting .....3.1.10.**

Box door ..... Drawing no

- **Cover plan view.....3.2.1.**
- **Cover underneath view.....3.2.2.**
- **Cover section A-A .....2.2.3.**
- **Cover section B-B .....3.2.4.**
- **Cover right side view .....3.2.5.**
- **Three dimension view.....3.2.6.**

Readings window .....Drawing no

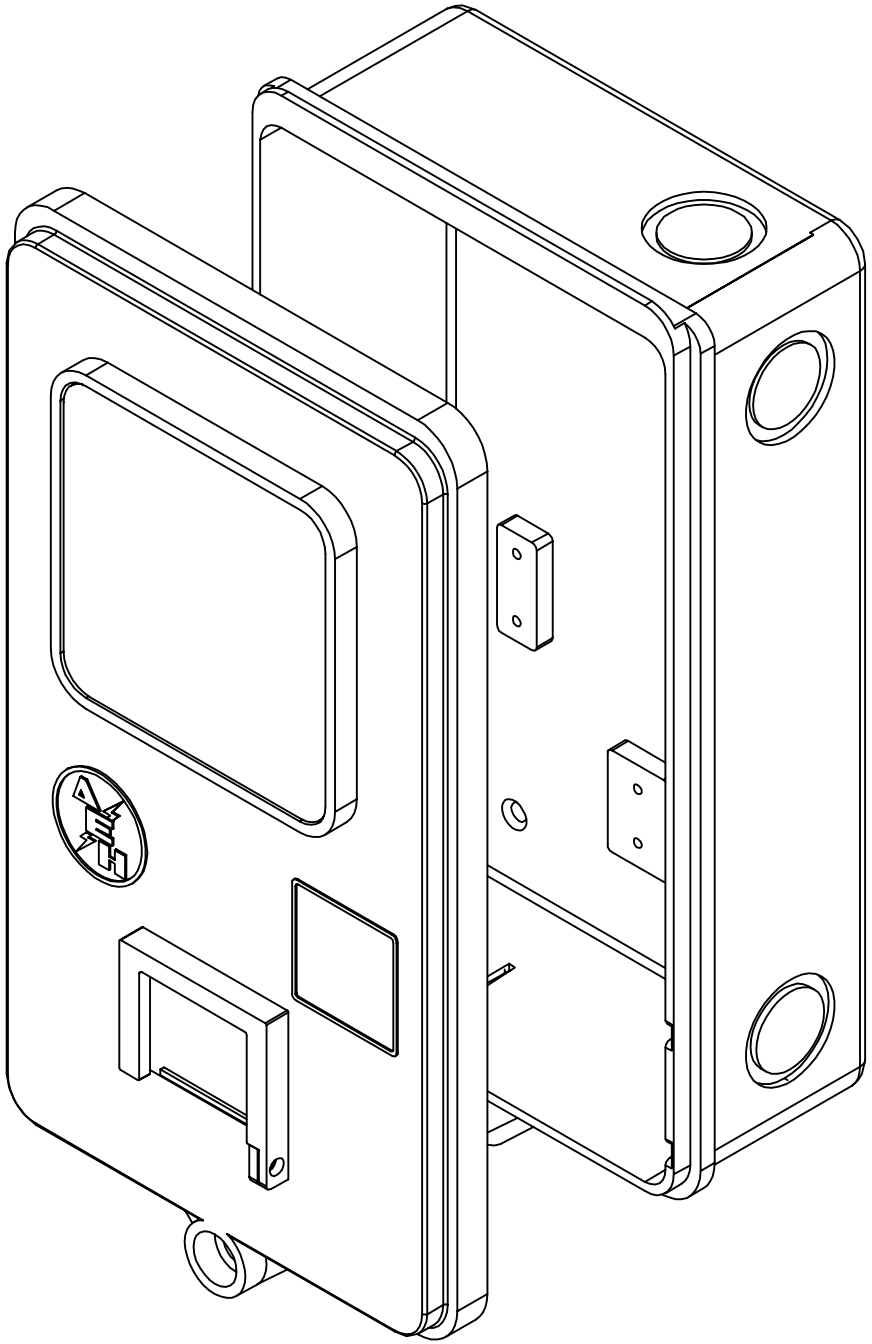
- **Window plan view .....3.3.1.**
- **Window section A-A .....3.3.2.**
- **Window right side view .....3.3.3.**
- **Three dimension view.....3.3.4.**

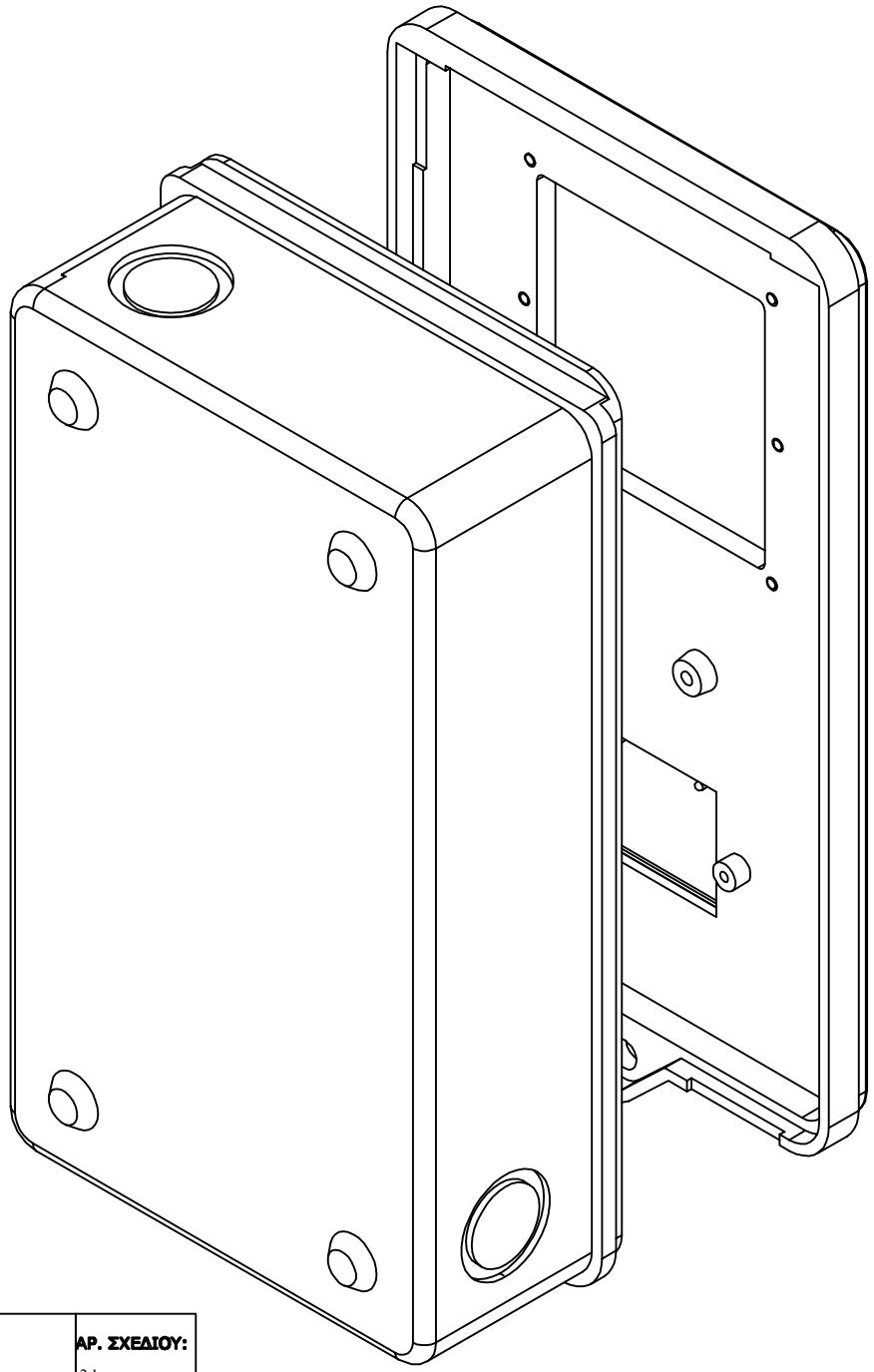
Access door, funnel (cup) for the MCB and rail.....Drawing no

- **Door..... .....3.4.1.**
- **Funnel Support .....3.4.4.**
- **Funnel 100A /Street Lighting ....3.4.5.**
- **Rail 100A /Street Lighting.....3.4.6.**

Earth-neutral connection terminal.....Drawing no

- **Earth terminal..... .... 3.5.1.**
- **Safety screw..... .....3.5.2.**





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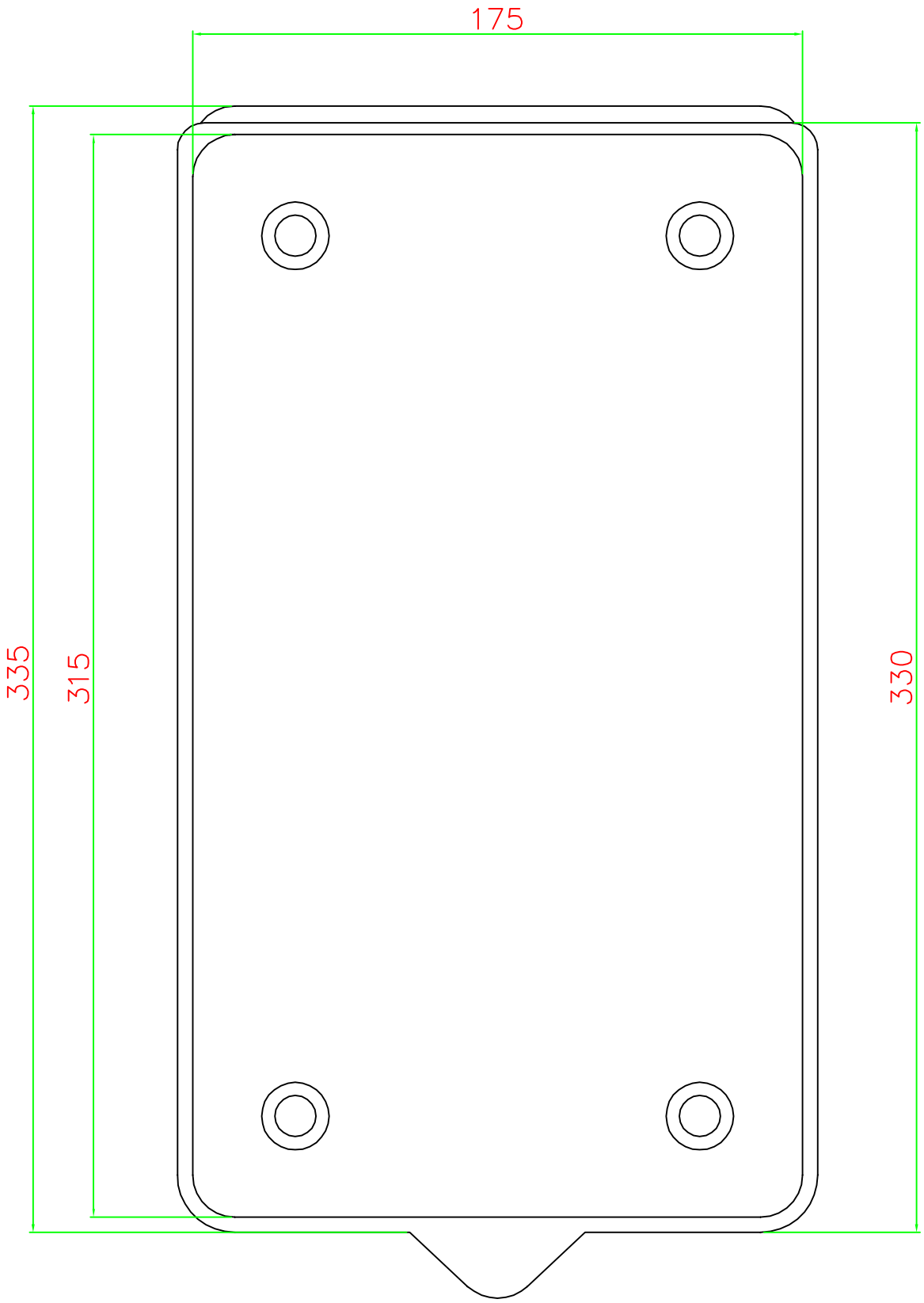

ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 2.1.1
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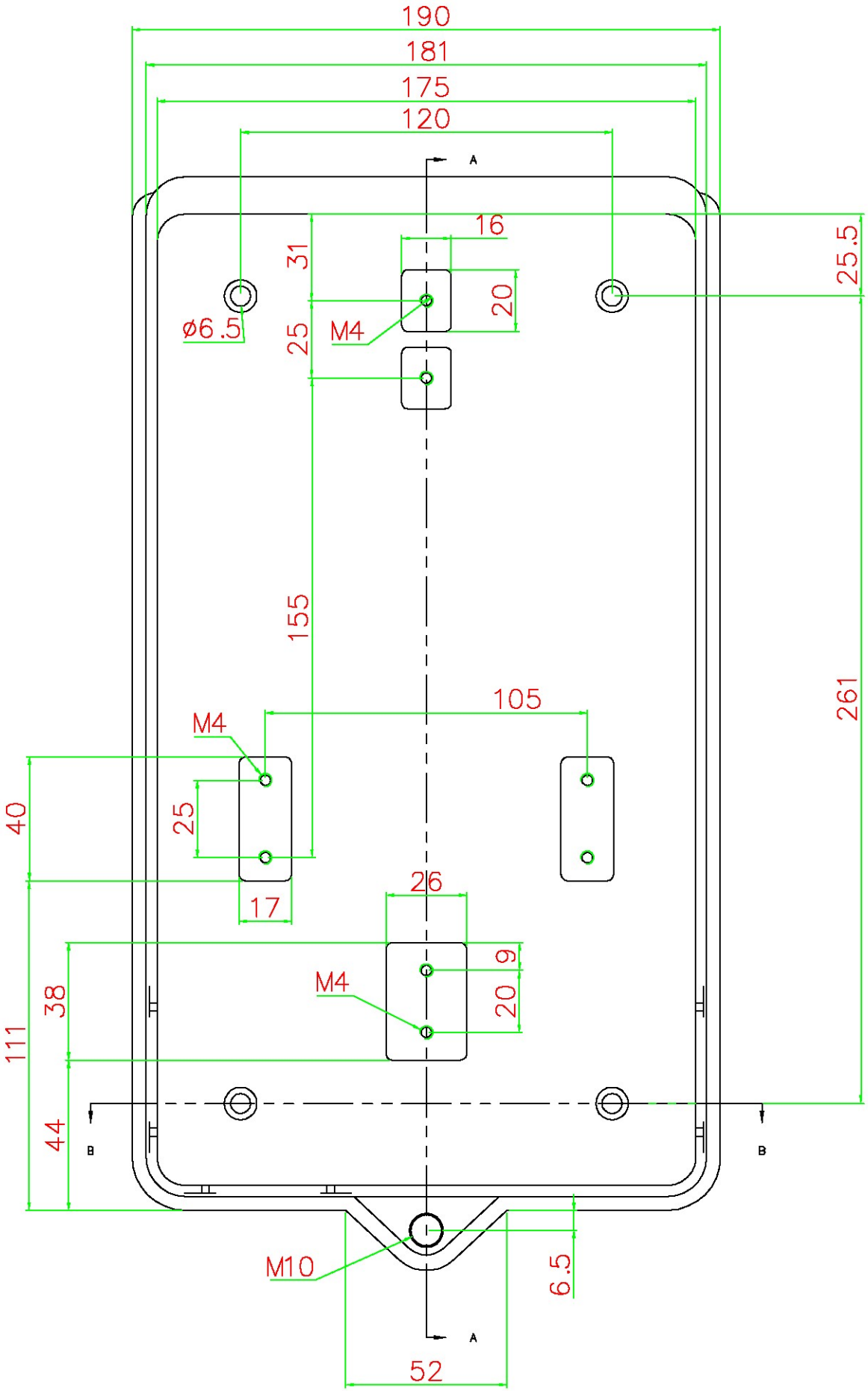

ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 2.1.2
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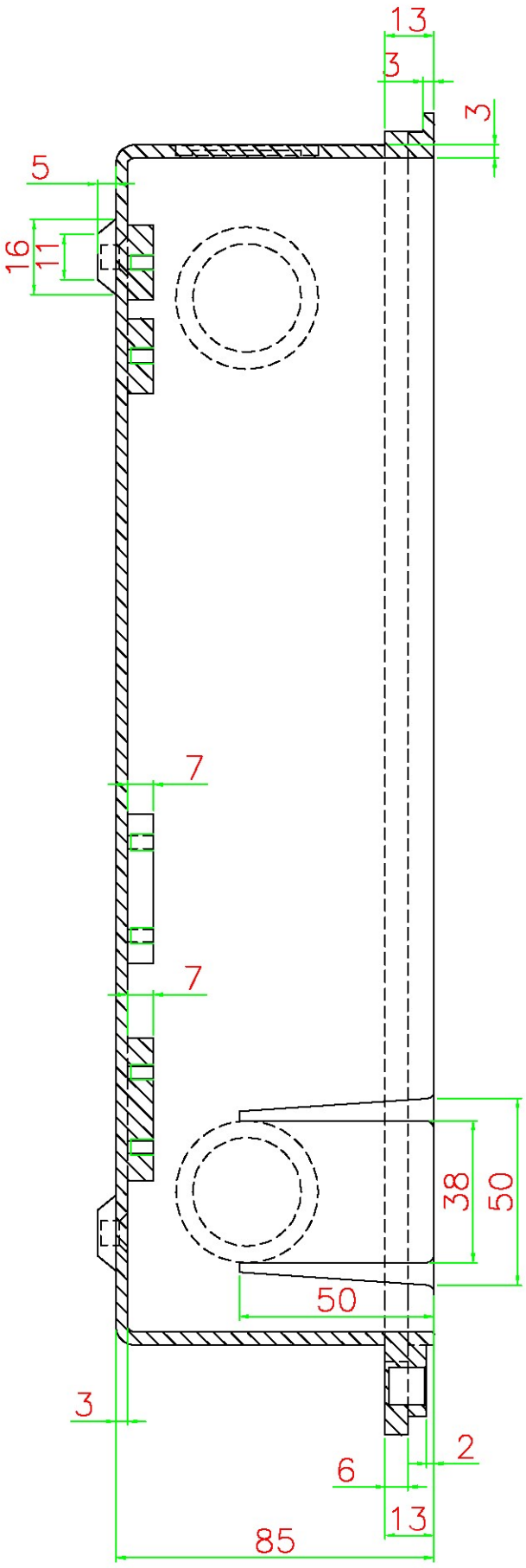

