



INSTYTUT TECHNIKI BUDOWLANEJ



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European Technical Assessment

ETA-26/0169
of 26/06/2026



General Part

Technical Assessment Body issuing the European Technical Assessment

Instytut Techniki Budowlanej

Trade name of the construction product

NOVIPRO WOOD CONNECTORS

Product family to which the construction product belongs

Three-dimensional nailing plates

Manufacturer

Optimera AS
Ostre Aker Vei 260, Postboks 40, Haugenstua
0915 Oslo, Norway

Manufacturing plant

Manufacturing Plant 1

This European Technical Assessment contains

104 pages including 2 Annexes which form an integral part of this Assessment

This European Technical Assessment is issued in accordance with Article 95(4) of Regulation (EU) 2024/3110, on the basis of

European Assessment Document (EAD)
130186-00-0603 "Three-dimensional nailing plates"

This version replaces

ETA-26/0169 issued on 15/04/2026



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Specific Part

1 Technical description of the product

The NOVIPRO WOOD CONNECTORS are three-dimensional nailing plates made of steel profiles:

- 101908188, 101908187, 101908194, 101908182, 101908180, KIWC-AB-006 - KIWC-AB-011, 101908193, 101908186, 101908189, 101908175, 101908176, KIWC-AB-017, 101908174, 101908177, 101908178, 101908179, 101908181, 101908183, 101908184, 101908185, 101908190, 101908191, 101908192 and KIWC-AB-029 - KIWC-AB-047, according to figures A1 to A47,
- KIWC-AAB-001 and KIWC-AAB-002, according to figures A48 and A49,
- KIWC-UC-001 and KIWC-UC-002, according to figures A50 and A51,
- 101908140 and 101908141, according to figures A52 and A53,
- KIWC-SF-001 and KIWC-SF-002, according to figures A54 and A55,
- KIWC-JH-001 - KIWC-JH-005, 101908135, 101908133, KIWC-JH-008 - KIWC-JH-014, 101908136, KIWC-JH-016 - KIWC-JH-026, 101908134 and KIWC-JH-028, according to figures A56 to A83,
- KIWC-RA-01 - KIWC-RA-04, according to figures A84 to A87,
- 101908172, 101908173, 101908169, 101908170, KIWC-RF-006, KIWC-RF-007 and KIWC-RF-010, according to figures A88 to A94.

Three-dimensional nailing plates: 101908188, 101908187, 101908194, 101908182, 101908180, KIWC-AB-006 - KIWC-AB-011, 101908193, 101908186, 101908189, 101908175, 101908176, KIWC-AB-017, 101908174, 101908177, 101908178, 101908179, 101908181, 101908183, 101908184, 101908185, 101908190, 101908191, 101908192, KIWC-AB-029 - KIWC-AB-047, KIWC-AAB-001, KIWC-AAB-002, KIWC-UC-001, KIWC-UC-002, 101908140, 101908141, KIWC-SF-001, KIWC-SF-002, KIWC-JH-001 - KIWC-JH-005, 101908135, 101908133, KIWC-JH-008 - KIWC-JH-014, 101908136, KIWC-JH-016 - KIWC-JH-026, 101908134, KIWC-JH-028, 101908172, 101908173, 101908169, 101908170, KIWC-RF-006, KIWC-RF-007 and KIWC-RF-010 are made of hot-dip galvanized steel sheet grade S250GD+Z275 according to EN 10346 or galvanized steel sheet grade S250GD with zinc coating class 550 according to IS 277:2018 or made of structural steel grade GP250 according to IS 277:2018 with zinc coating class 550 according to IS 277:2018.

Three-dimensional nailing plates: KIWC-RA-01 to KIWC-RA-04 are made of electroplated zinc coated steel sheet grade S235JR according to EN 10025, with minimum 15 µm of zinc layer according to EN ISO 2081.

The range of the products is given in Annex A. The material properties, dimensions and tolerances of the three-dimensional nailing plates NOVIPRO WOOD CONNECTORS not indicated in that Annex shall correspond to the respective values laid down in the technical documentation of this European Technical Assessment. The dimension tolerances shall meet the requirements of EN 22768-1.

2 Specification of the intended use in accordance with the applicable European Assessment Document (EAD)

The three-dimensional nailing plates NOVIPRO WOOD CONNECTORS are intended to be used for connecting the mutually perpendicular load-bearing solid timber elements, in side-grain to side-grain configurations.

The timber structures shall be made of solid timber of strength class C24 or higher according to EN 338. Minimum dimensions of the elements have to be considered (Annex A).

Ring shank nails according to EN 14592 with the diameter of 4 mm and characteristic tensile capacity $F_{ax,Rk}$ not less than 1,68 kN shall be used for joints made with the three-dimensional nailing plates NOVIPRO WOOD CONNECTORS.

The design of the joints shall be in accordance with EN 1993-1-1 (Eurocode 3) and EN 1995-1-1 (Eurocode 5).

The provisions made in this European Technical Assessment are based on an assumed working life of the three-dimensional nailing plates of 50 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer or Technical Assessment Body, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

3.1 Mechanical resistance and stability (BWR 1)

3.1.1 Joint strength

The characteristic load-carrying capacities of joints loaded according to static diagrams (see Annexes B1 to B5), determined by tests, are given in Annex B.

3.1.2 Joint stiffness

No performance assessed.

3.1.3 Joint ductility

No performance assessed.

3.1.4 Resistance to seismic actions

No performance assessed.

3.1.5 Resistance to corrosion and deterioration

In respect to the requirements concerning corrosion resistance, three-dimensional nailing plates are intended to be used in timber structures service classes:

- 1, 2 and 3 according to EN 1995-1-1 (Eurocode 5) for three-dimensional nailing plates with thickness of steel sheet ≥ 3 mm, made of structural steel grade GP250 according to IS 277:2018 with zinc coating class 550 according to IS 277:2018,
- 1 and 2 according to EN 1995-1-1 (Eurocode 5) for three-dimensional nailing plates with thickness of steel sheet < 3 mm, made of other materials described in clause 1.

3.2 Safety in case of fire (BWR 2)

3.2.1 Reaction to fire

The three-dimensional nailing plates are classified as Class A1 of reaction to fire in accordance with EN 13501-1 and European Commission Decision 96/603/EC amended by European Commission Decision 2000/605/EC.

3.2.2 Resistance to fire

No performance assessed.

3.3 Methods used for the assessment

The assessment has been made in accordance with EAD 130186-00-0603.

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

According to Decision 97/638/EC of the European Commission the system 2+ of assessment and verification of constancy of performance applies (see Annex V to Regulation (EU) 305/2011).

5 Technical details necessary for the implementation of the AVCP system, as provided in the applicable European Assessment Document (EAD)

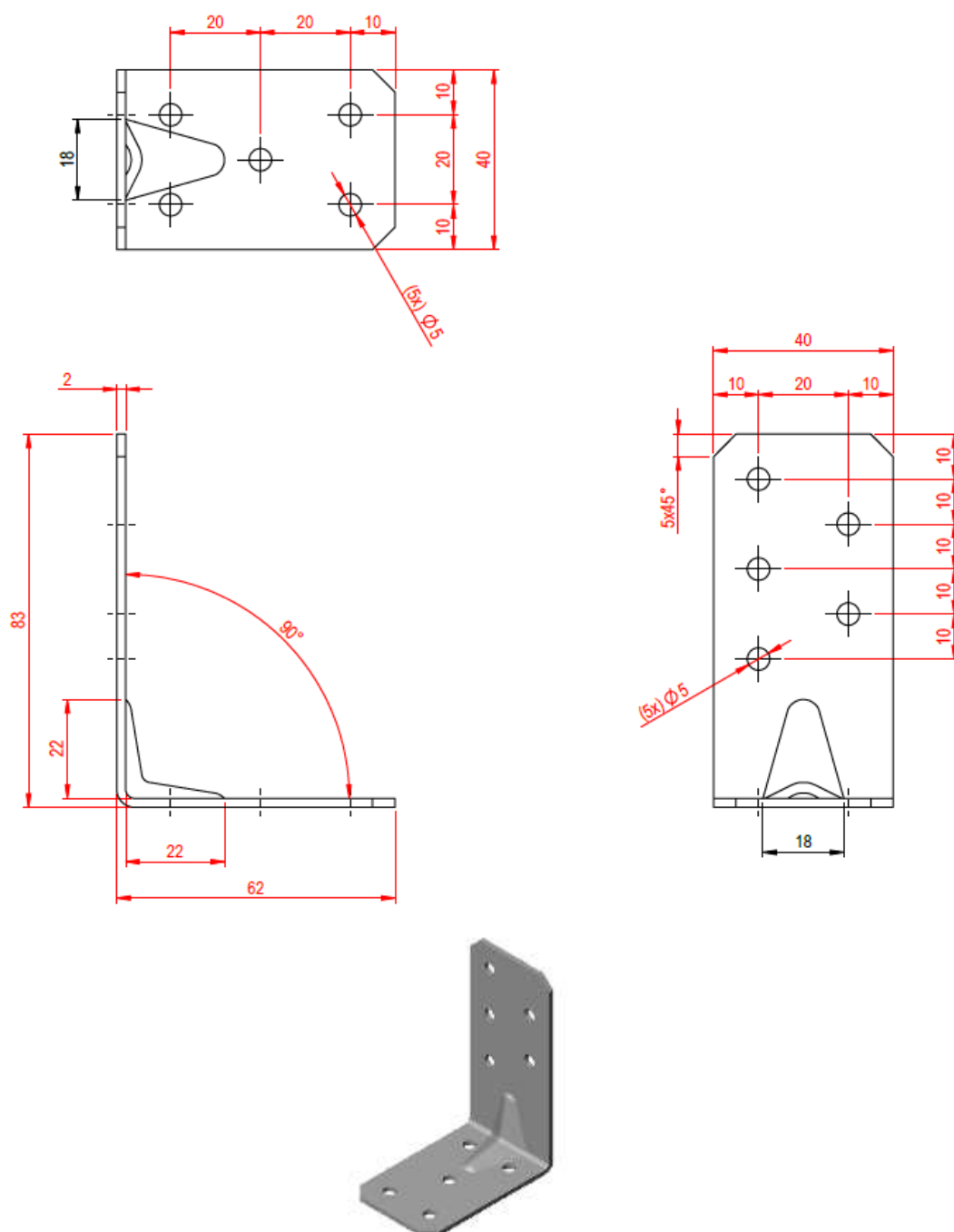
Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited in Instytut Techniki Budowlanej.