ΣΕΧΤΙΟΝ Α–Α

ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 2.1.3
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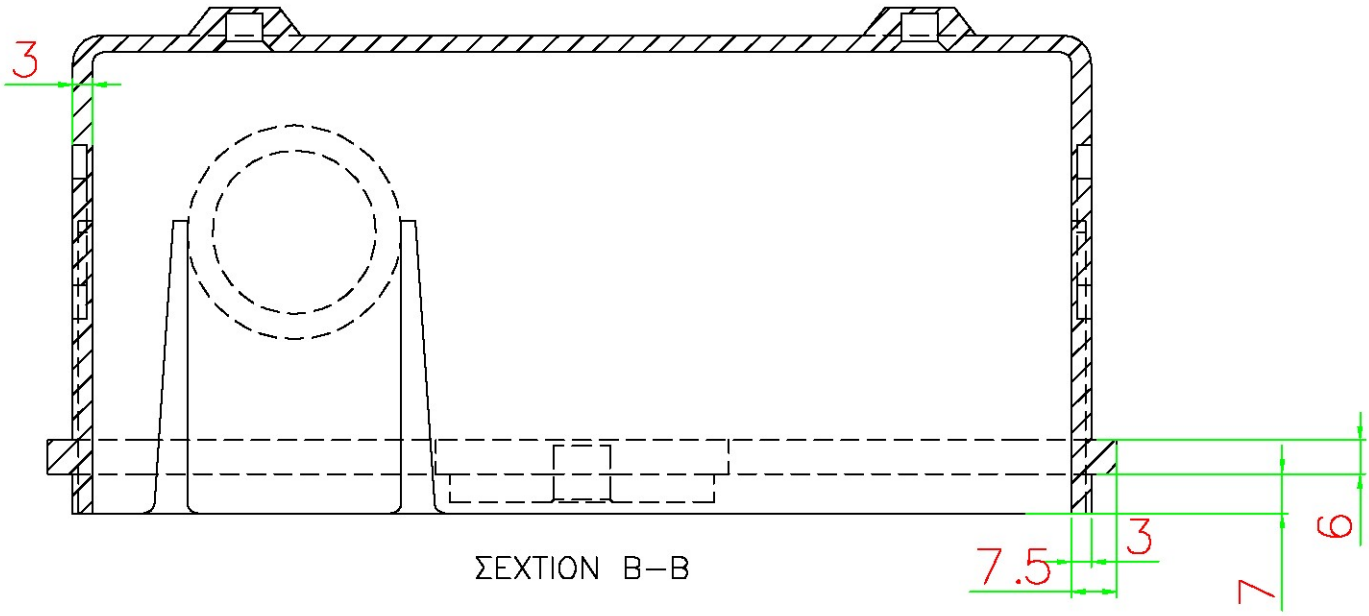

ΣΕΧΤΙΟΝ Β–Β

ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 2.1.4
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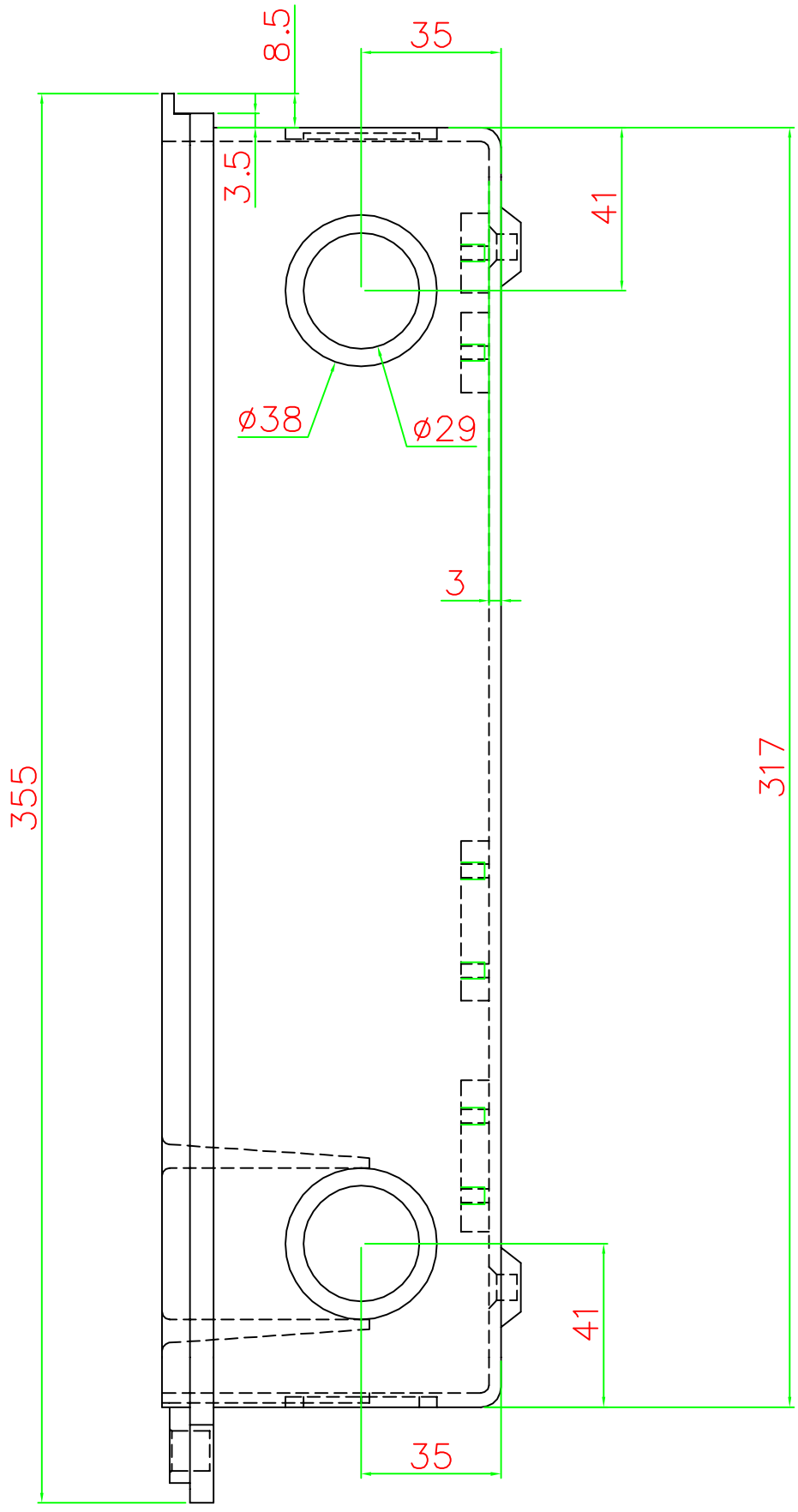

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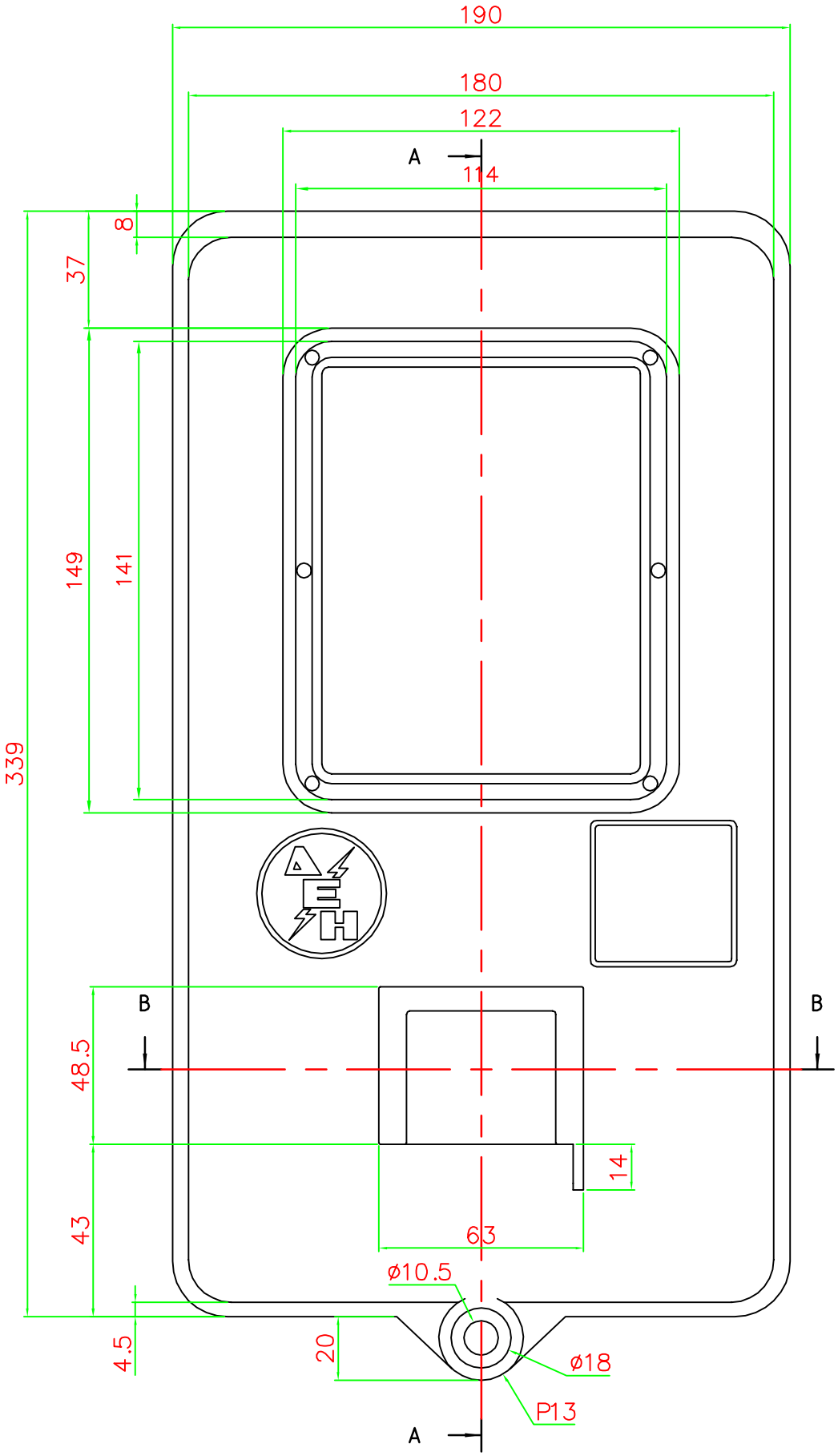

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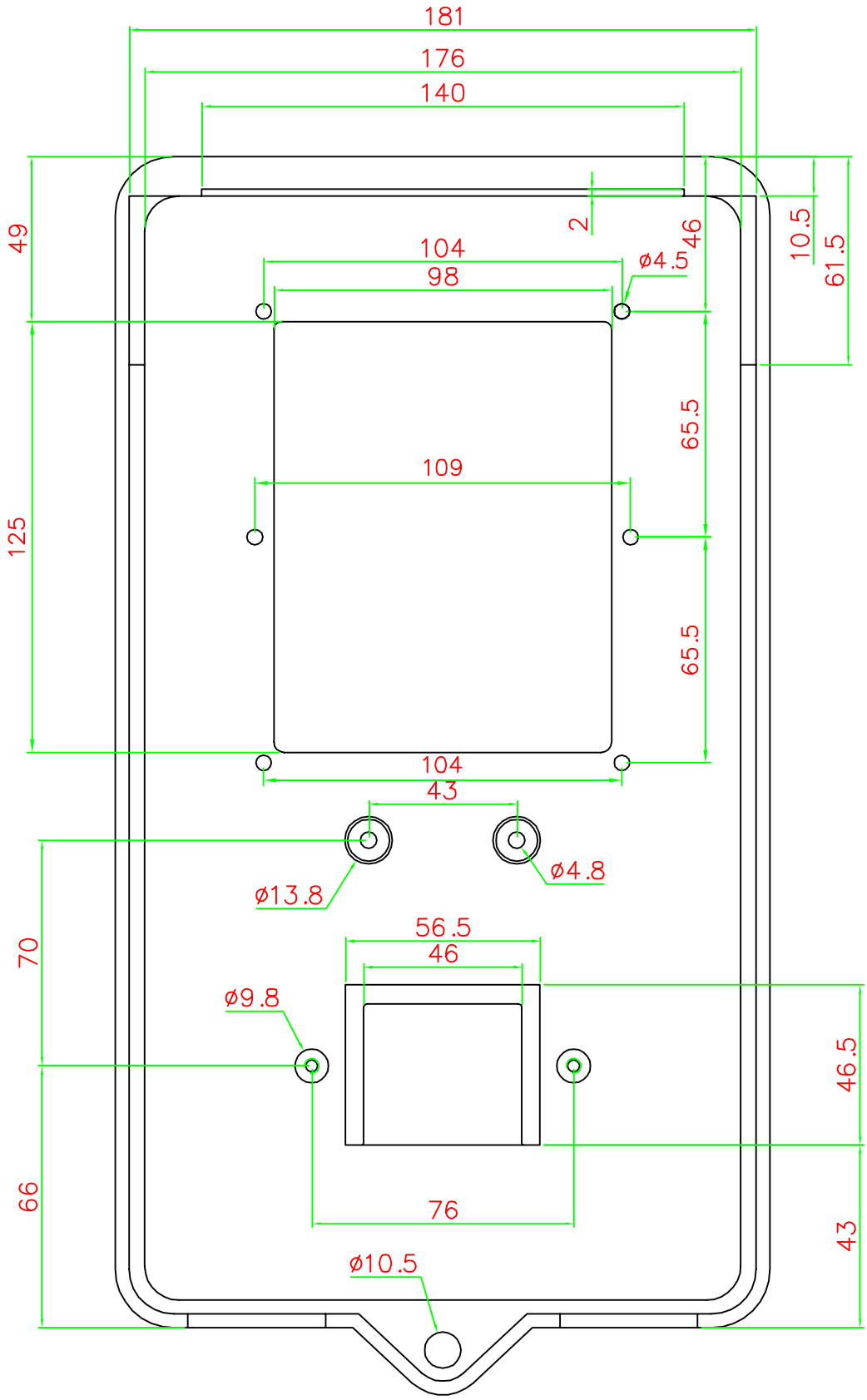

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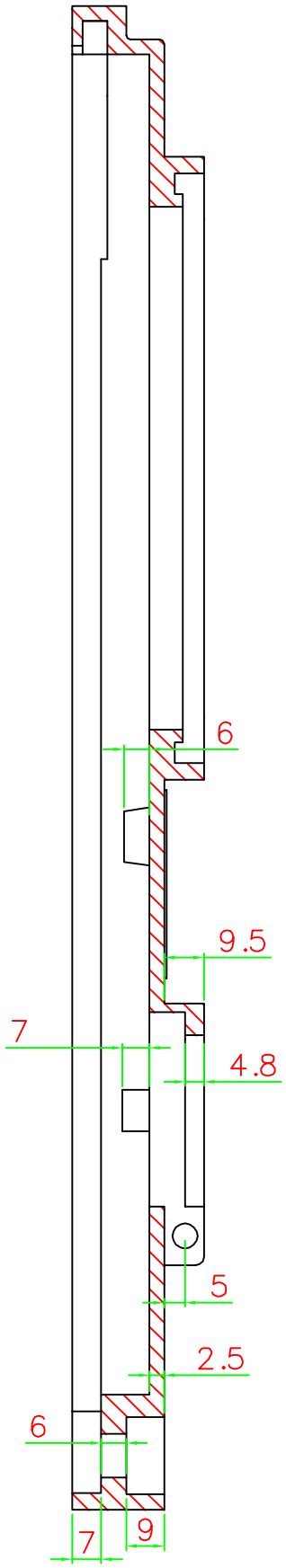

A-A

ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 2.2.3
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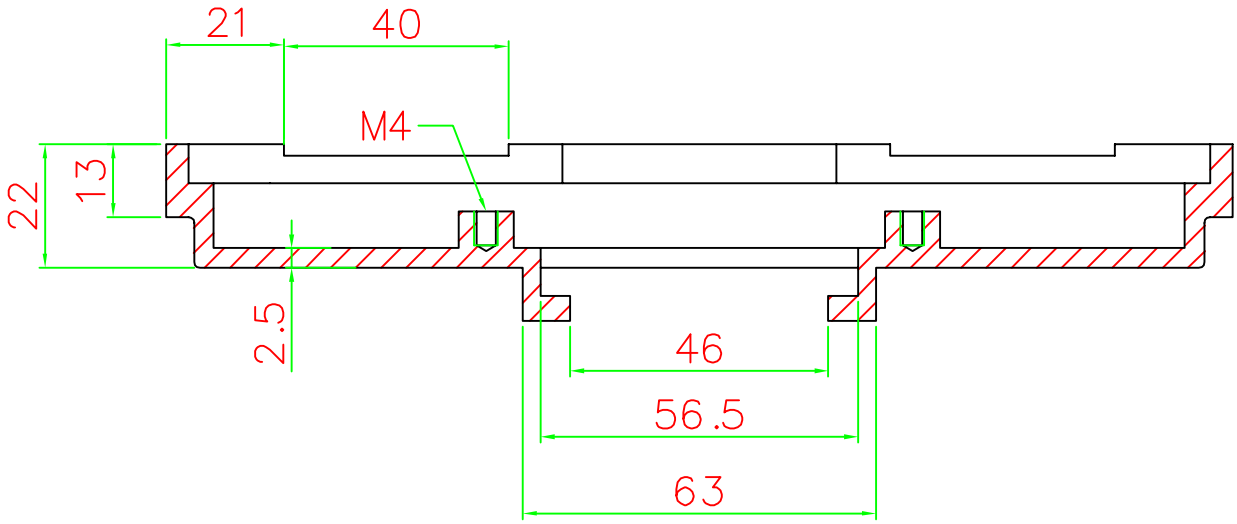

B-B

ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 2.2.4
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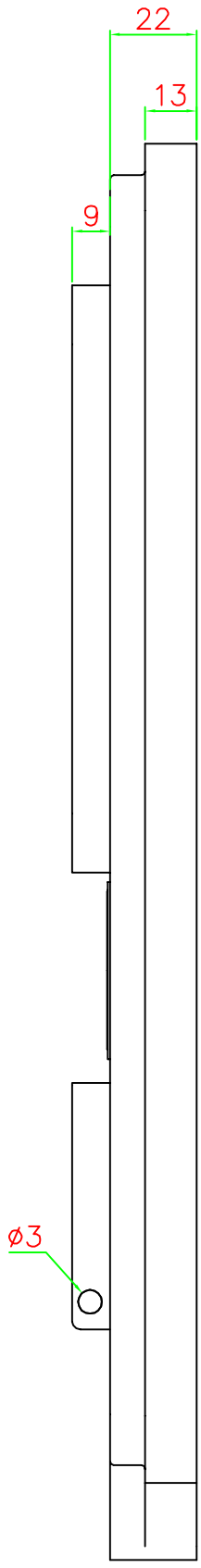

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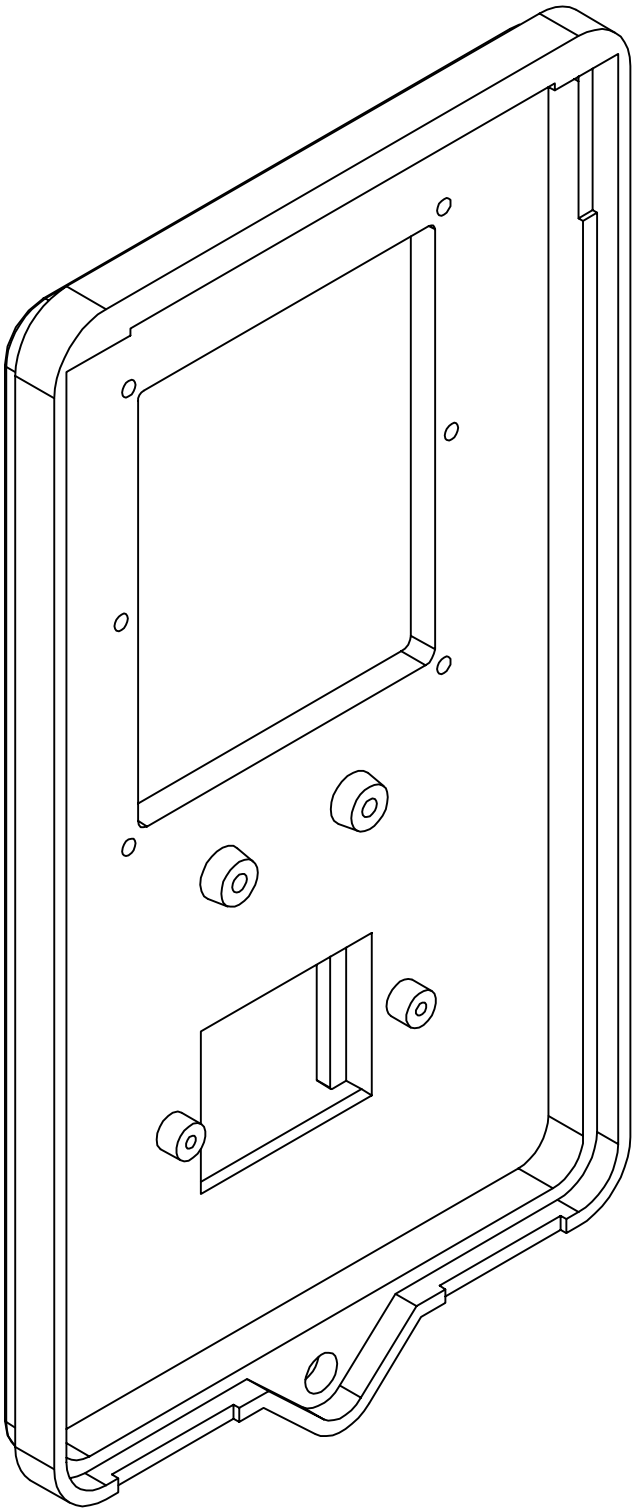

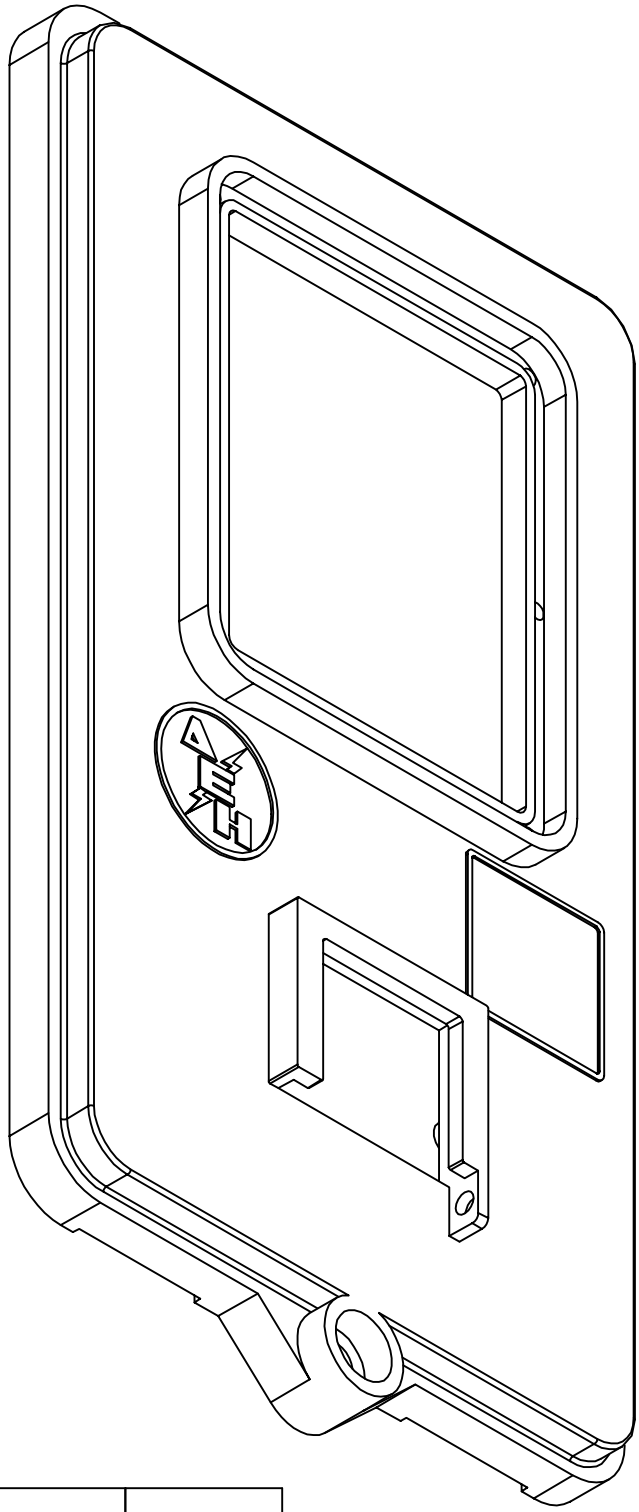

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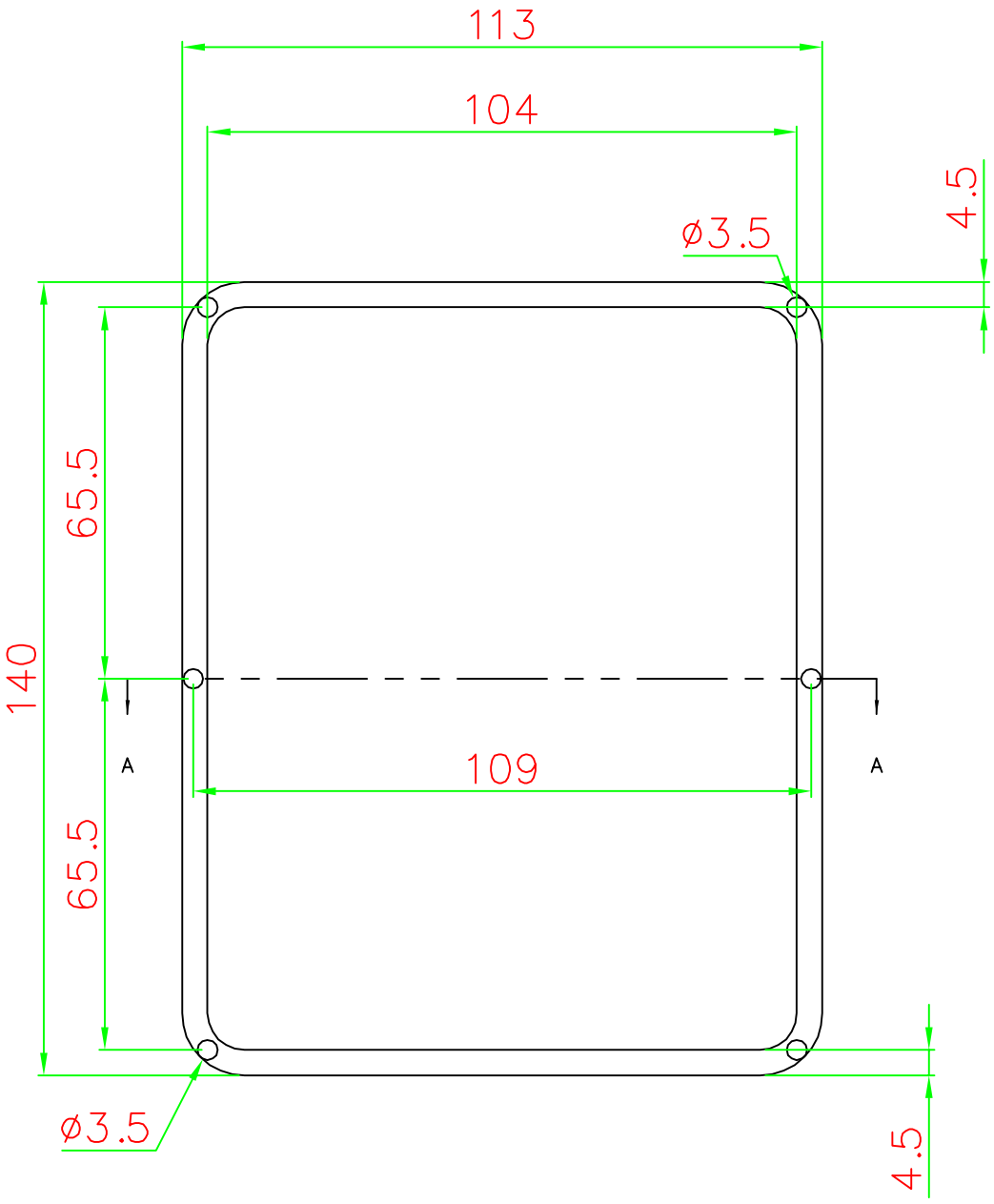
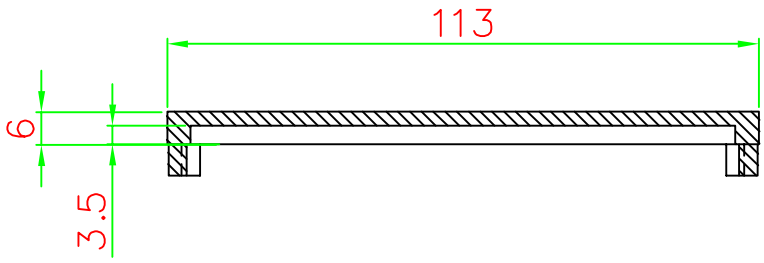
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΜΟΝΟΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΤΡΙΣΔΙΑΣΤΑΤΗ ΟΨΗ ΚΑΛΥΜΜΑΤΟΣ	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021

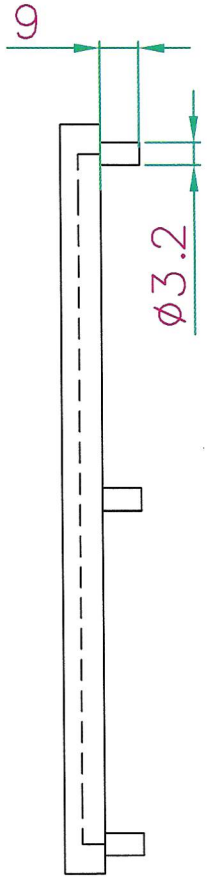


ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 2.3.1
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΜΟΝΟΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΚΑΤΟΨΗ ΠΑΡΑΘΥΡΟΥ	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021

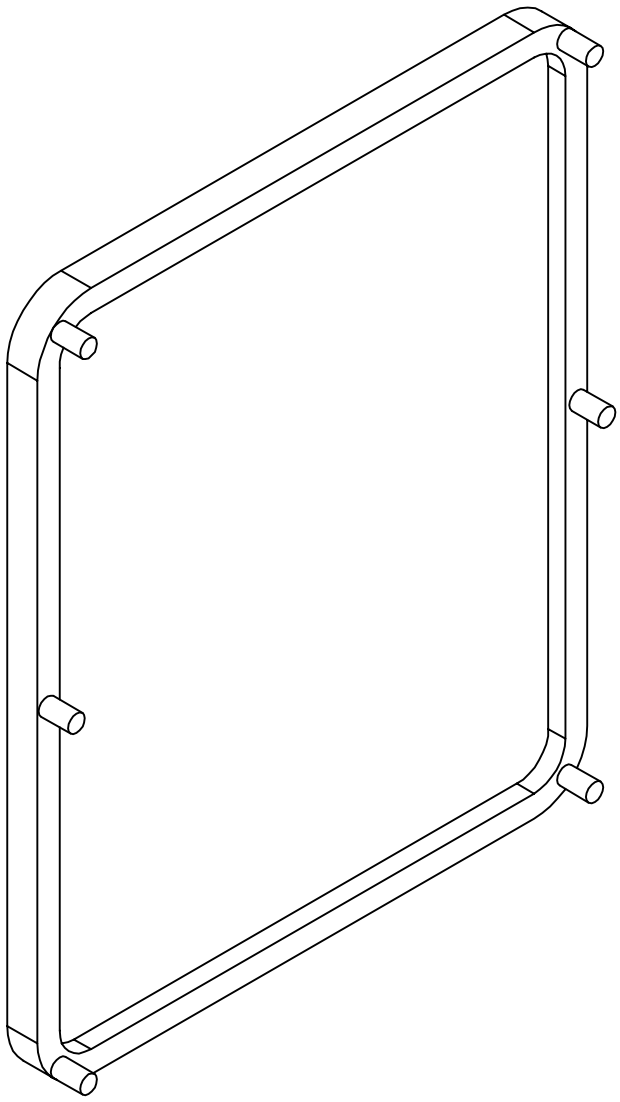


ΣΕΧΤΙΟΝ Α–Α

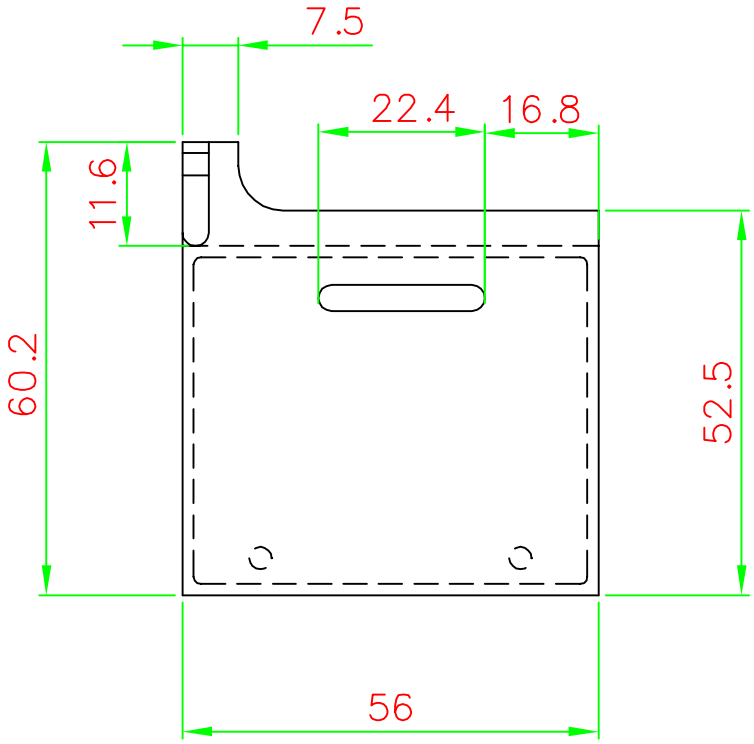
ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 2.3.2
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΜΟΝΟΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΤΟΜΗ Α–Α ΠΑΡΑΘΥΡΟΥ	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021

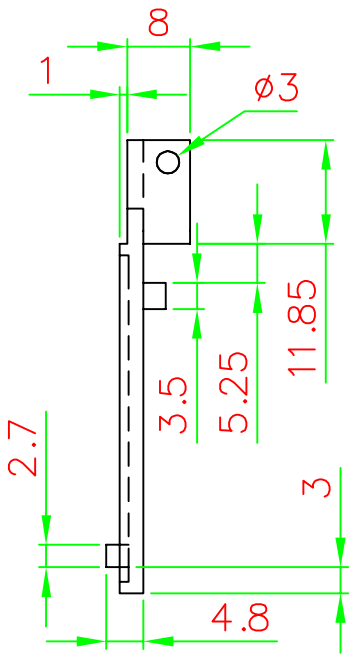


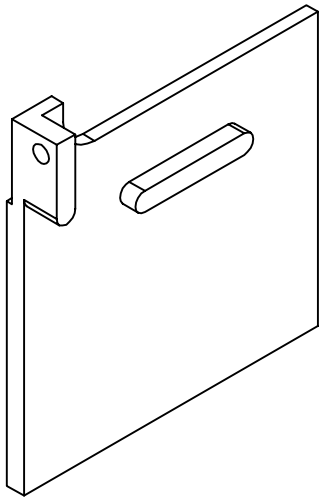
ΔΕΔΔΗΕ	ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ	ΑΡ. ΣΧΕΔΙΟΥ: 2.3.3
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΜΟΝΟΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΠΛΑΓΙΑ ΔΕΞΙΑ ΟΨΗ ΠΑΡΑΘΥΡΟΥ	ΗΜΕΡΟΜΗΝΙΑ: 26/4/2021



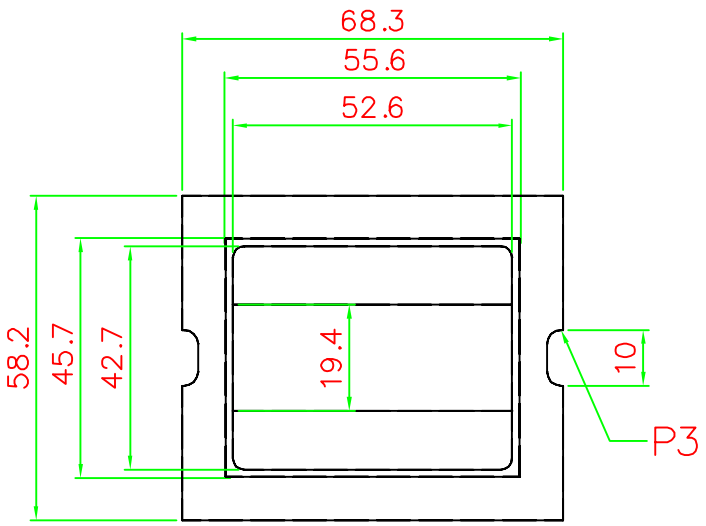
ΔΕΔΔΗΕ	ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ	ΑΡ. ΣΧΕΔΙΟΥ: 2.3.4
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΜΟΝΟΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΤΡΙΣΔΙΑΣΤΑΤΗ ΟΨΗ ΠΑΡΑΘΥΡΟΥ	ΗΜΕΡΟΜΗΝΙΑ: 26/4/2021

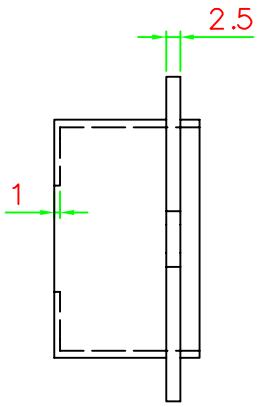


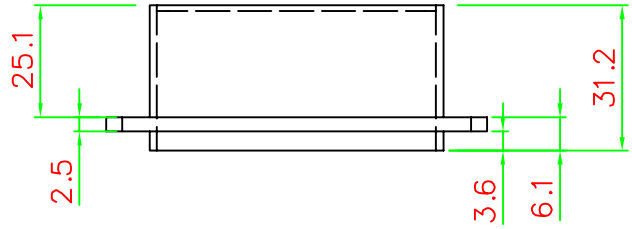


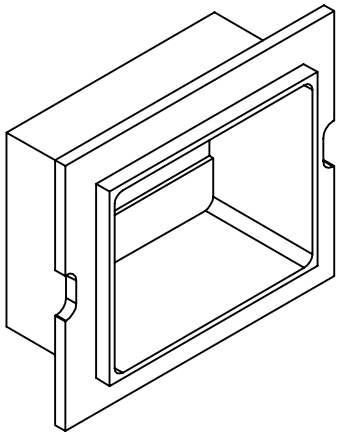


ΔΕΔΔΗΕ	ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ	ΑΡ. ΣΧΕΔΙΟΥ: 2.4.1
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΜΟΝΟΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΘΥΡΙΔΑ	ΗΜΕΡΟΜΗΝΙΑ: 26/4/2021