For type testing the results of the tests performed as part of the assessment for the European Technical Assessment shall be used unless there are changes in the production line or plant. In such cases the necessary type testing has to be agreed between Instytut Techniki Budowlanej and the notified body.

Issued in Warsaw on 26/06/2026 by Instytut Techniki Budowlanej



Anna Panek, MSc
Deputy Director of ITB

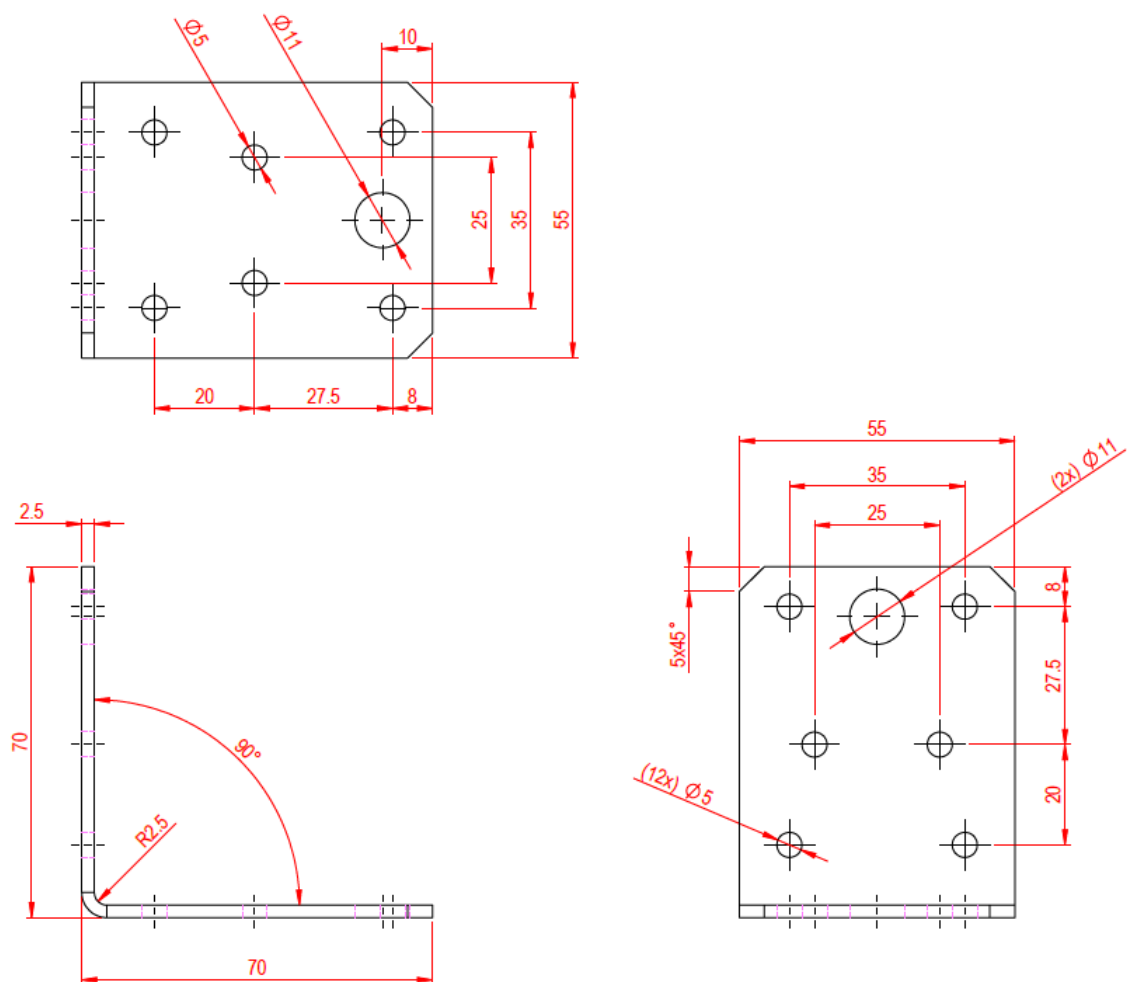


83x62x40x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908188

Annex A1
of European
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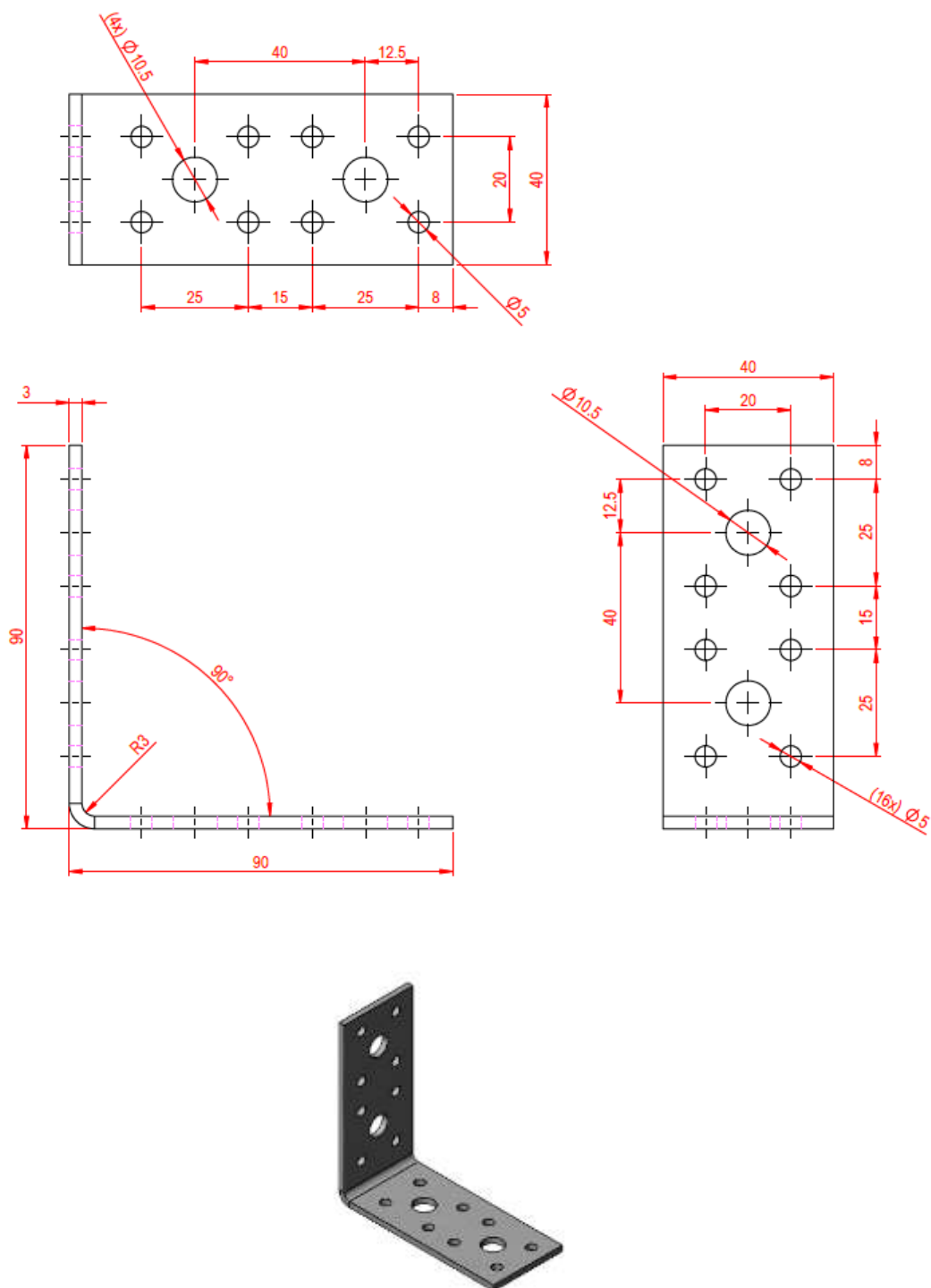