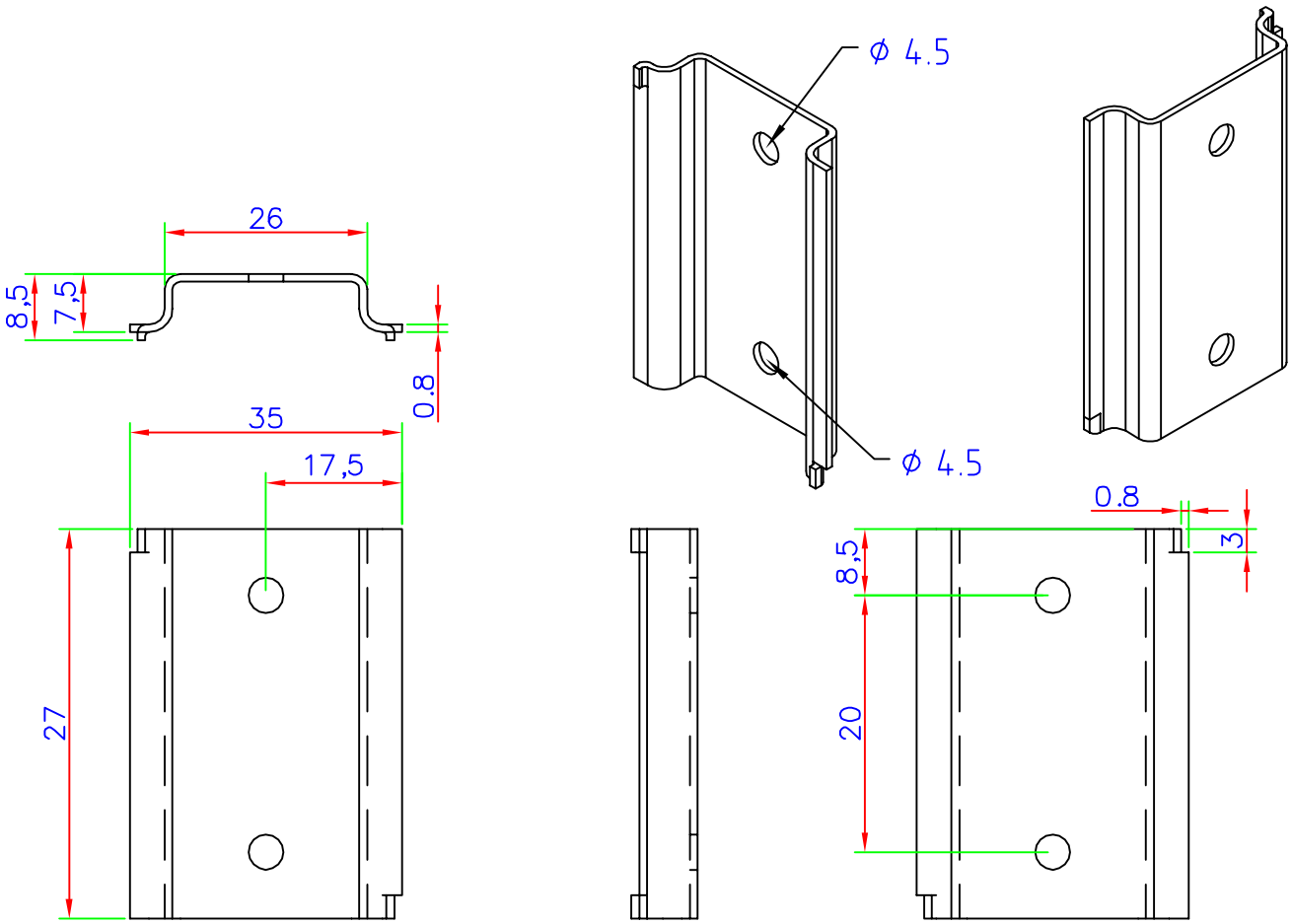




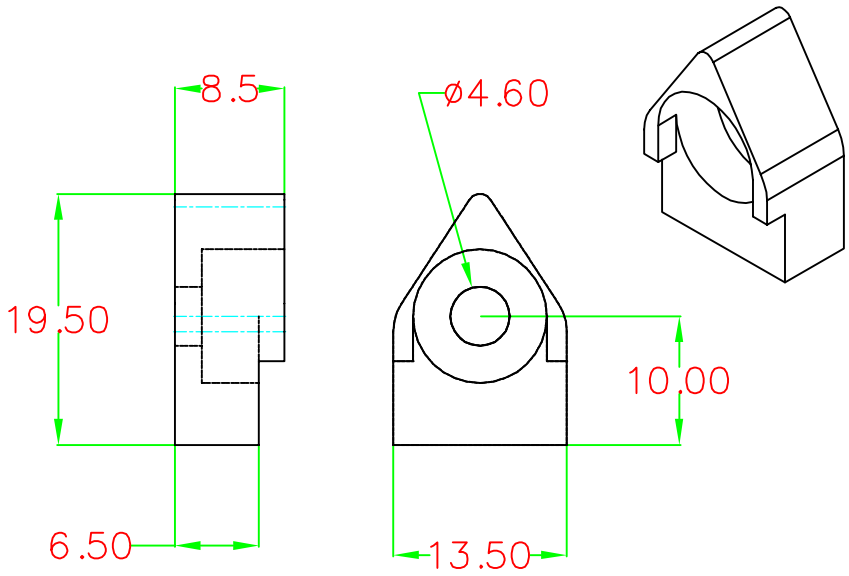




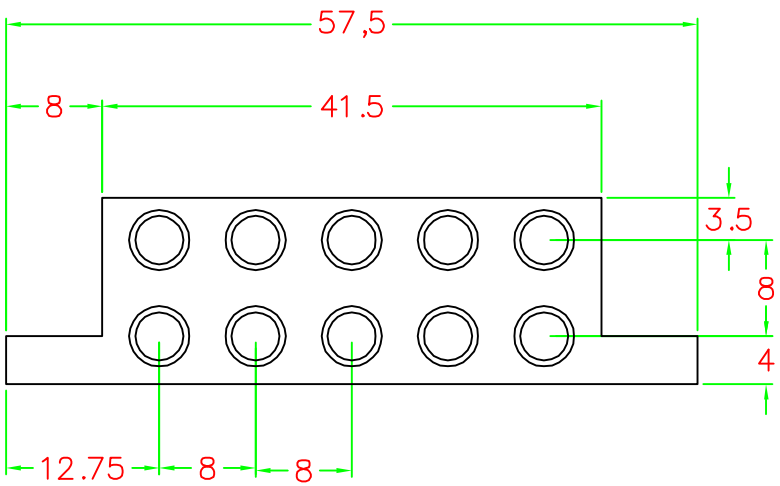
ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 2.4.2
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΜΟΝΟΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΧΟΑΝΗ	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021

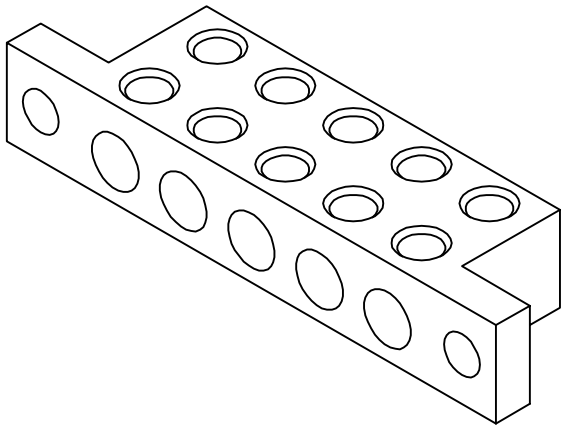


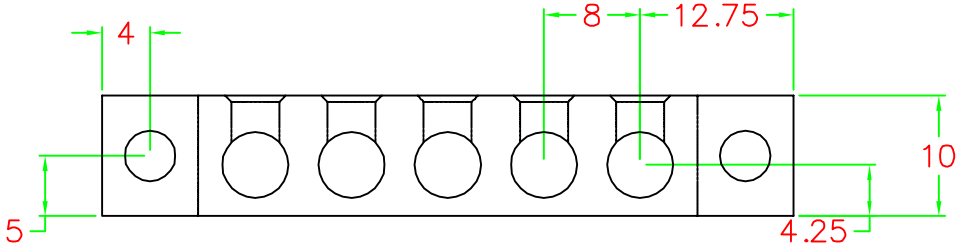
ΔΕΔΔΗΕ	ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ	ΑΡ. ΣΧΕΔΙΟΥ: 2.4.3
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΜΟΝΟΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΡΑΓΑ	ΗΜΕΡΟΜΗΝΙΑ: 26/4/2021



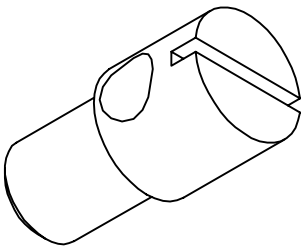
ΔΕΔΔΗΕ	ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ	ΑΡ. ΣΧΕΔΙΟΥ: 2.4.4
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΠΛΑΣΤΙΚΟ ΣΤΗΡΙΓΜΑΤΟΣ ΧΟΑΝΩΝ ΜΙΚΡΟΑΥΤΟΜΑΤΟΥ ΚΙΒΩΤΙΩΝ ΤΟΠΟΘΕΤΗΣΗΣ ΜΟΝΟΦΑΣΙΚΩΝ ΚΑΙ ΤΡΙΦΑΣΙΚΩΝ "ΕΞΥΠΝΩΝ" ΜΕΤΡΗΤΩΝ Χ.Τ.	ΗΜΕΡΟΜΗΝΙΑ: 26/4/2021

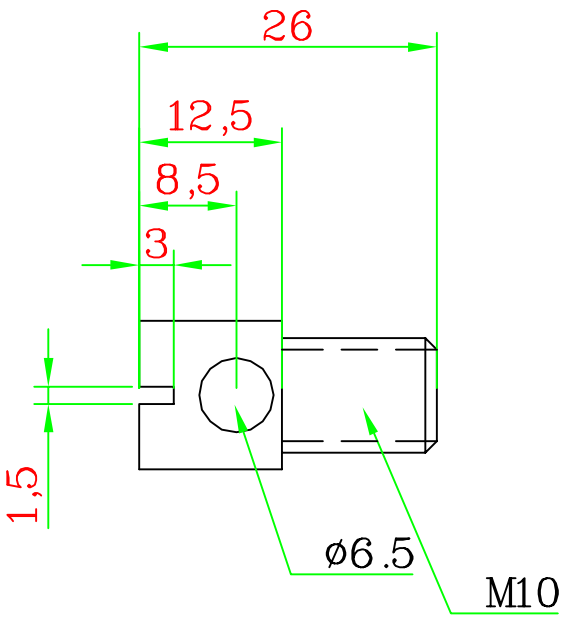


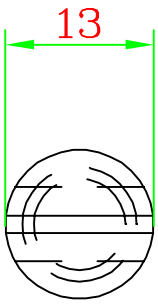




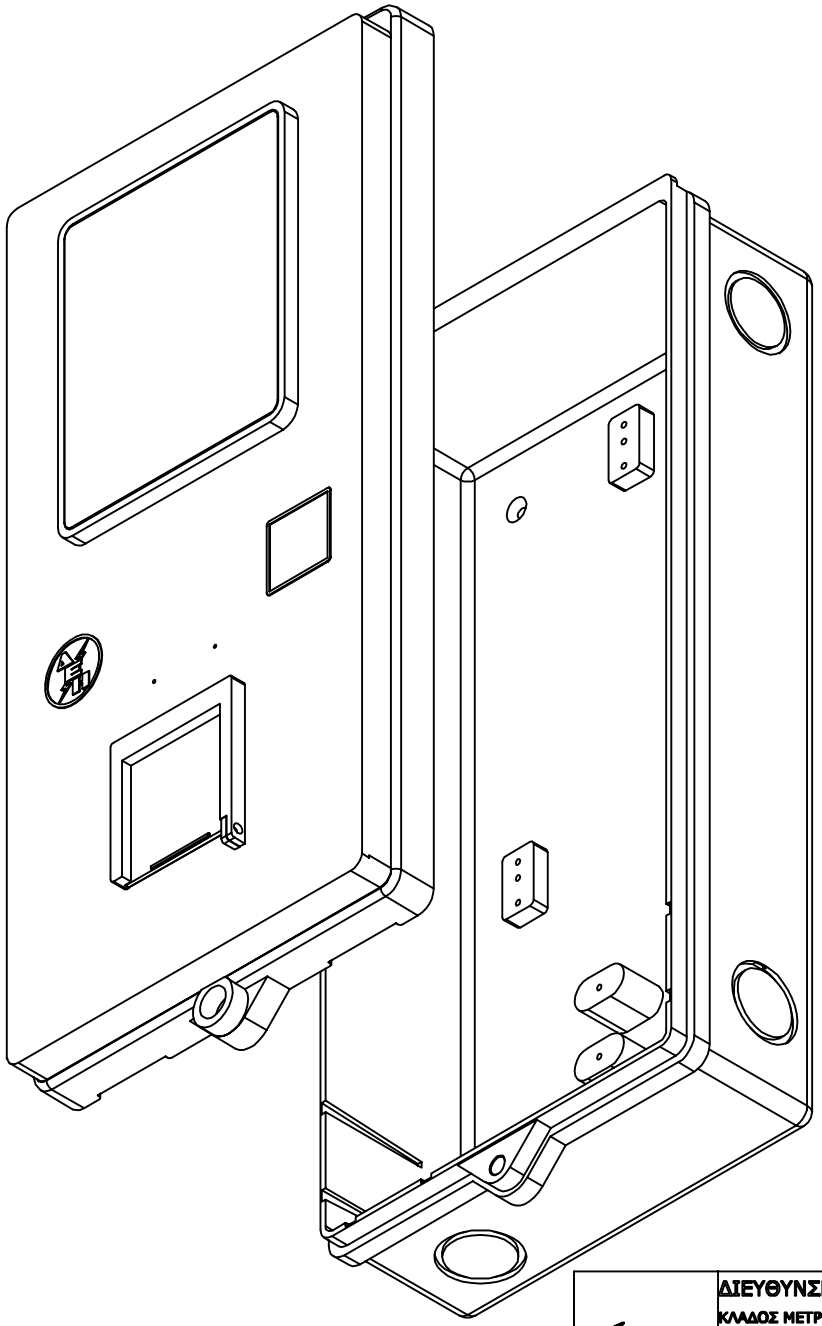
ΔΕΔΔΗΕ	ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ	ΑΡ. ΣΧΕΔΙΟΥ: 2.5.1
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΜΟΝΟΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΑΚΡΟΔΕΚΤΗΣ ΓΕΙΩΣΗΣ	ΗΜΕΡΟΜΗΝΙΑ: 26/4/2021

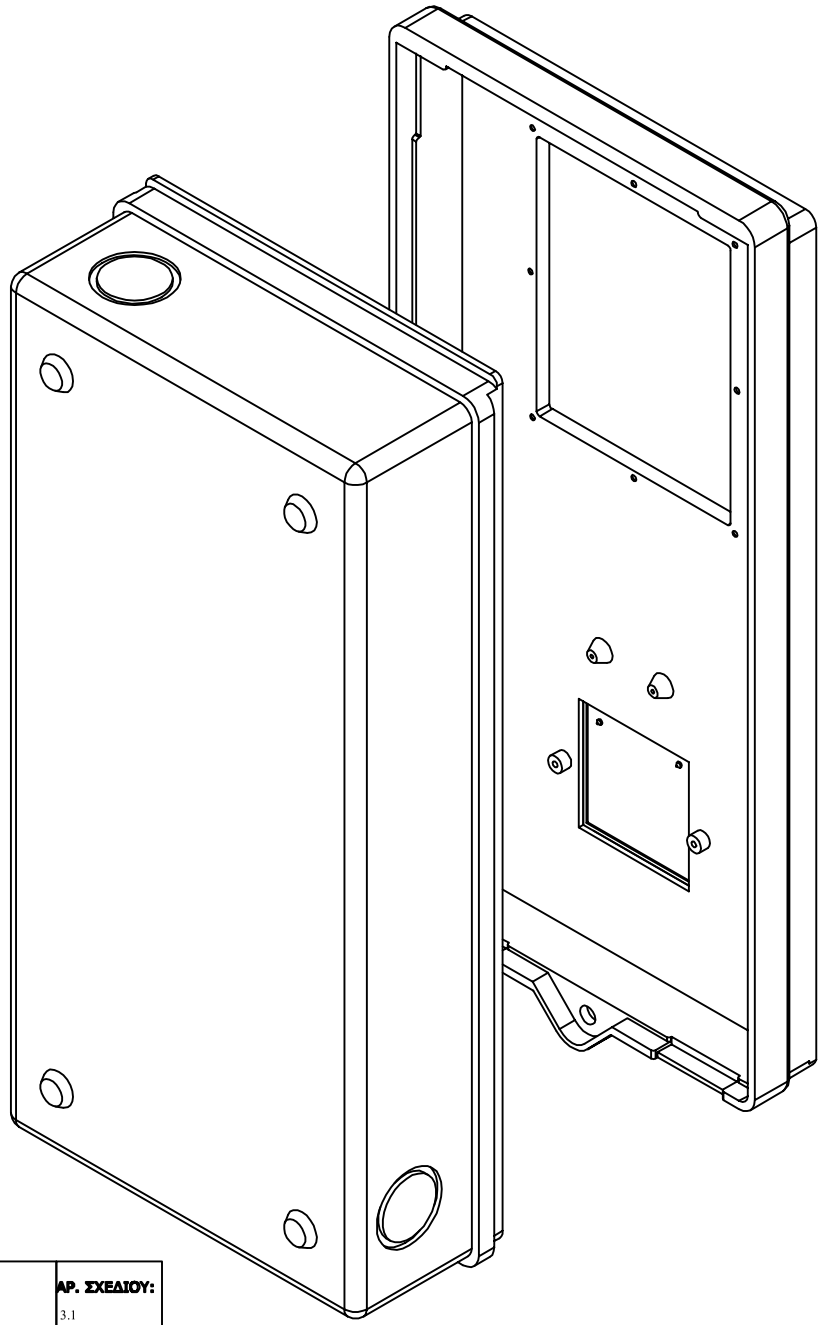




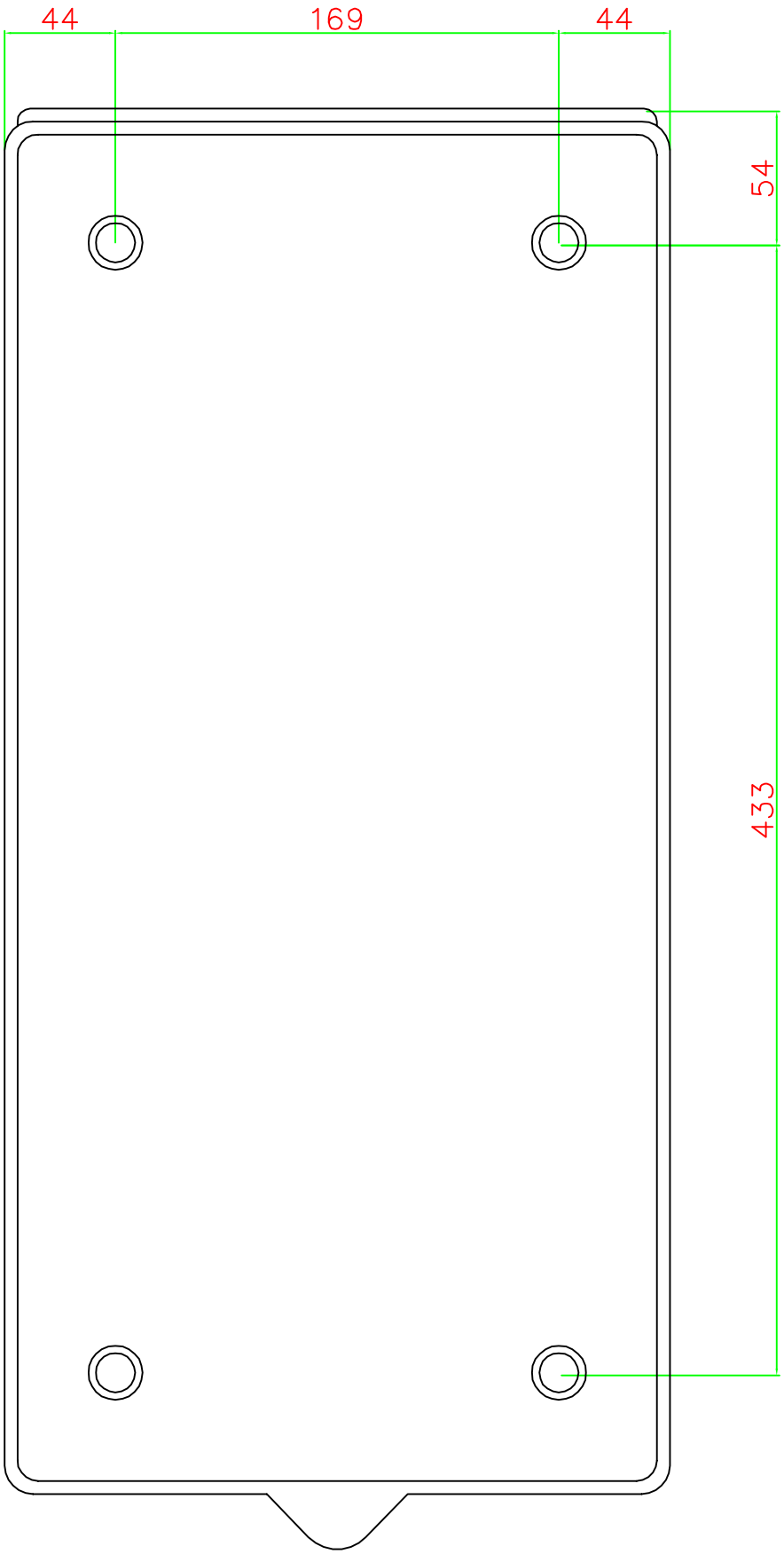


ΔΕΔΔΗΕ	ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ	ΑΡ. ΣΧΕΔΙΟΥ: 2.5.2
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΜΟΝΟΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΒΙΔΑ ΑΣΦΑΛΕΙΑΣ	ΗΜΕΡΟΜΗΝΙΑ: 26/4/2021