70x70x55x2,5 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908187

Annex A2
of European
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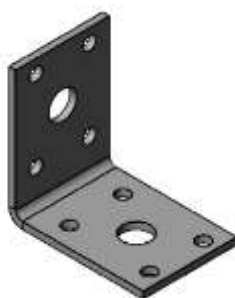
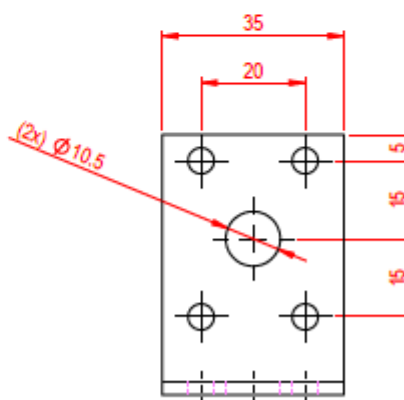
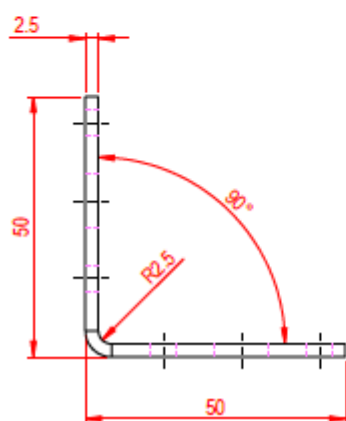
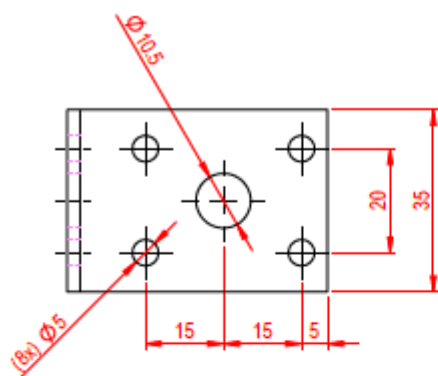


90x90x40x3 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908194

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of European
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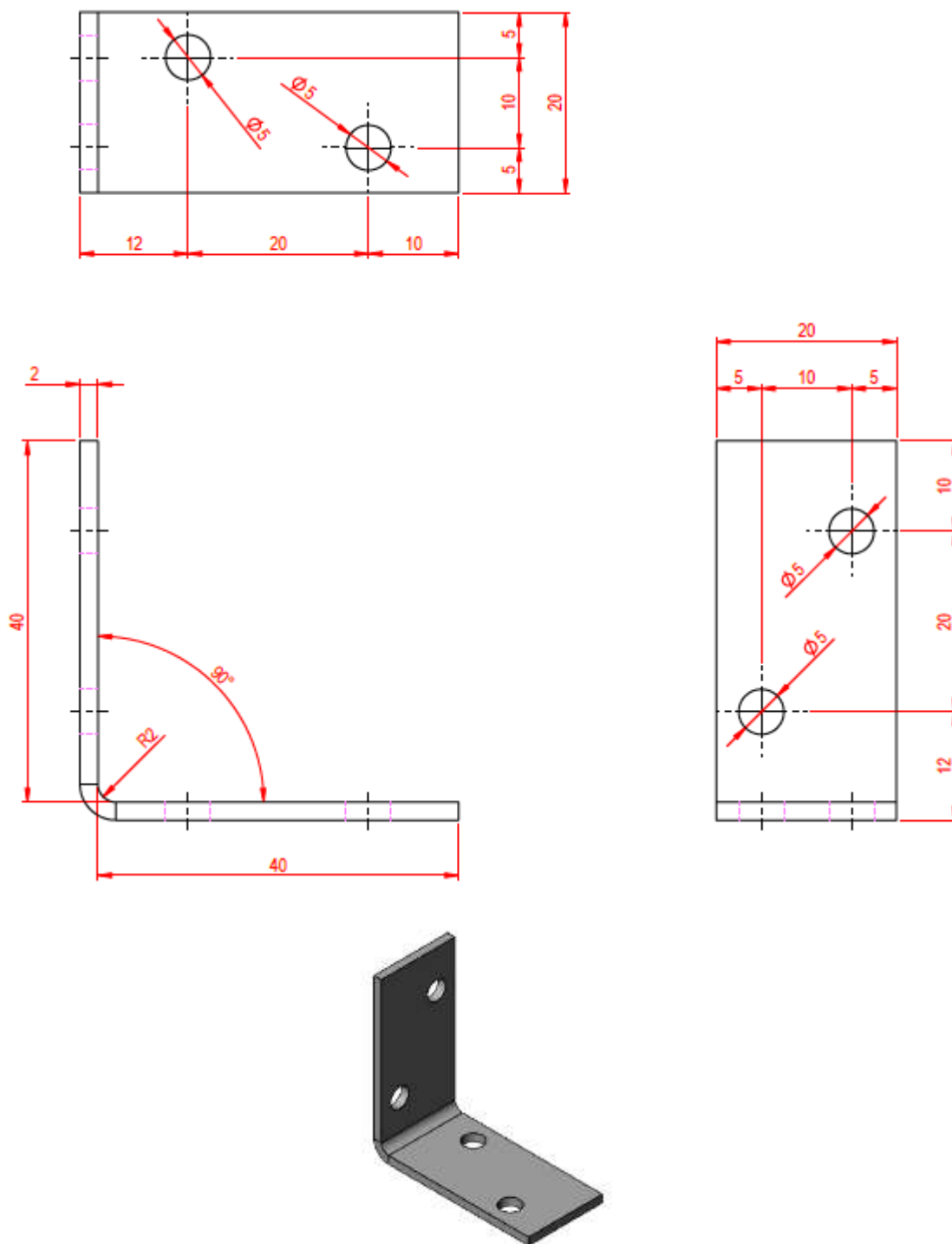


50x50x35x2,5 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908182

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of European
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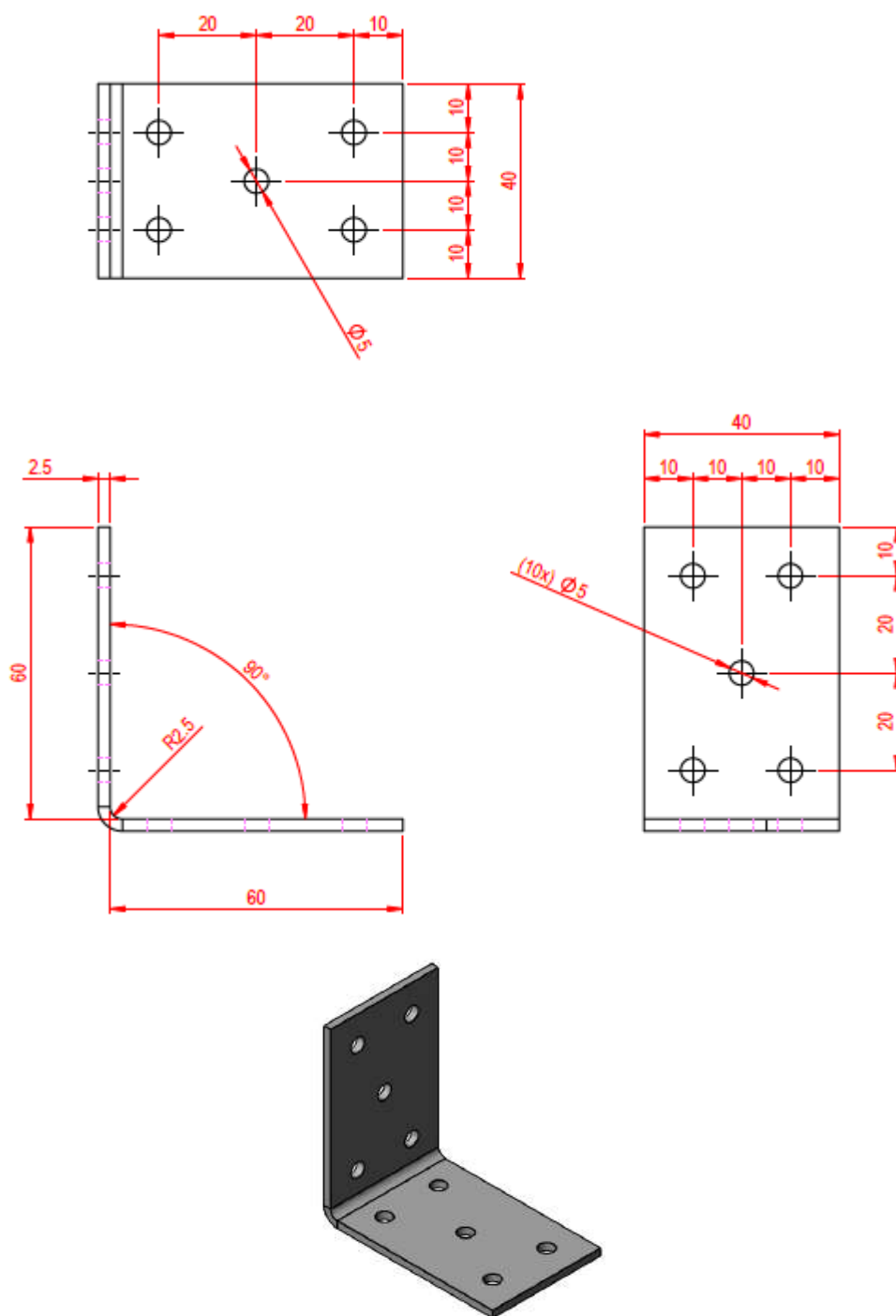