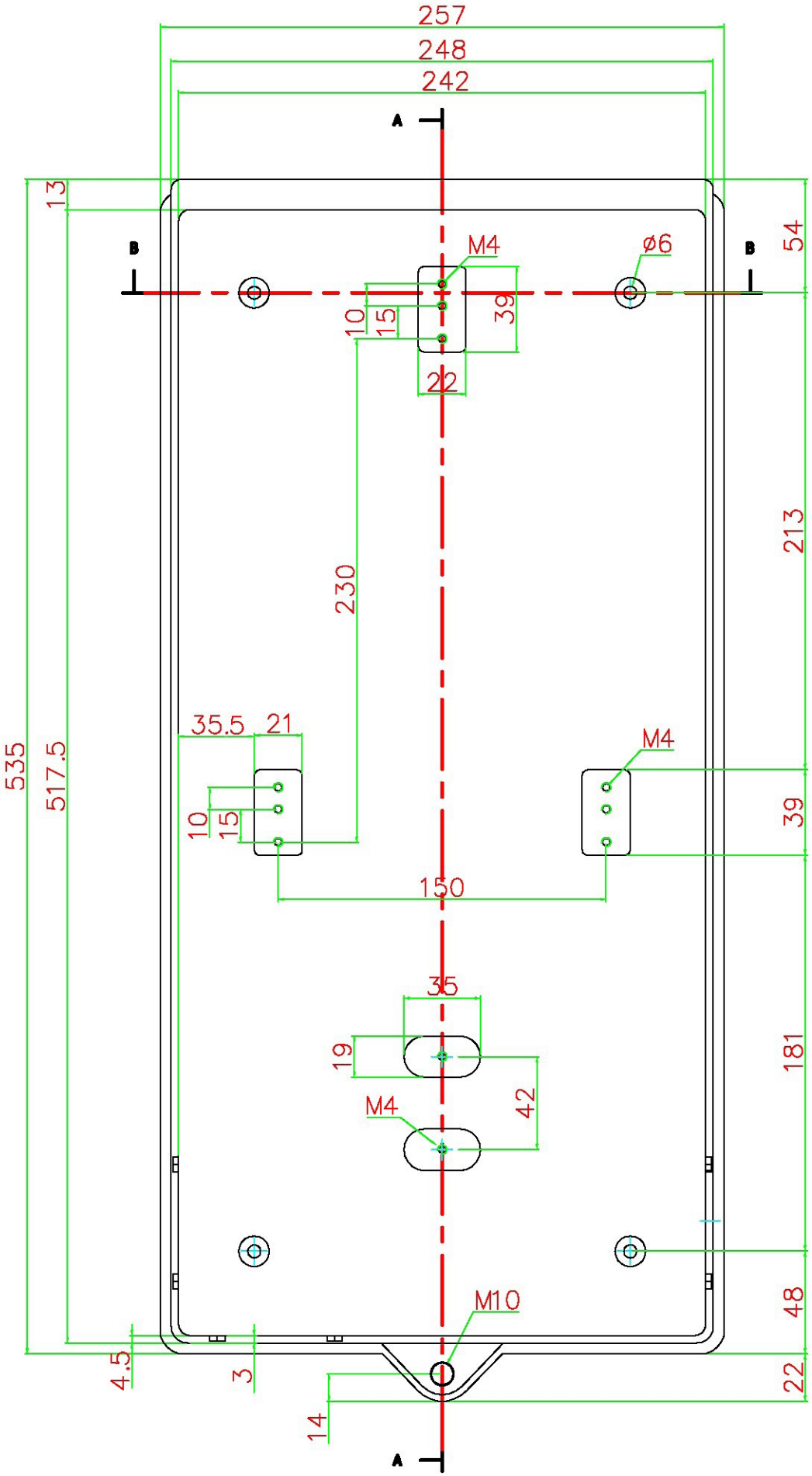




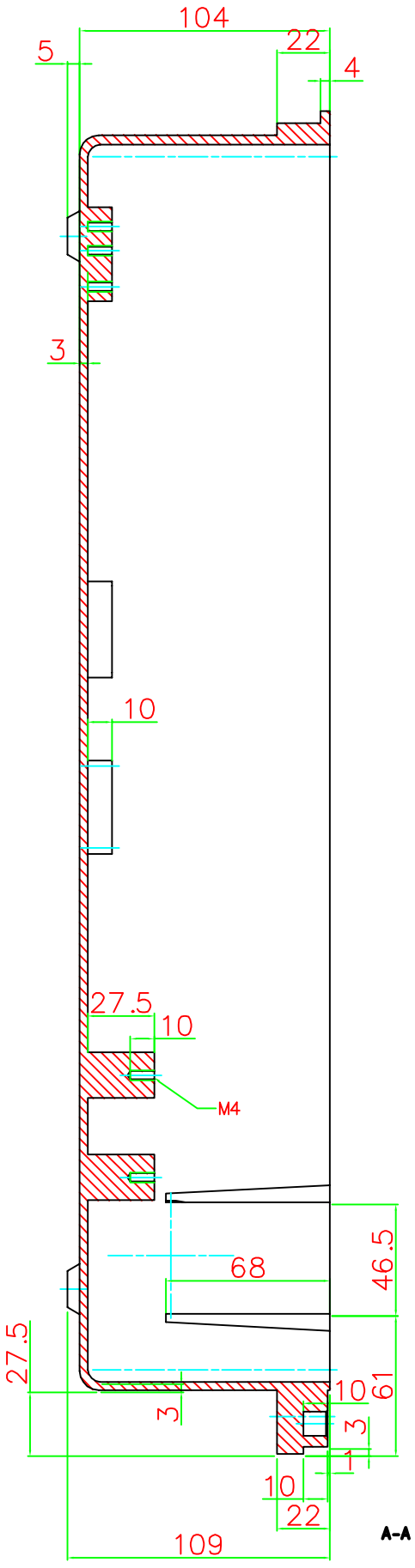
ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.1
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021



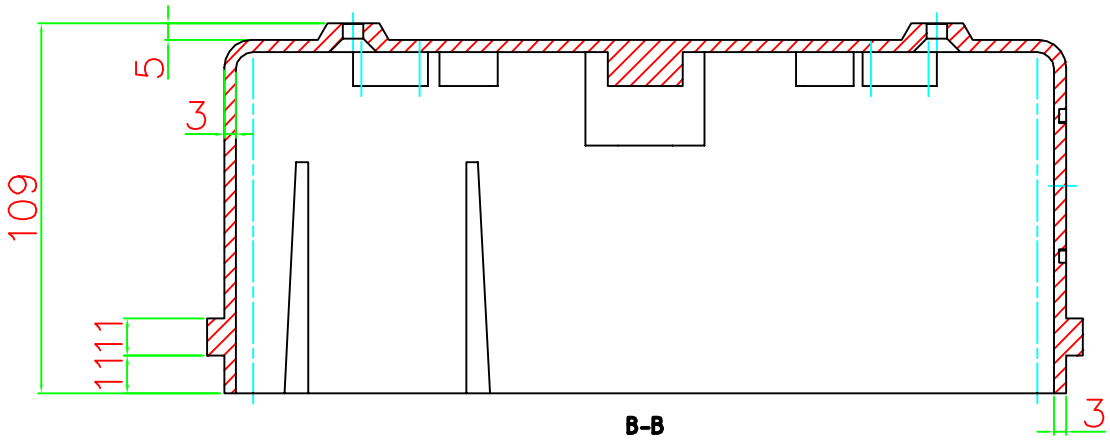
ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.1.1
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΤΥΠΝΟ **ΜΕΤΡΗΤΗ ΑΝΟΨΗ ΒΑΣΗΣ**	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021



ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.1.2
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΤΠΝΟ **ΜΕΤΡΗΤΗ ΚΑΤΟΨΗ ΒΑΣΗΣ**	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021

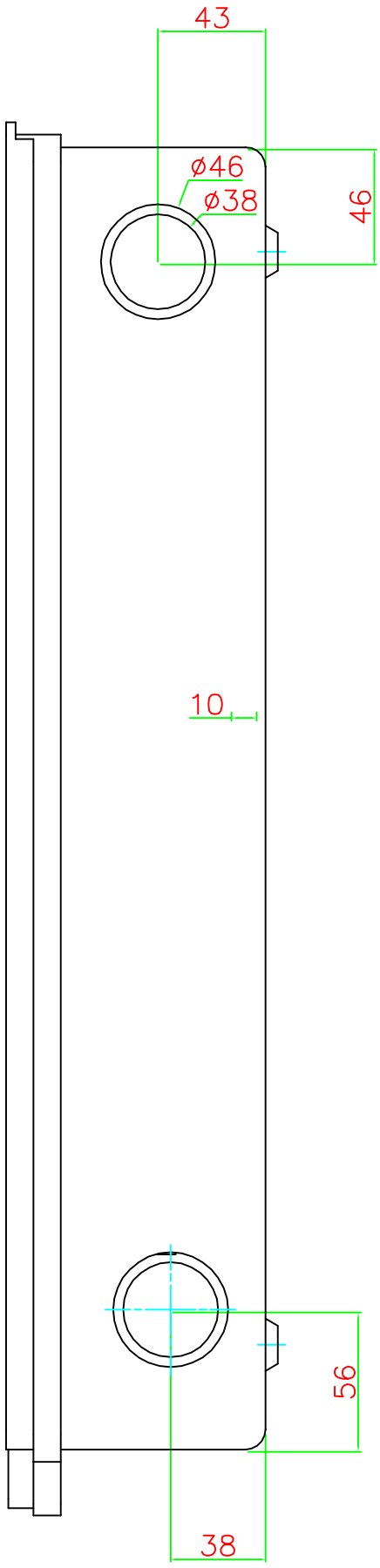


ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.1.3
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΤΠΝΟ **ΜΕΤΡΗΤΗ ΤΟΜΗ Α–Α ΒΑΣΗΣ**	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021

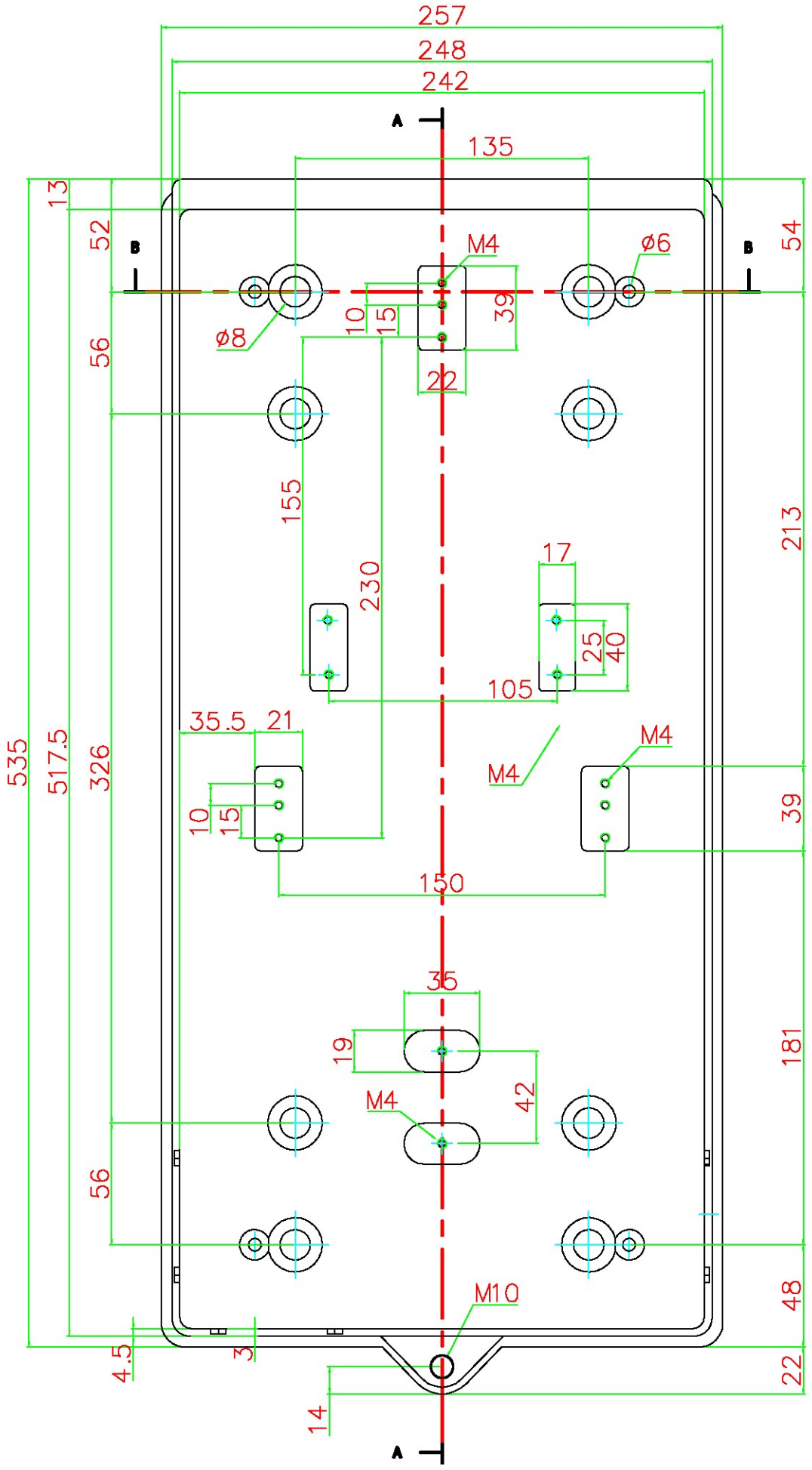


Β–Β

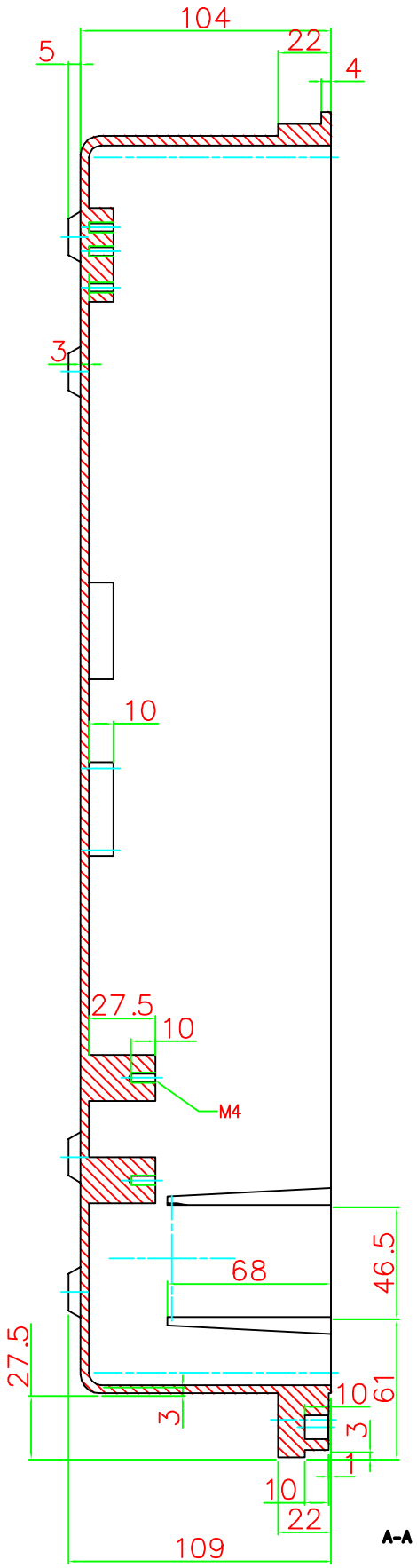
ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.1.4
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΤΠΝΟ ΜΕΤΡΗΤΗ ΤΟΜΗ Β–Β ΒΑΣΗΣ	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021



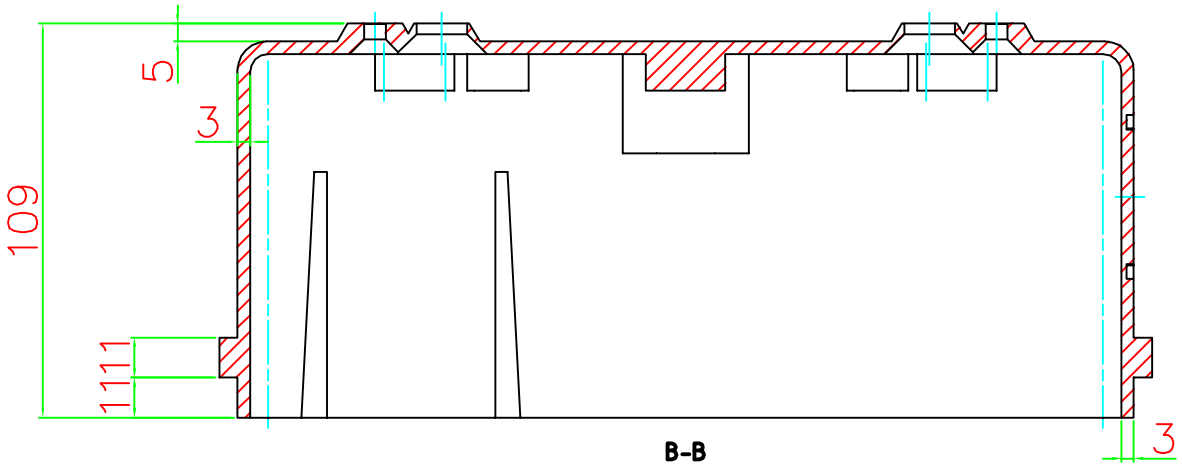
ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.1.5
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΤΠΝΟ **ΜΕΤΡΗΤΗ ΠΛΑΓΙΑ ΔΕΞΙΑ ΟΨΗ ΒΑΣΗΣ**	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021



ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.1.6
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΤΠΝΟ ΜΕΤΡΗΤΗ ΚΑΤΟΨΗ ΒΑΣΗΣ (100Α) & ΦΟΠ	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021

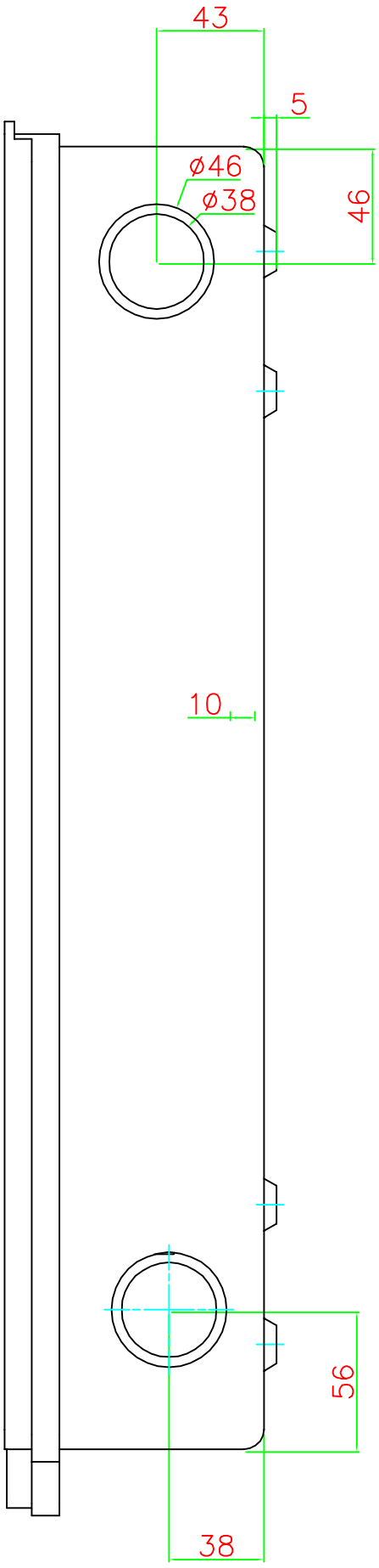


ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.1.7
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΤΠΝΟ **ΜΕΤΡΗΤΗ ΤΟΜΗ Α–Α ΒΑΣΗΣ ΠΑΡΟΧΩΝ Νο4 (100Α) & ΦΟΠ**	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021

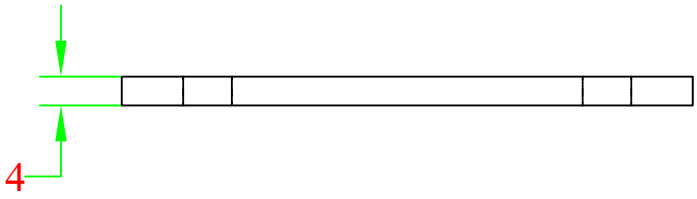


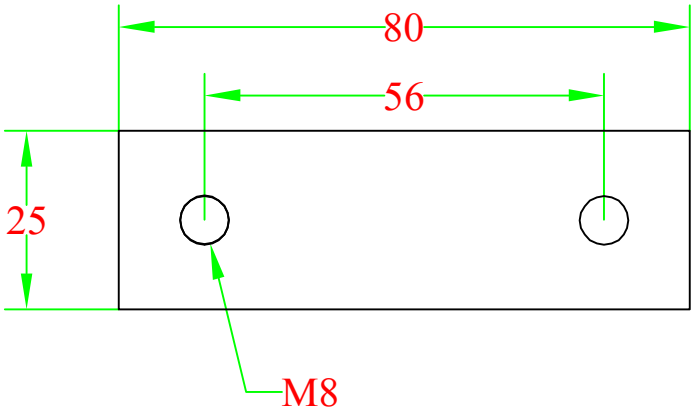
Β-Β

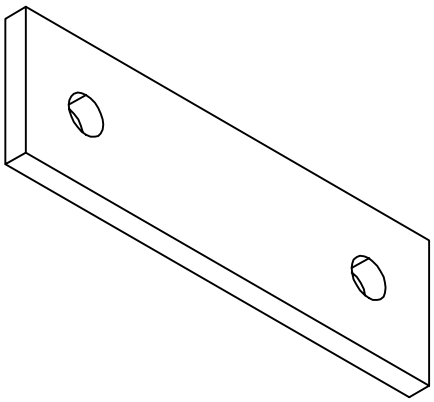
ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.1.8
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΤΟΜΗ Β–Β ΒΑΣΗΣ ΠΑΡΟΧΩΝ Νο4 (100Α) & ΦΟΠ	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021



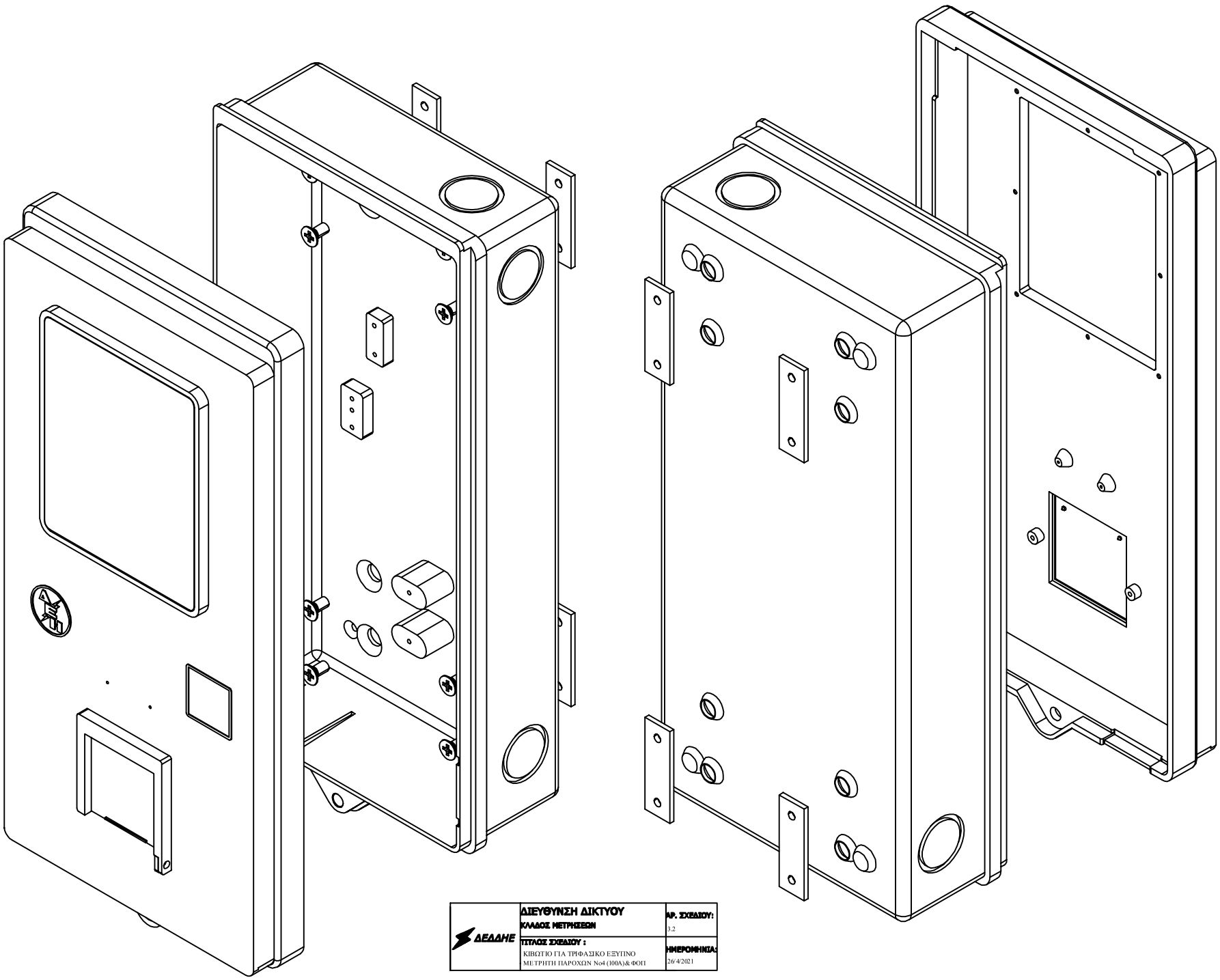
ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.1.9
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΠΛΑΓΙΑ ΔΕΞΙΑ ΟΨΗ ΒΑΣΗΣ ΠΑΡΟΧΩΝ No4 (100Α) & ΦΟΠ	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021



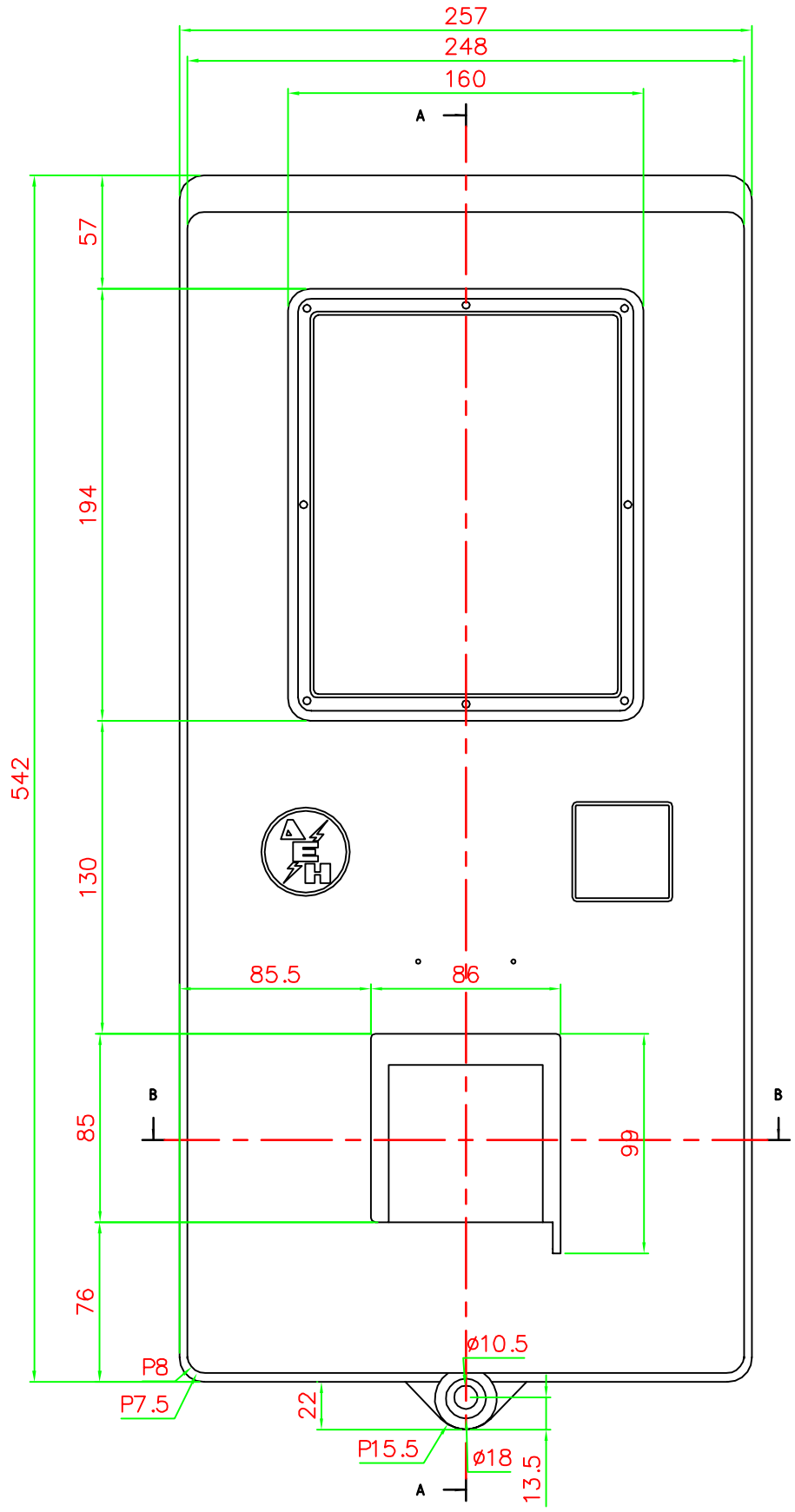




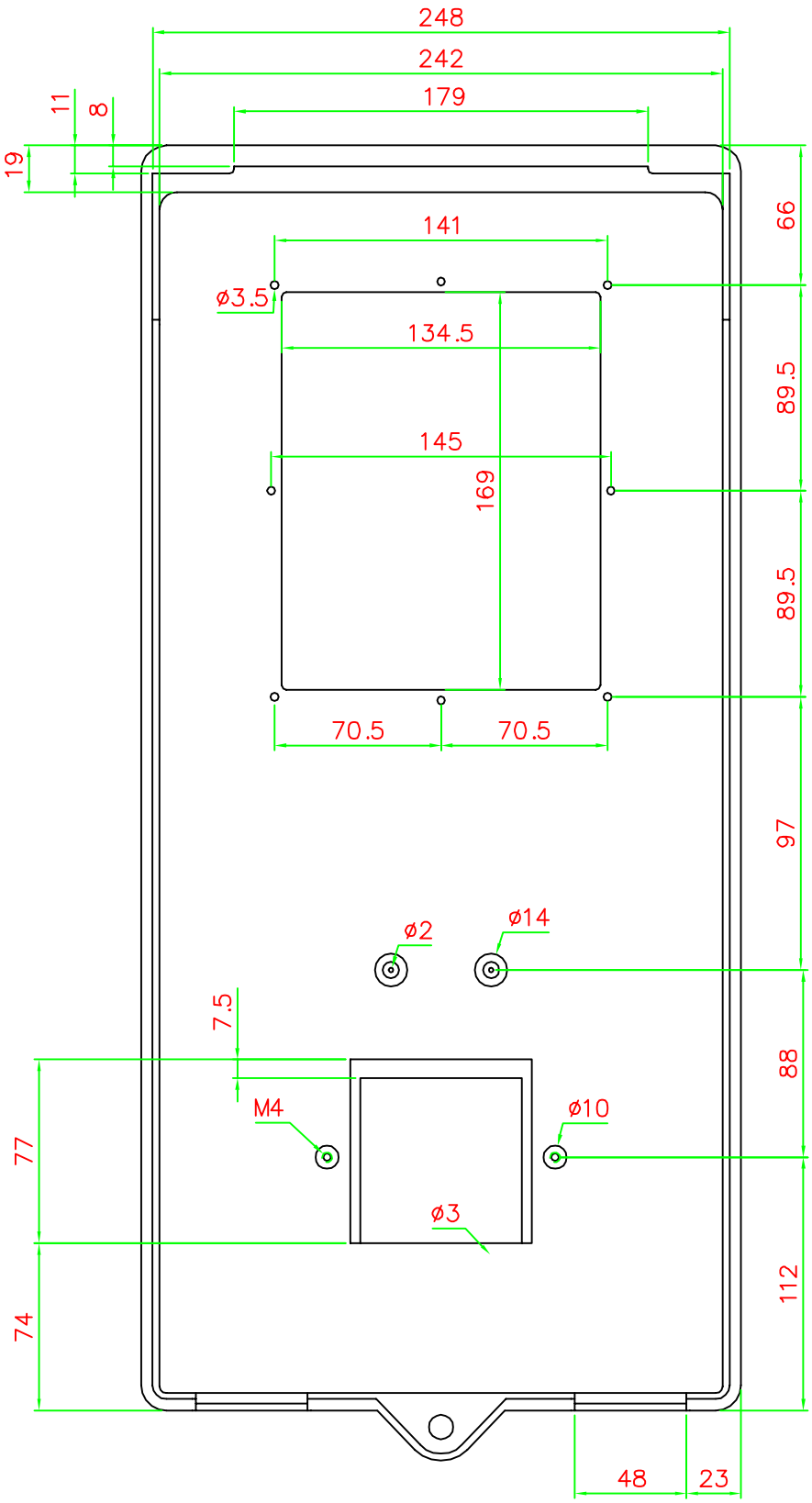
ΔΕΔΔΗΕ	ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ	ΑΡ. ΣΧΕΔΙΟΥ: 3.1.10
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΛΑΜΕΣ ΑΝΑΡΤΗΣΗΣ ΠΑΡΟΧΩΝ No4 (100A) & ΦΟΠ	ΗΜΕΡΟΜΗΝΙΑ: 26/4/2021



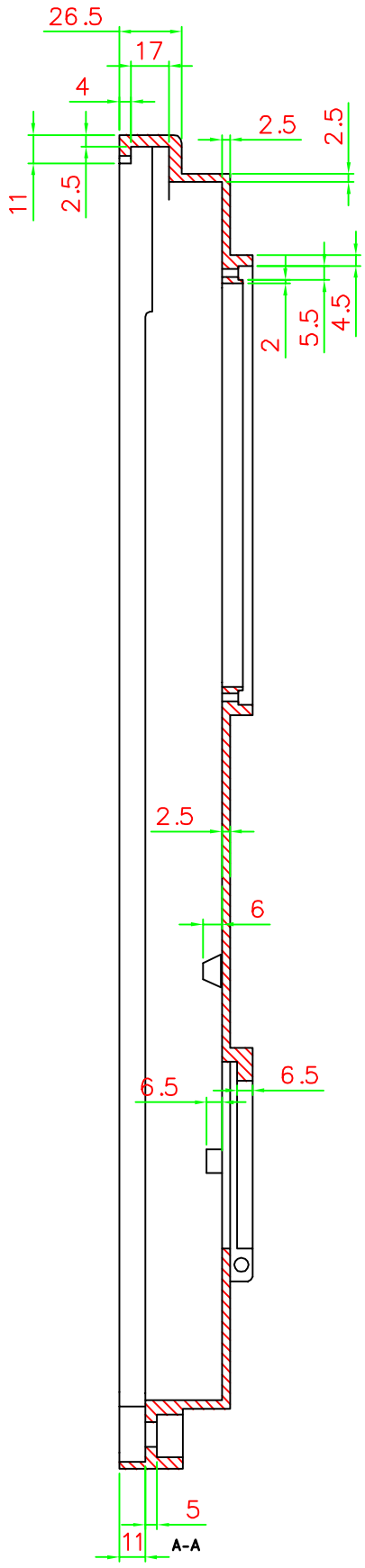
ΔΕΔΔΗΕ	ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ	ΑΡ. ΣΧΕΔΙΟΥ: 3.2
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΠΑΡΟΧΩΝ No4 (100Α)& ΦΟΠ	ΗΜΕΡΟΜΗΝΙΑ: 26/4/2021



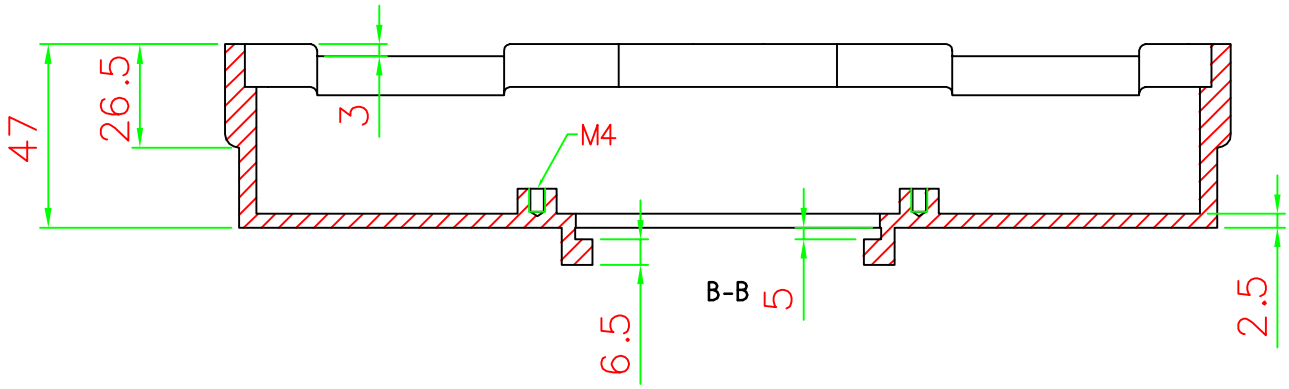
ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.2.1
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΤΠΝΟ ΜΕΤΡΗΤΗ ΚΑΤΟΨΗ ΚΑΛΥΜΜΑΤΟΣ	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021



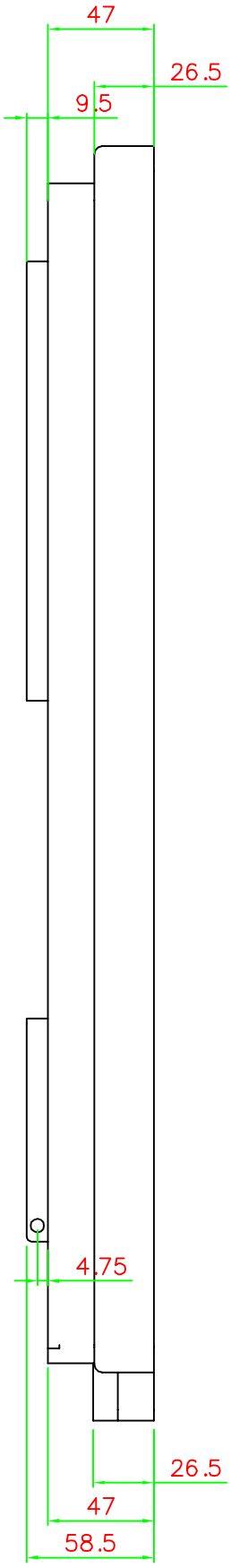
ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.2.2
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΤΠΝΟ ΜΕΤΡΗΤΗ ΑΝΟΨΗ ΚΑΛΥΜΜΑΤΟΣ	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021