40x40x20x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908180

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of European
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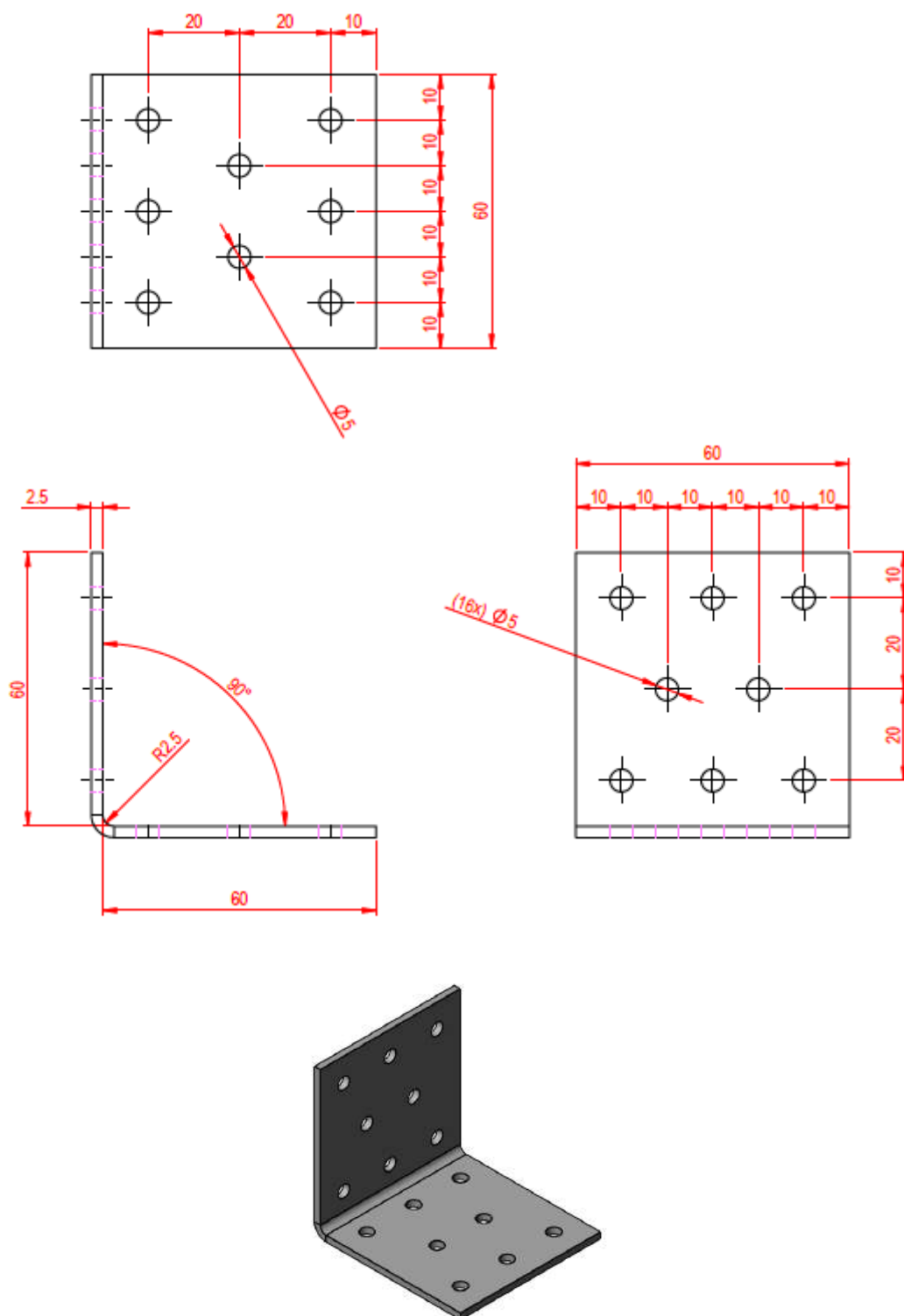


60x60x40x2,5 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-AB-006

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of European
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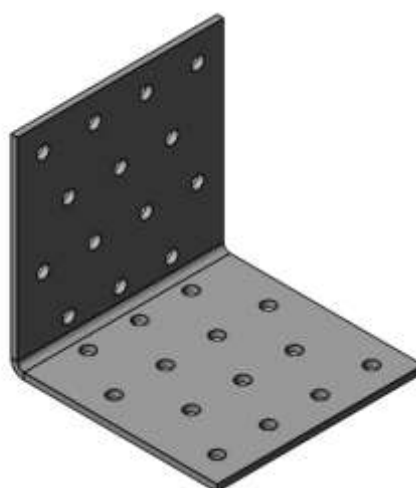
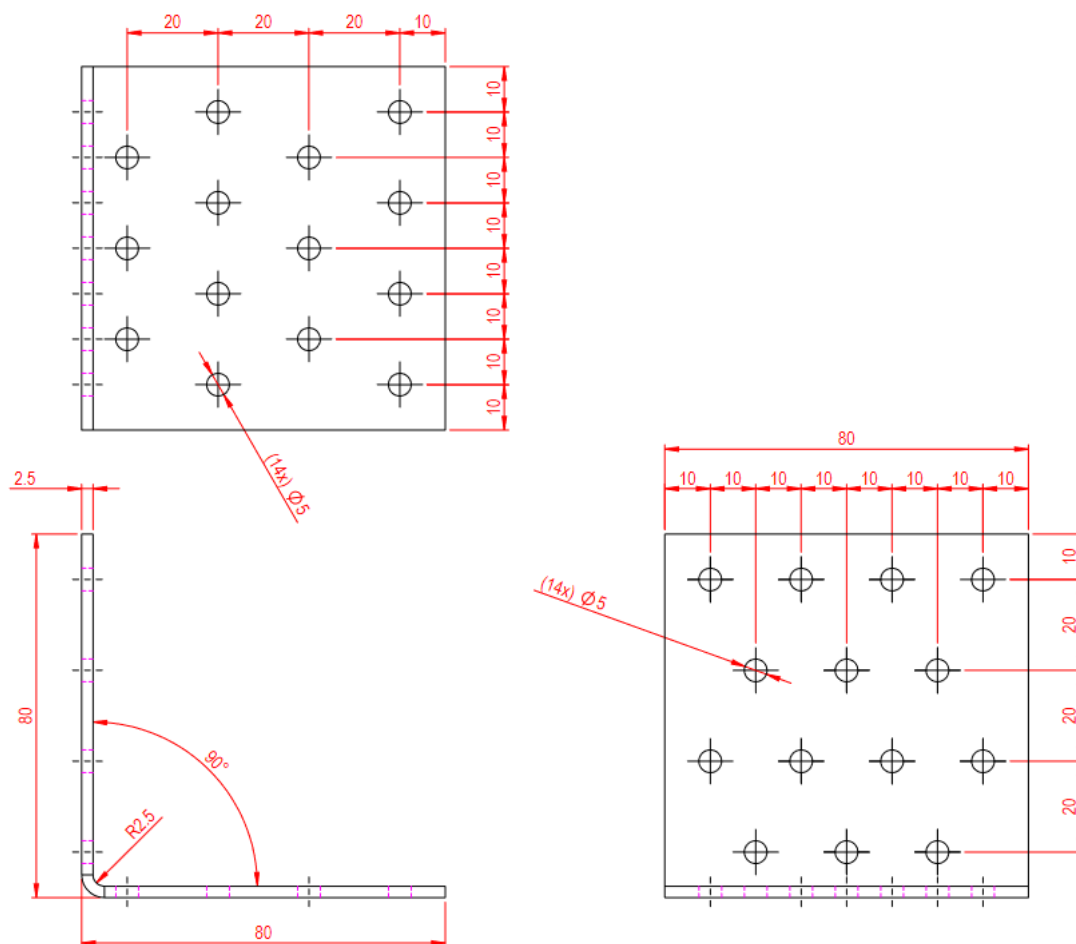


60x60x60x2,5 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-AB-007

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of European
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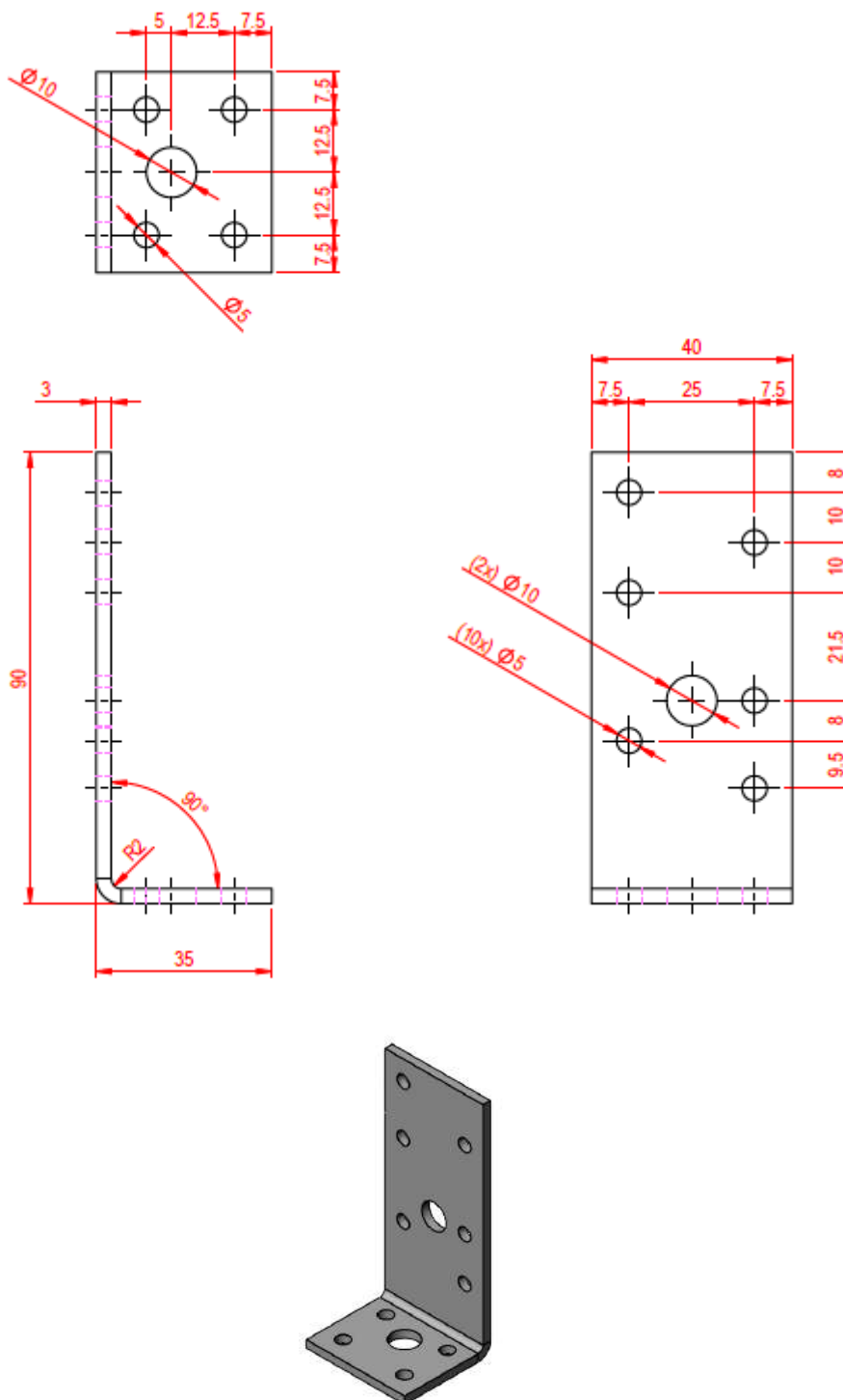


80x80x80x2,5 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-AB-008

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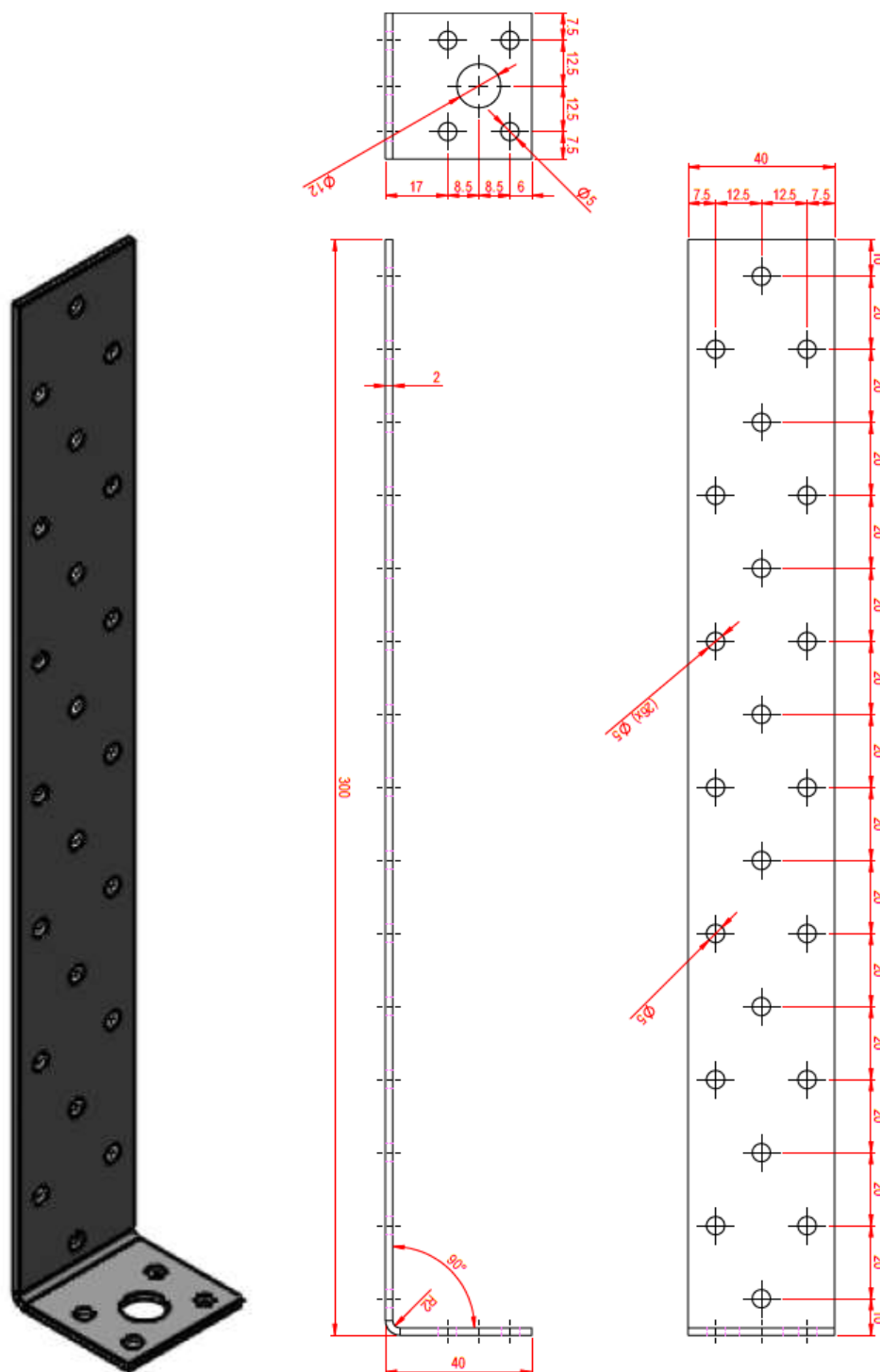


90x35x40x3 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-AB-009

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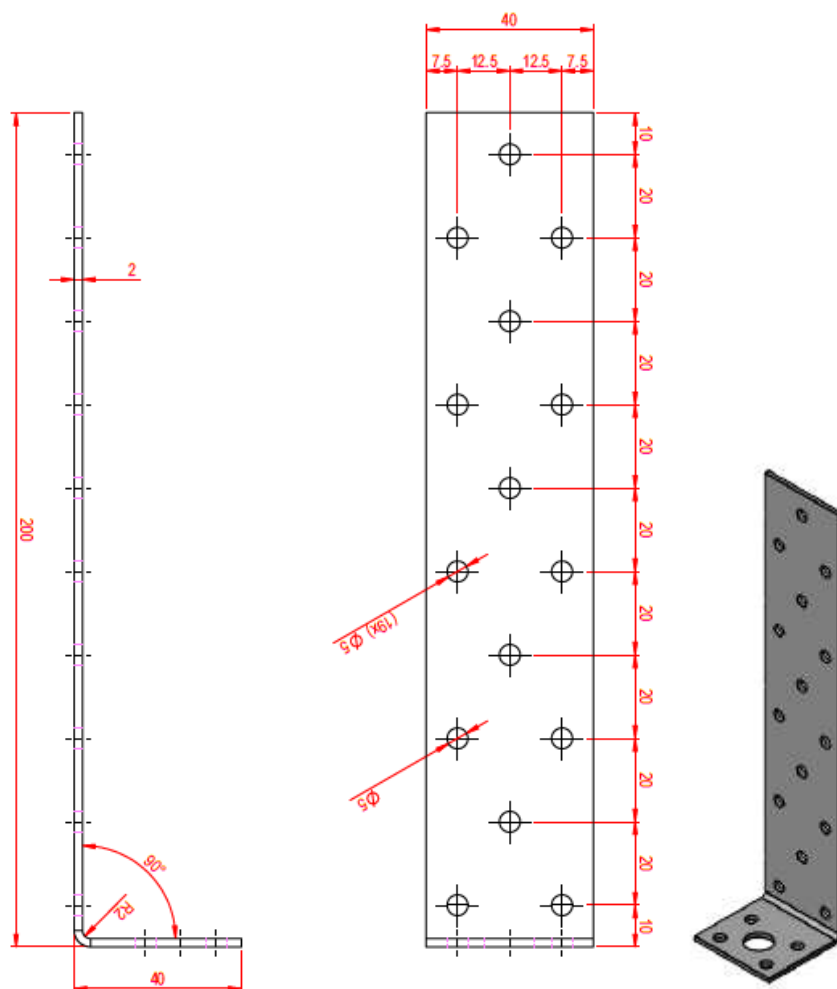
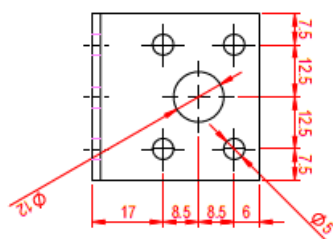