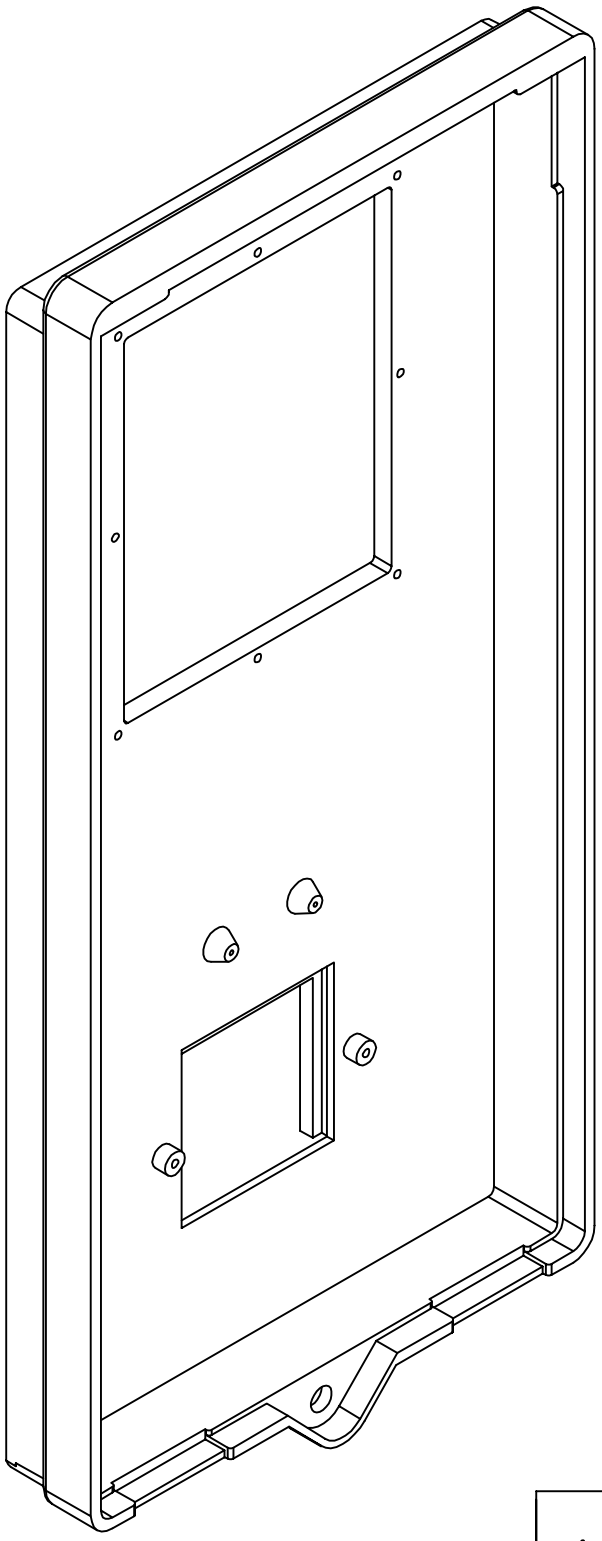
ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.2.3
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΤΥΠΝΟ **ΜΕΤΡΗΤΗ ΤΟΜΗ Α–Α ΚΑΛΥΜΜΑΤΟΣ**	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021

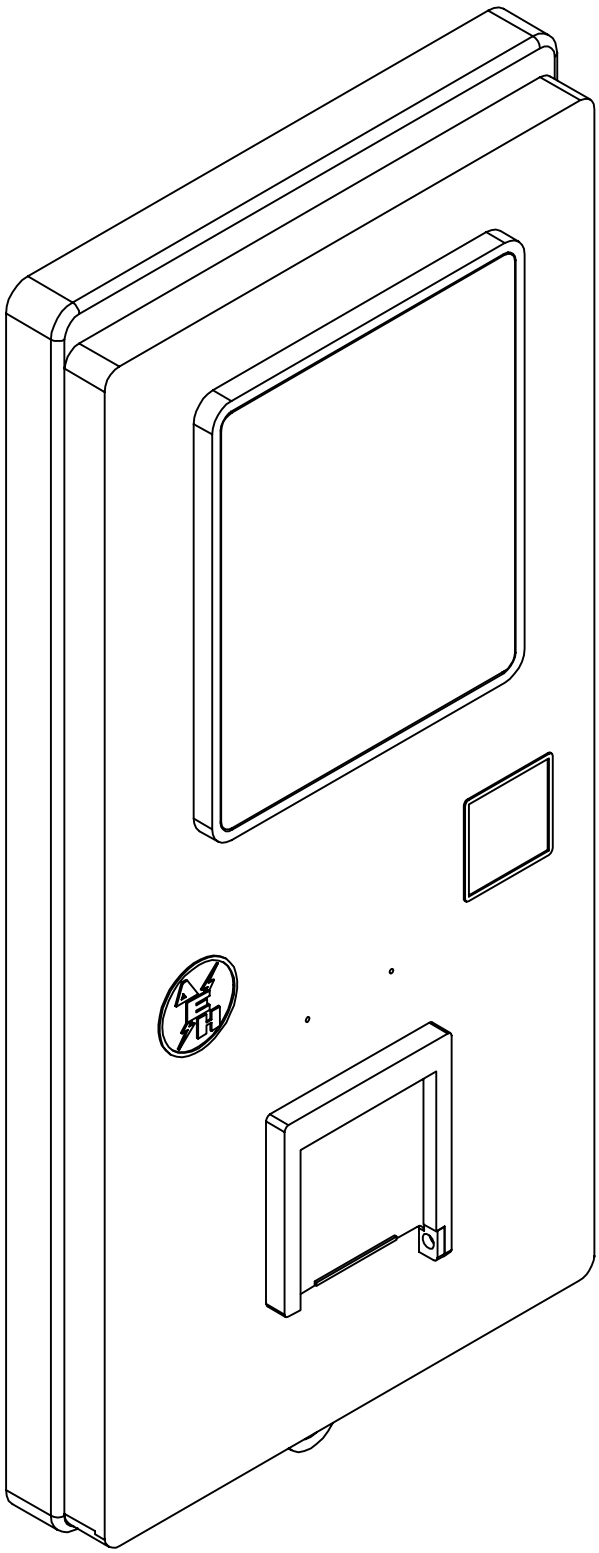


ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.2.4
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΤΟΜΗ Β–Β ΚΑΛΥΜΜΑΤΟΣ	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021

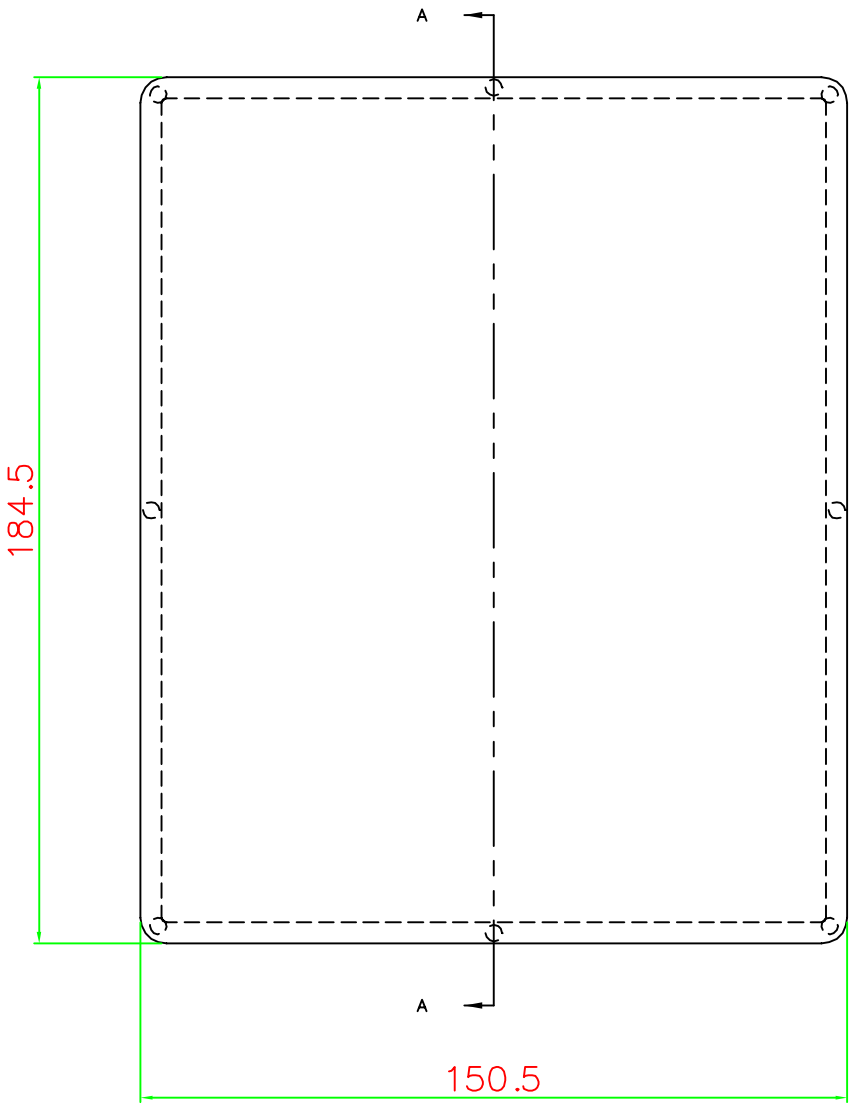


ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.2.5
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΤΠΝΟ ΜΕΤΡΗΤΗ ΠΛΑΓΙΑ ΔΕΞΙΑ ΟΨΗ ΚΑΛΥΜΜΑΤΟΣ	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021

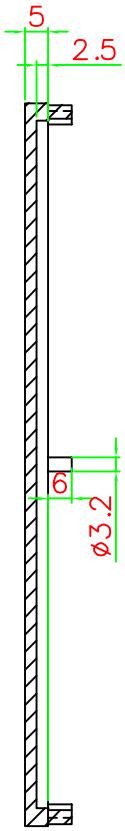




ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.2.6
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΤΠΝΟ **ΜΕΤΡΗΤΗ ΤΡΙΣΔΙΑΣΤΑΤΗ ΟΨΗ ΚΑΛΥΜΜΑΤΟΣ**	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021

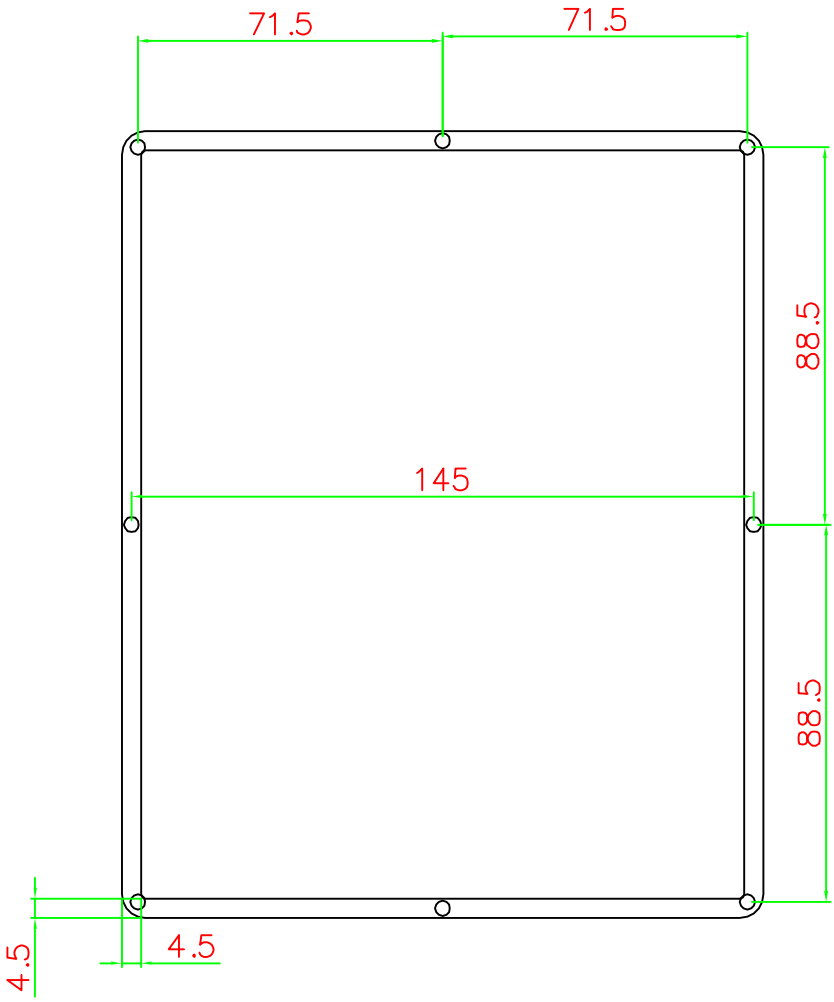


ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.3.1
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΚΑΤΟΨΗ ΠΑΡΑΘΥΡΟΥ	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021

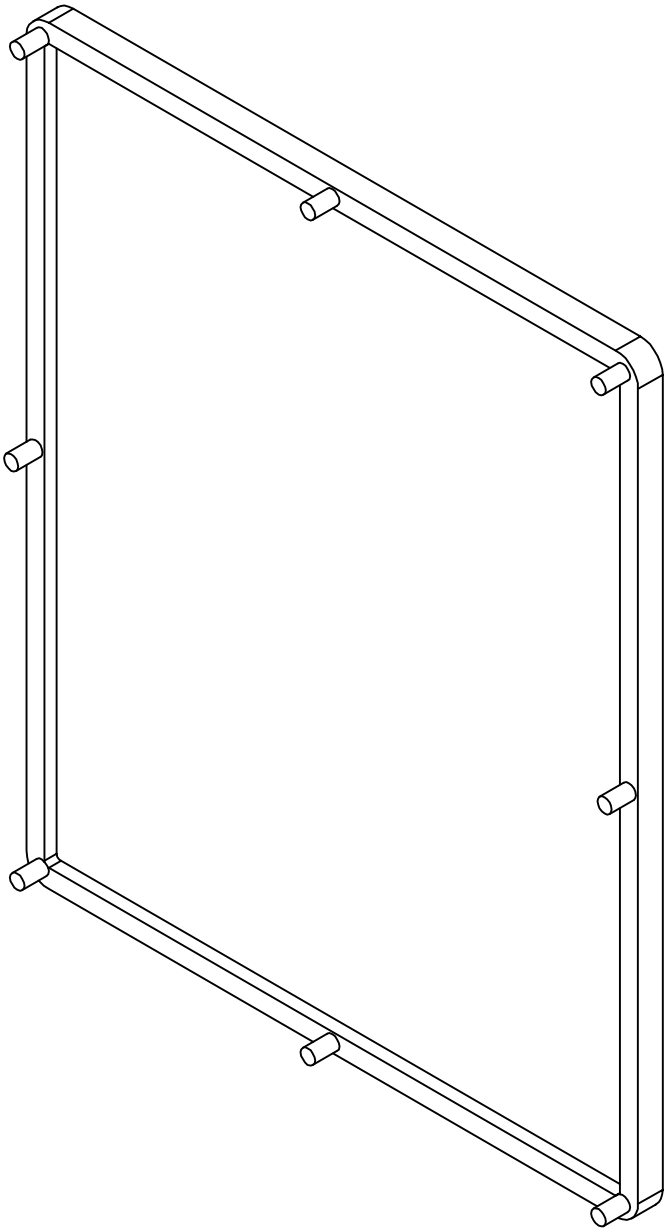


ΣΕΧΤΙΟΝ Α–Α

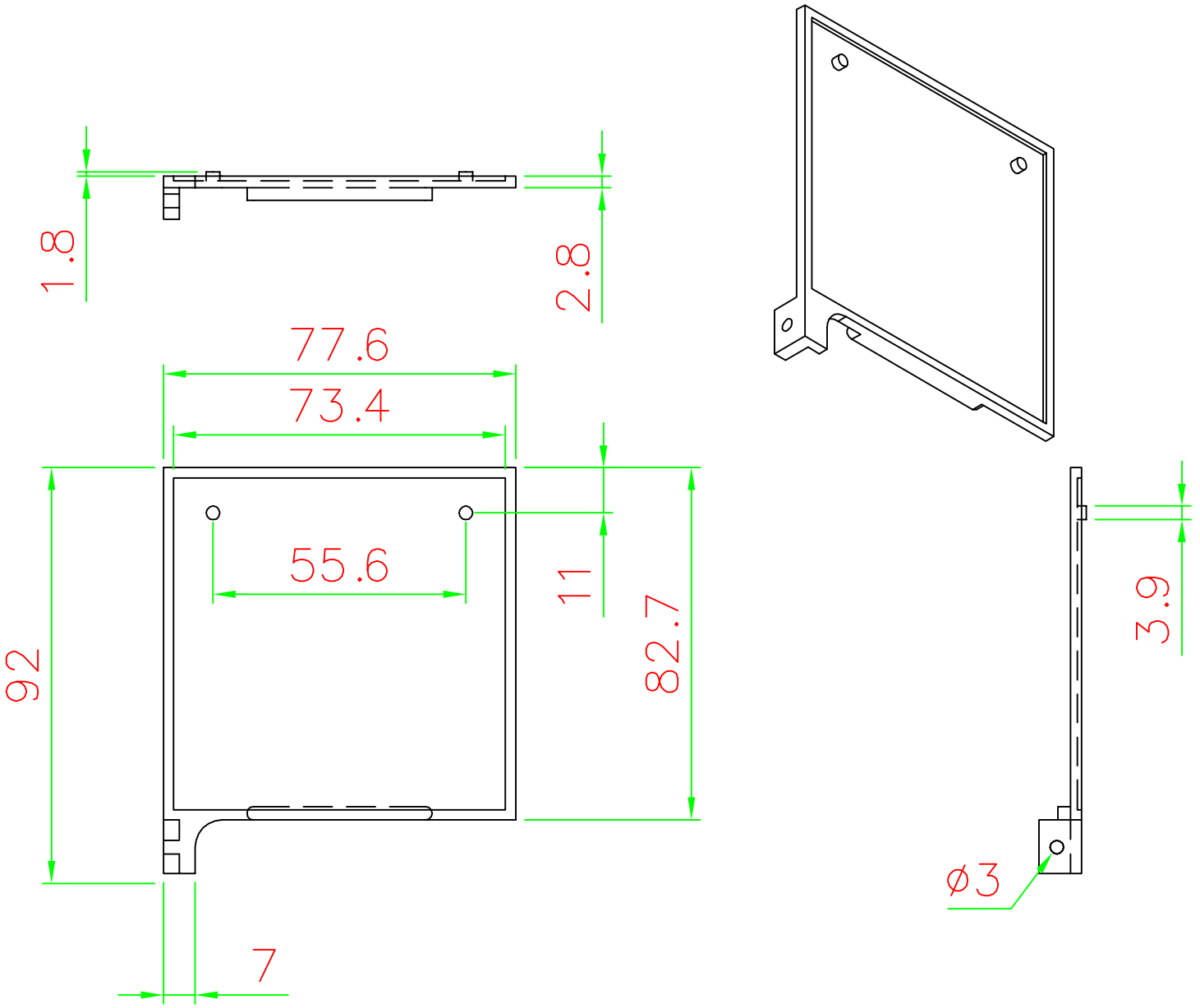
ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.3.2
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΤΟΜΗ Α–Α ΠΑΡΑΘΥΡΟΥ	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021



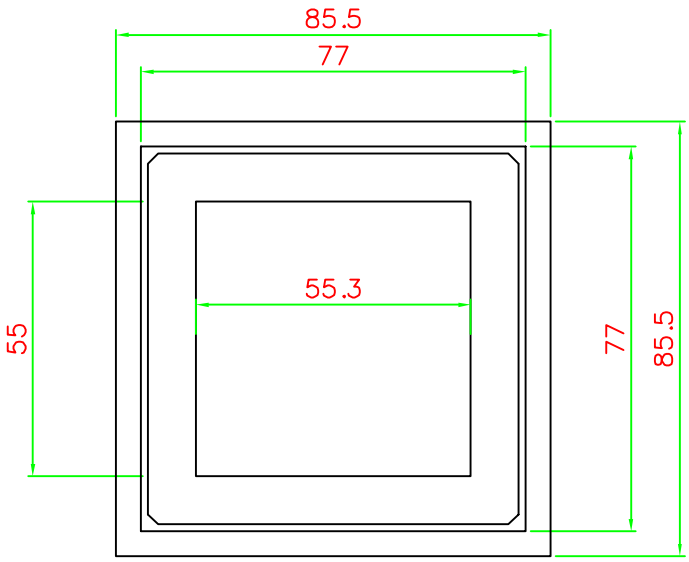
ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.3.3
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΑΝΟΨΗ ΠΑΡΑΘΥΡΟΥ	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021

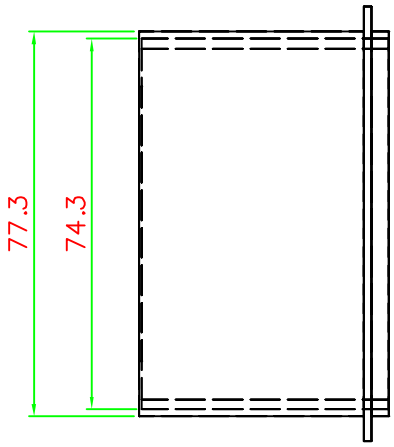


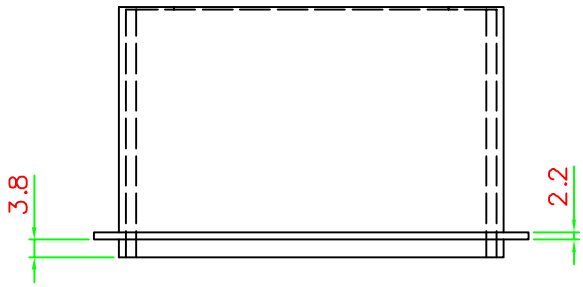
ΔΕΔΔΗΕ	ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.3.4
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΤΡΙΣΔΙΑΣΤΑΤΗ ΟΨΗ ΠΑΡΑΘΥΡΟΥ	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021

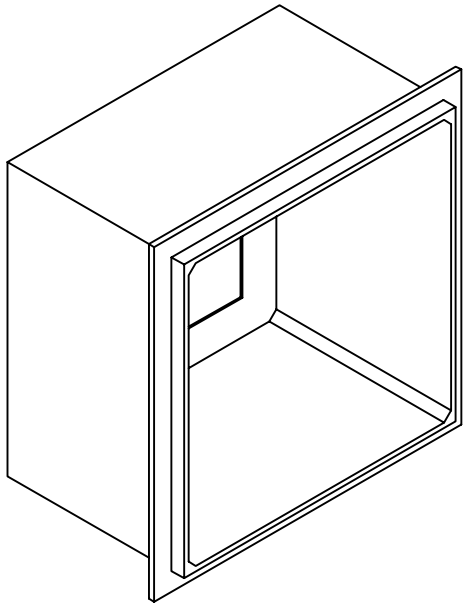


ΔΕΔΔΗΕ	**ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ** **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.4.1
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΘΥΡΙΔΑ	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021

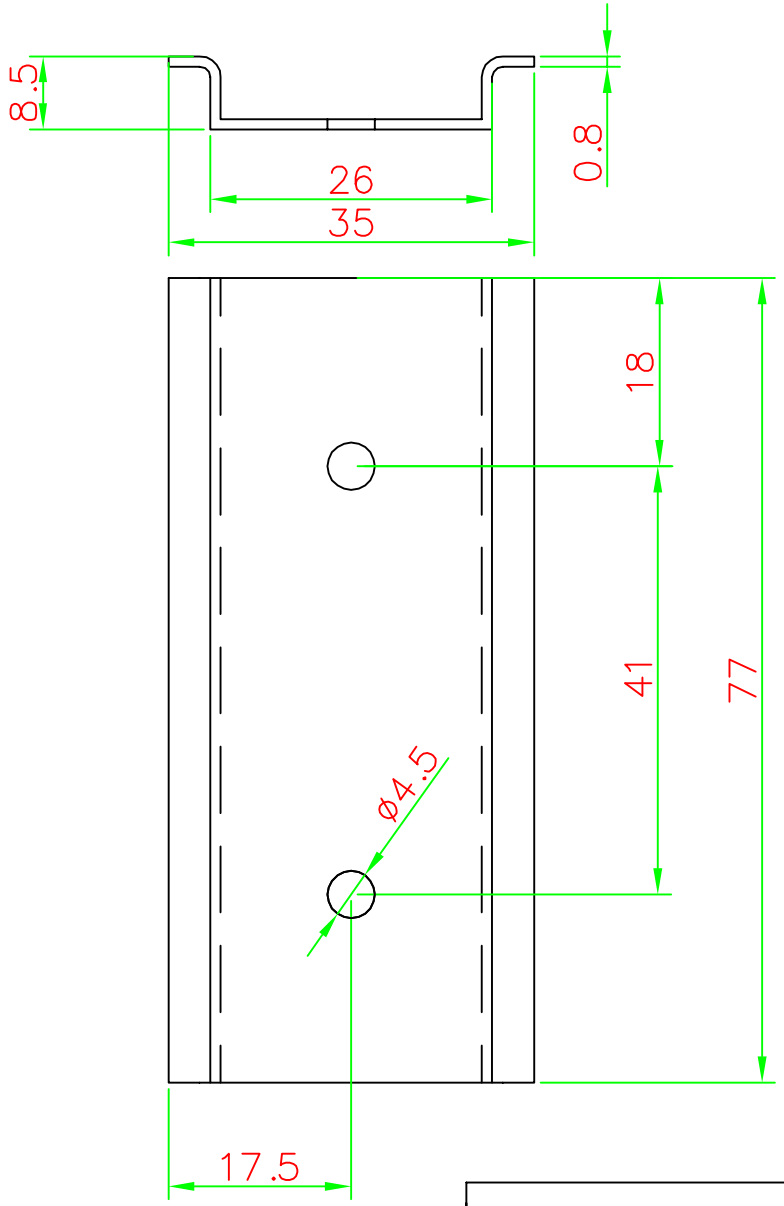


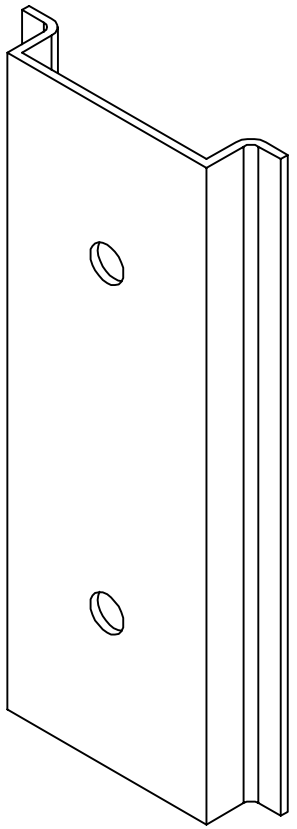




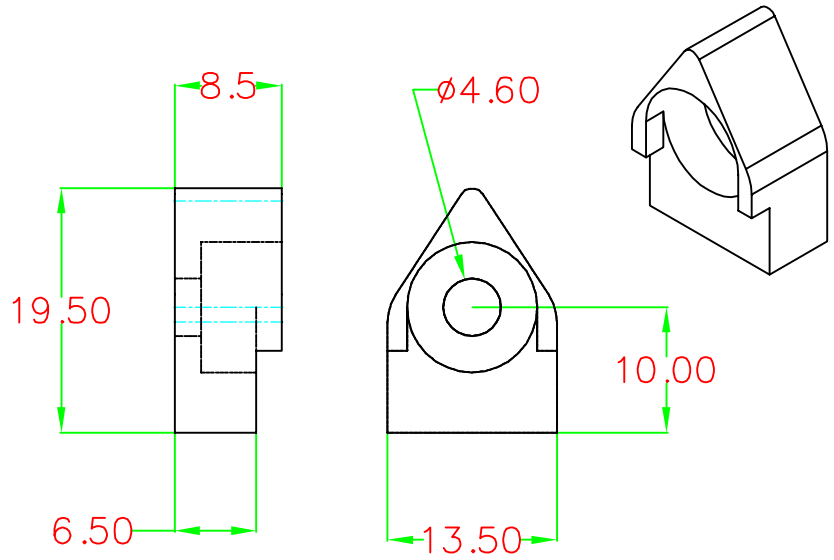


ΔΕΔΔΗΕ	ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ **ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ**	**ΑΡ. ΣΧΕΔΙΟΥ:** 3.4.2
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΧΟΑΝΗ	**ΗΜΕΡΟΜΗΝΙΑ:** 26/4/2021

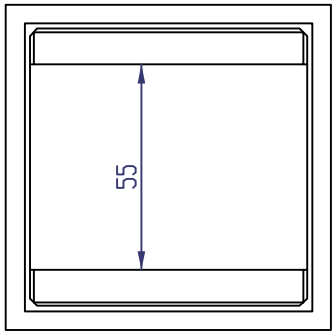


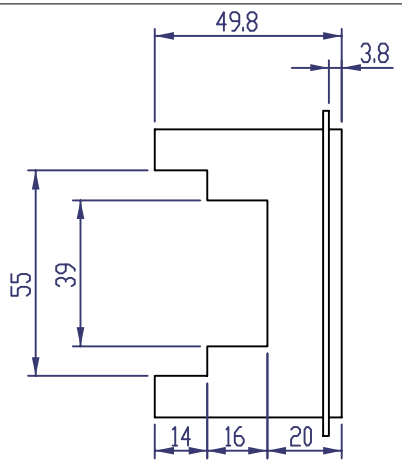


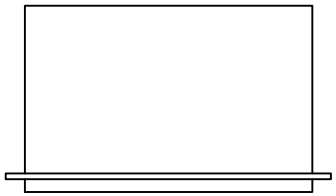
ΔΕΔΔΗΕ	ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ	ΑΡ. ΣΧΕΔΙΟΥ: 3.4.3
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΡΑΓΑ	ΗΜΕΡΟΜΗΝΙΑ: 26/4/2021

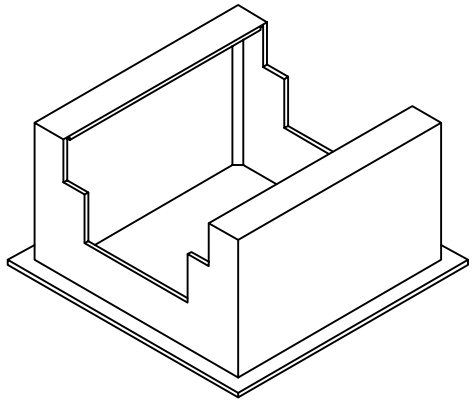


ΔΕΔΔΗΕ	ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ	ΑΡ. ΣΧΕΔΙΟΥ: 3.4.4
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΠΛΑΣΤΙΚΟ ΣΤΗΡΑΤΗΣΗΣ ΧΟΑΝΩΝ ΜΙΚΡΟΑΥΤΟΜΑΤΟΥ ΚΙΒΩΤΙΩΝ ΤΟΠΟΘΕΤΗΣΗΣ ΜΟΝΟΦΑΣΙΚΩΝ ΚΑΙ ΤΡΙΦΑΣΙΚΩΝ "ΕΞΥΠΝΩΝ" ΜΕΤΡΗΤΩΝ Χ.Τ.	ΗΜΕΡΟΜΗΝΙΑ: 26/4/2021

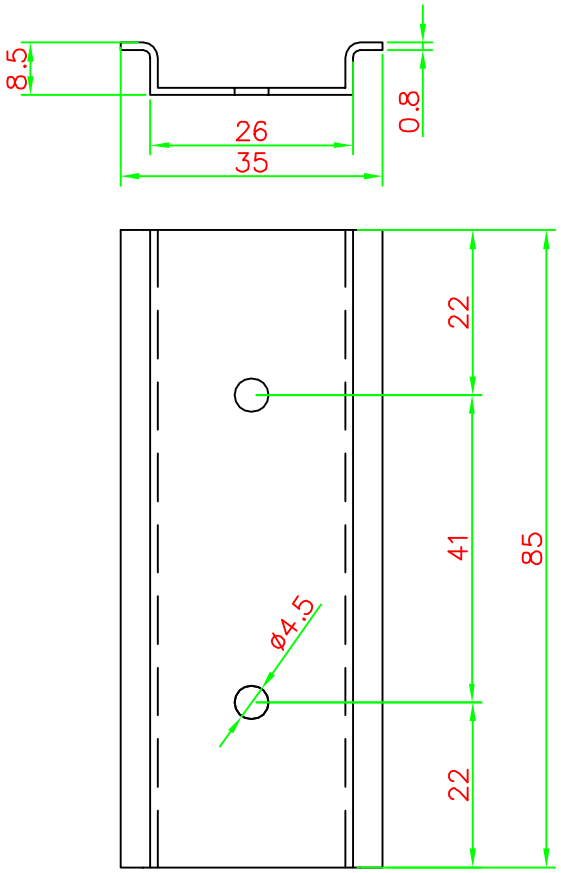


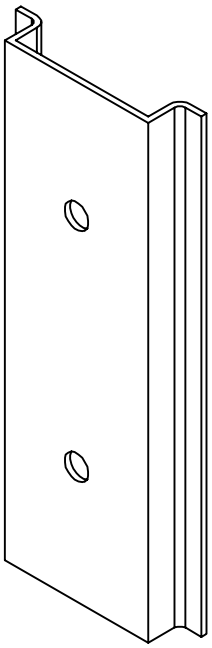




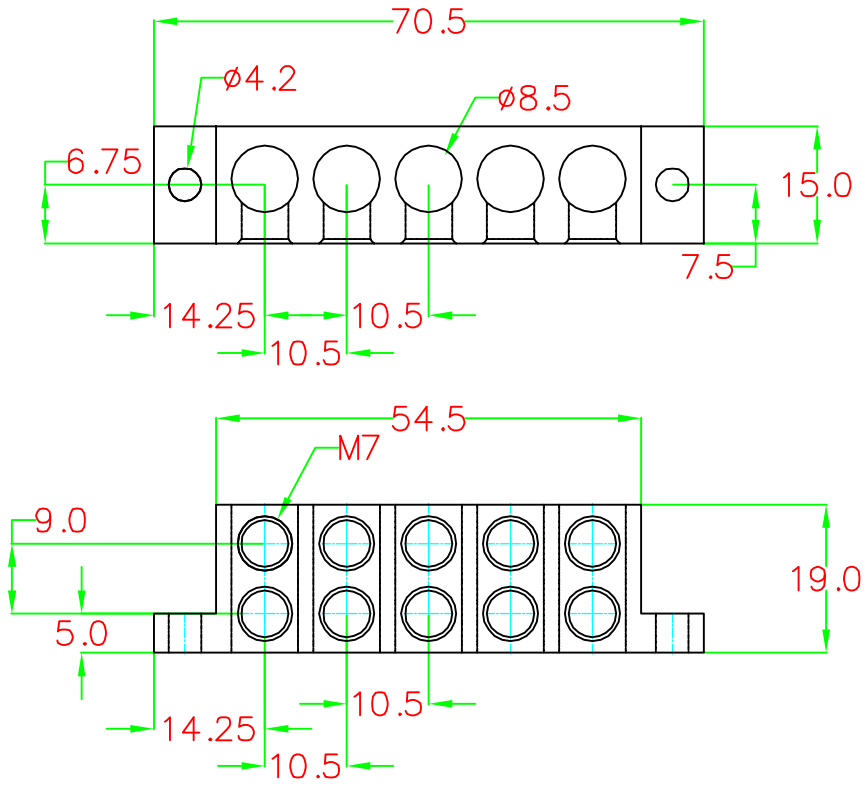


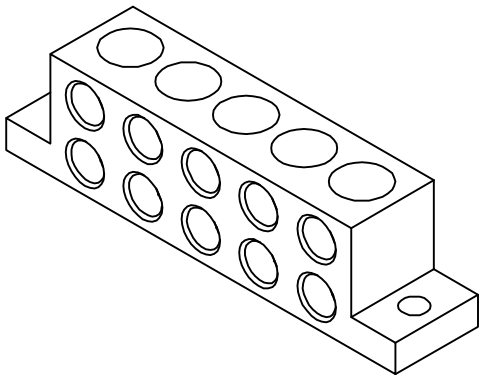
ΔΕΔΔΗΕ	ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ	ΑΡ. ΣΧΕΔΙΟΥ: 3.4.5
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΧΟΑΝΗ (100Α)	ΗΜΕΡΟΜΗΝΙΑ: 26/4/2021



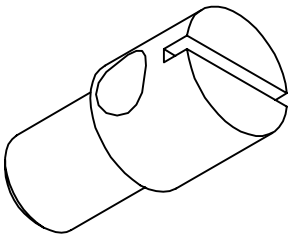


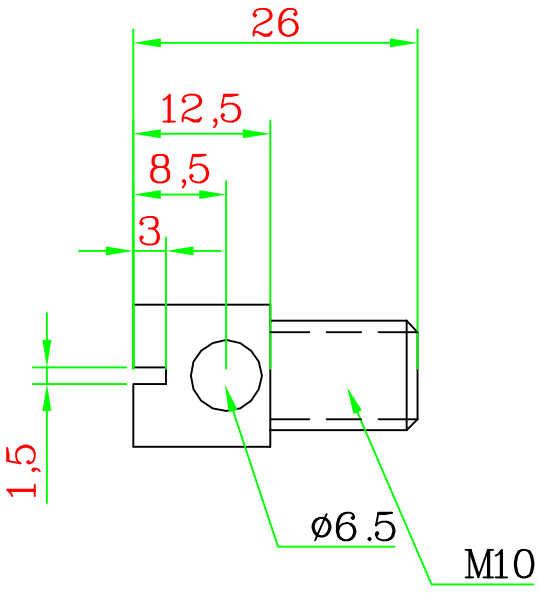
ΔΕΔΔΗΕ	ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ	ΑΡ. ΣΧΕΔΙΟΥ: 3.4.6
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΡΑΓΑ (100 Α)	ΗΜΕΡΟΜΗΝΙΑ: 26/4/2021

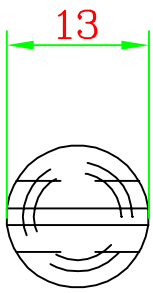




ΔΕΔΔΗΕ	ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ	ΑΡ. ΣΧΕΔΙΟΥ: 3.5.1
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΑΚΡΟΔΕΚΤΗΣ ΓΕΙΩΣΗΣ	ΗΜΕΡΟΜΗΝΙΑ: 26/4/2021







ΔΕΔΔΗΕ	ΔΙΕΥΘΥΝΣΗ ΔΙΚΤΥΟΥ ΚΛΑΔΟΣ ΜΕΤΡΗΣΕΩΝ	ΑΡ. ΣΧΕΔΙΟΥ: 3.5.2
	ΤΙΤΛΟΣ ΣΧΕΔΙΟΥ : ΚΙΒΩΤΙΟ ΓΙΑ ΤΡΙΦΑΣΙΚΟ ΕΞΥΠΝΟ ΜΕΤΡΗΤΗ ΒΙΔΑ ΑΣΦΑΛΕΙΑΣ	ΗΜΕΡΟΜΗΝΙΑ: 26/4/2021