300x40x40x2 mm

NOVIPRO WOOD CONNECTORS

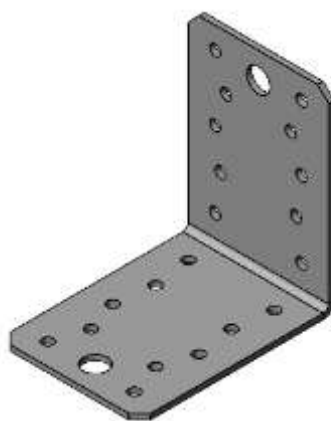
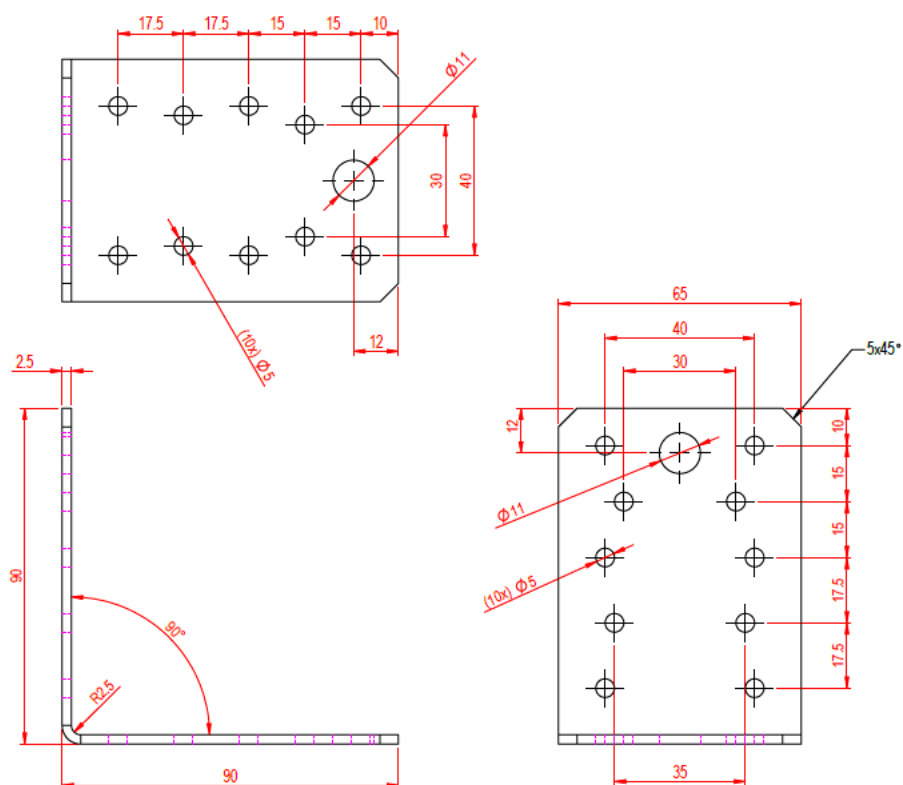
Three-dimensional nailing plates KIWC-AB-010

Annex A10
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200x40x40x2 mm

NOVIPRO WOOD CONNECTORS	Annex A11 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates KIWC-AB-011	

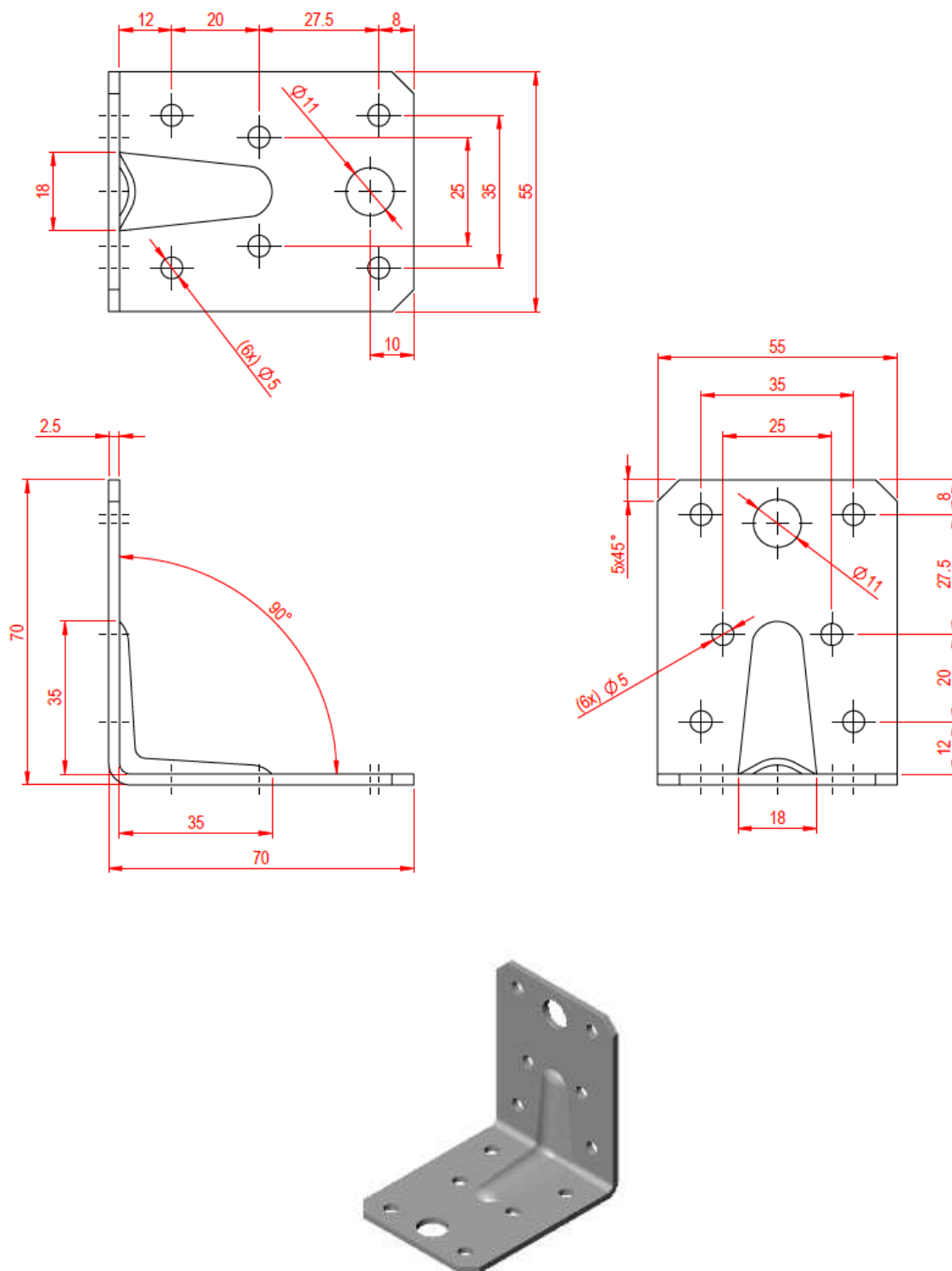


90x90x65x2,5 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908193

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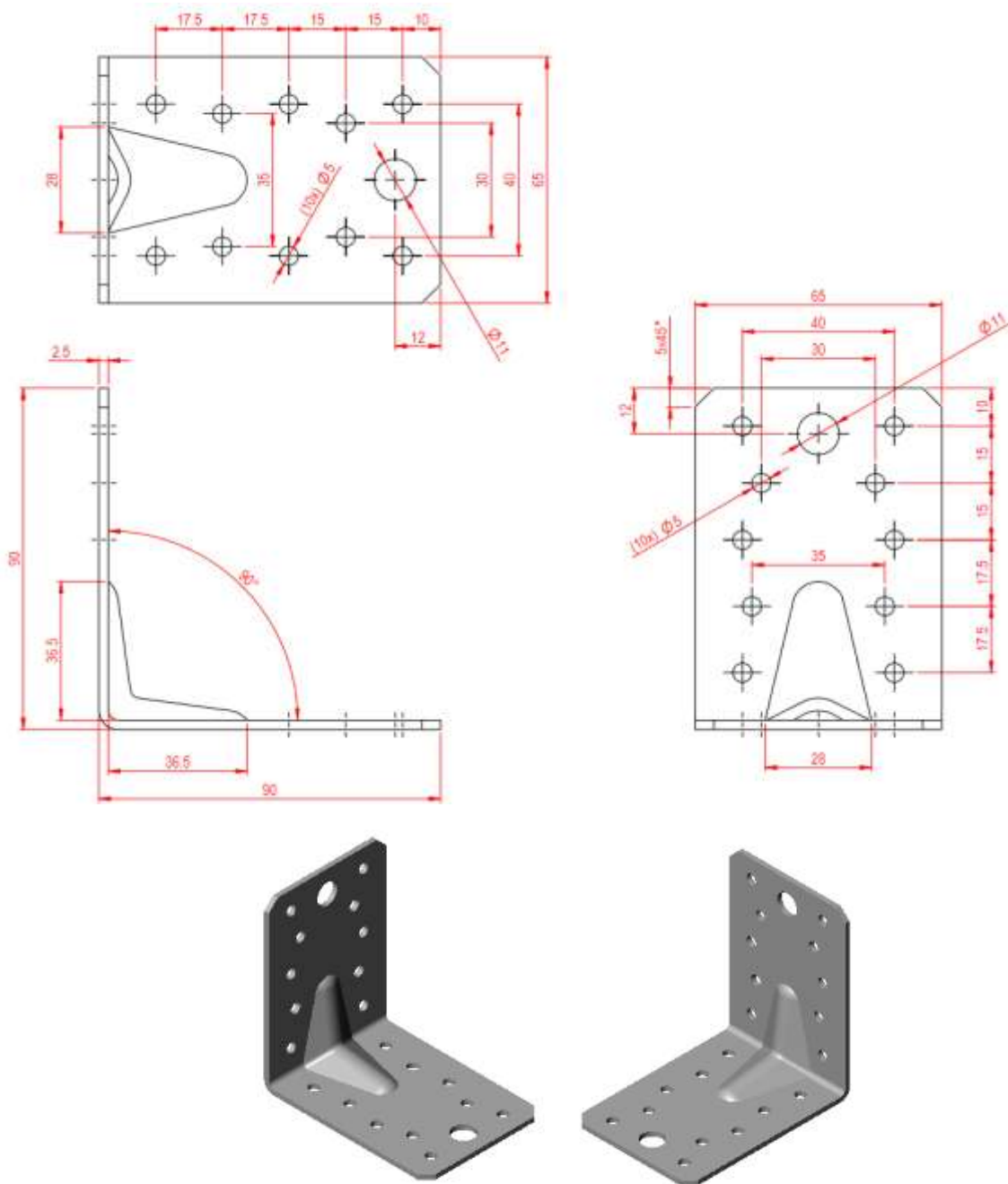


70x70x55x2,5 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908186

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of European
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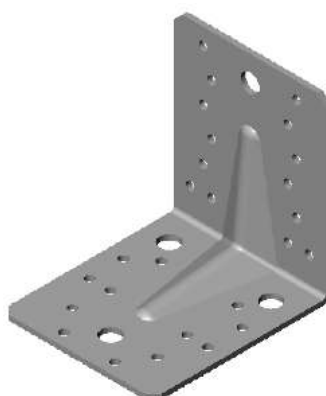
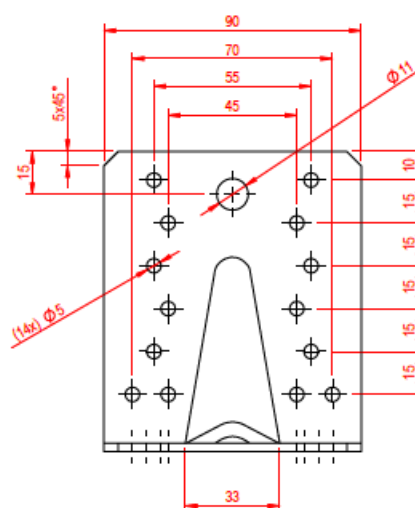
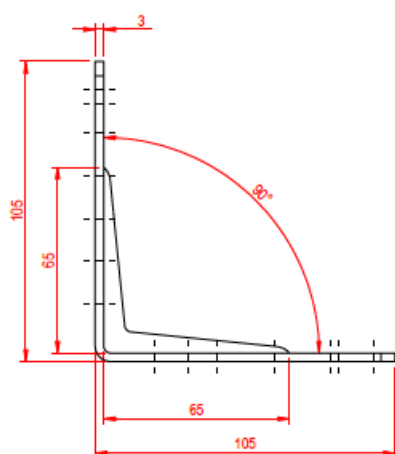
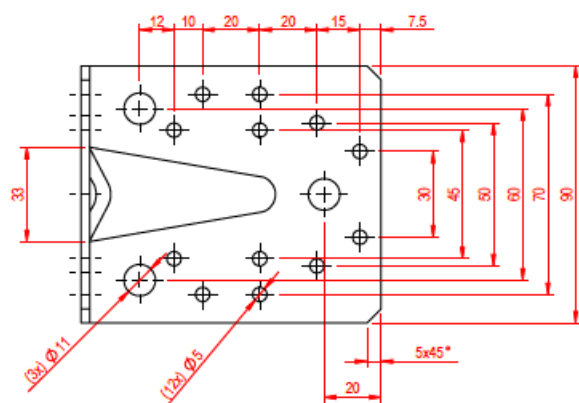


90x90x65x2,5 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908189

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of European
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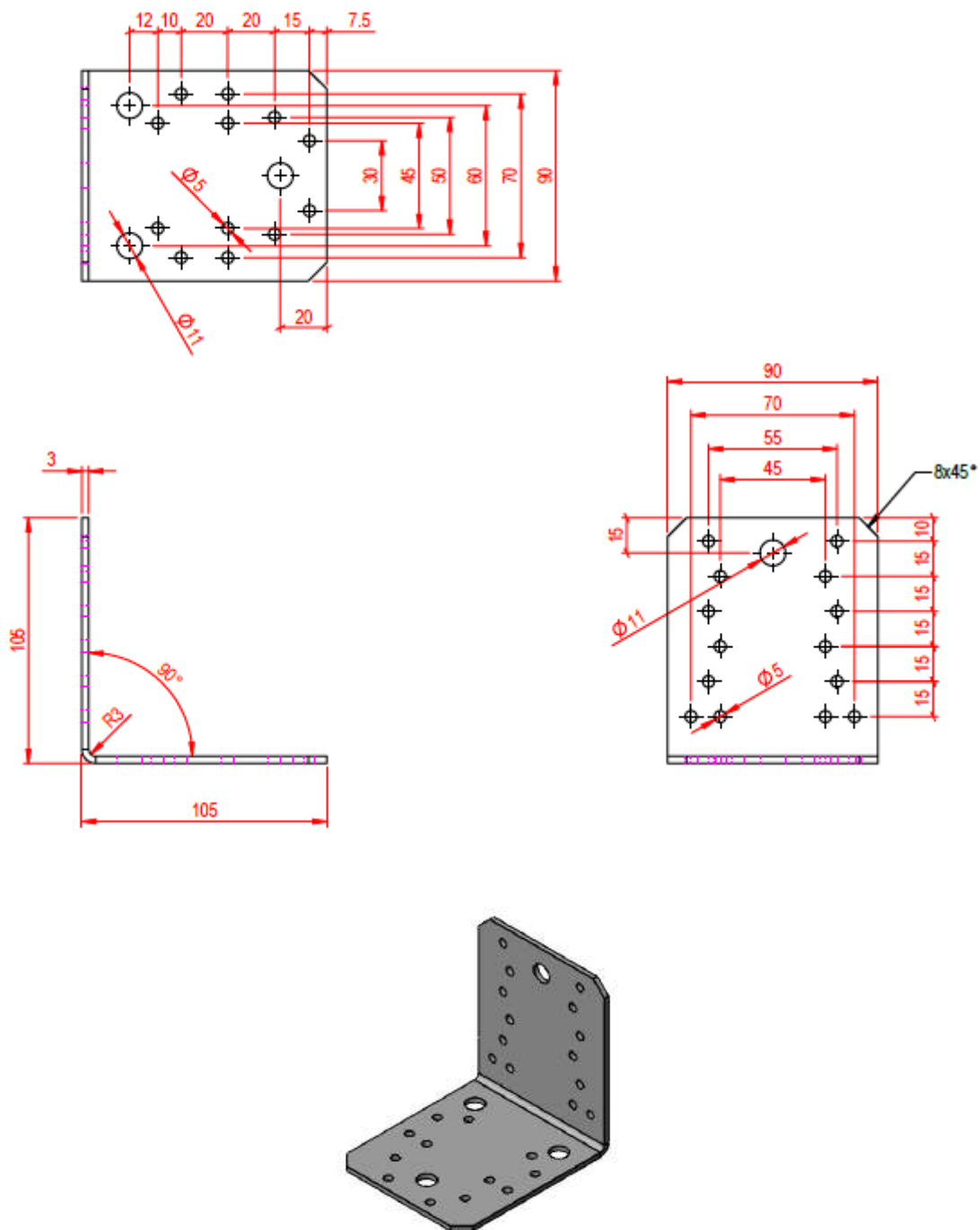


105x105x90x3 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908175

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of European
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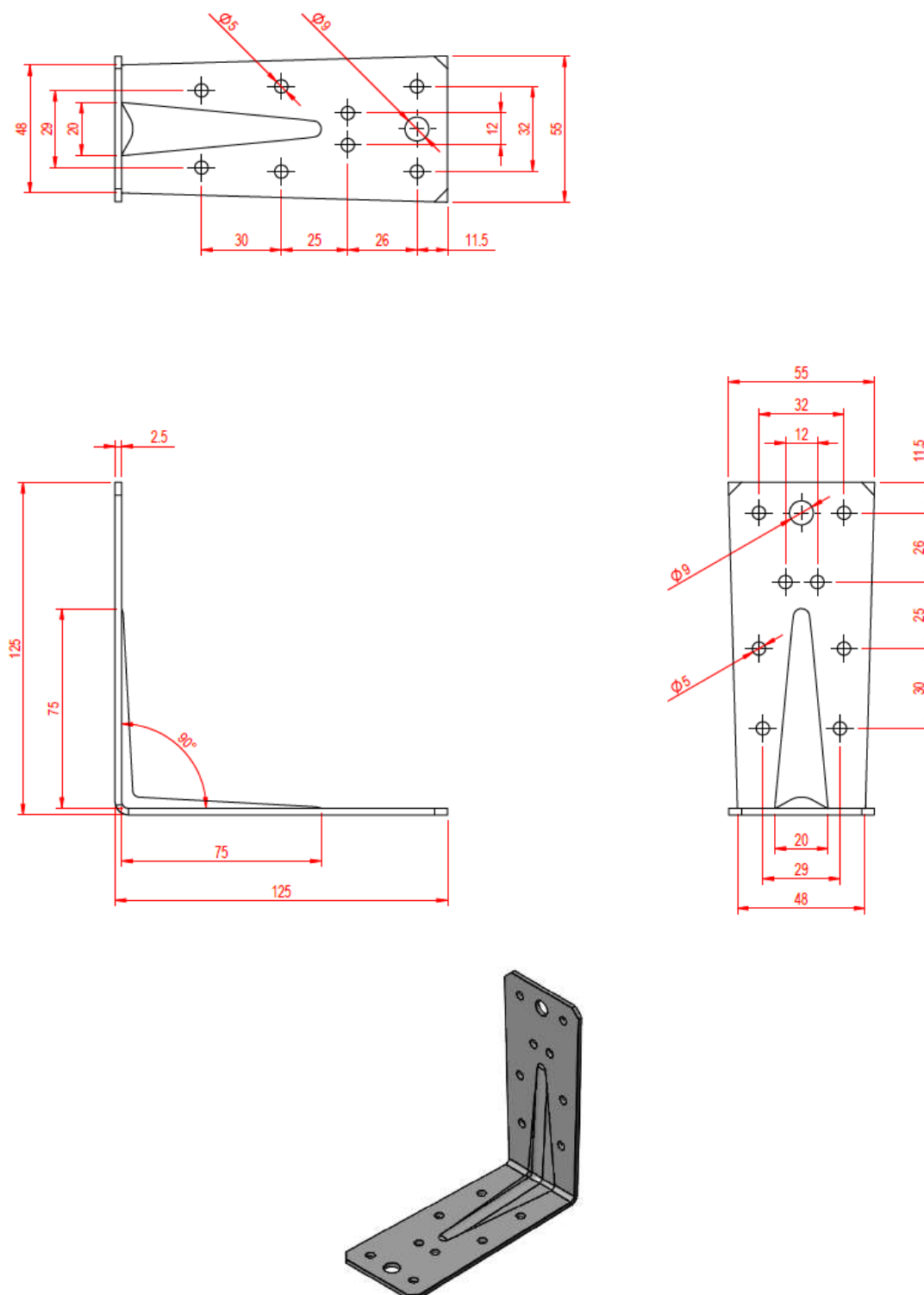


105x105x90x3 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908176

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of European
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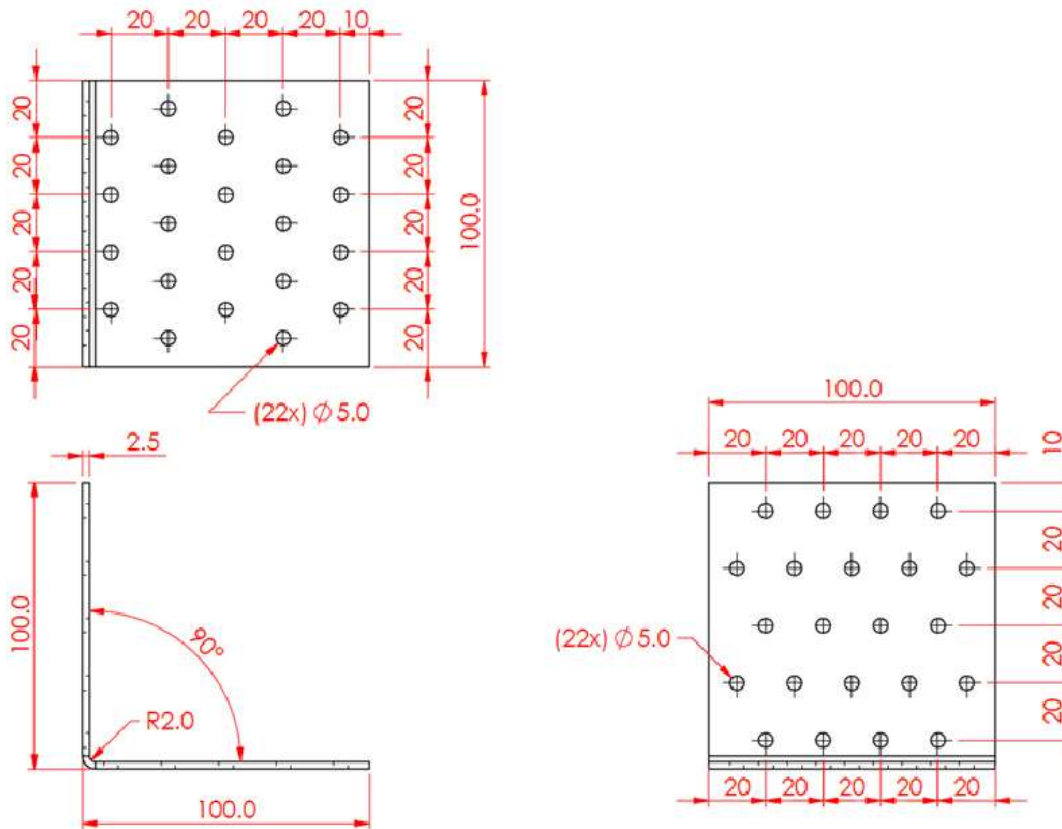


125x125x55x2,5 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-AB-017

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of European
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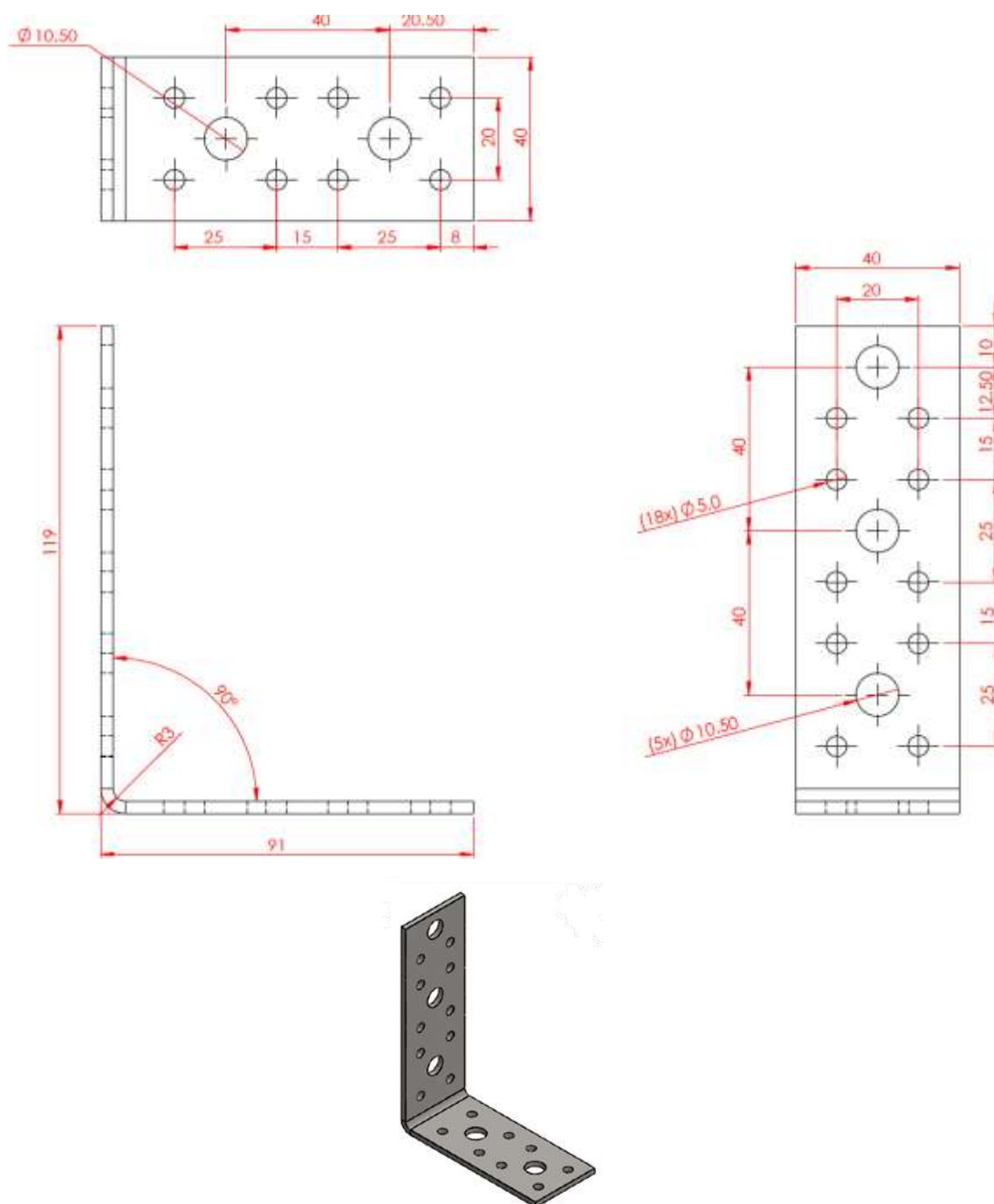


100x100x100x2,5 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908174

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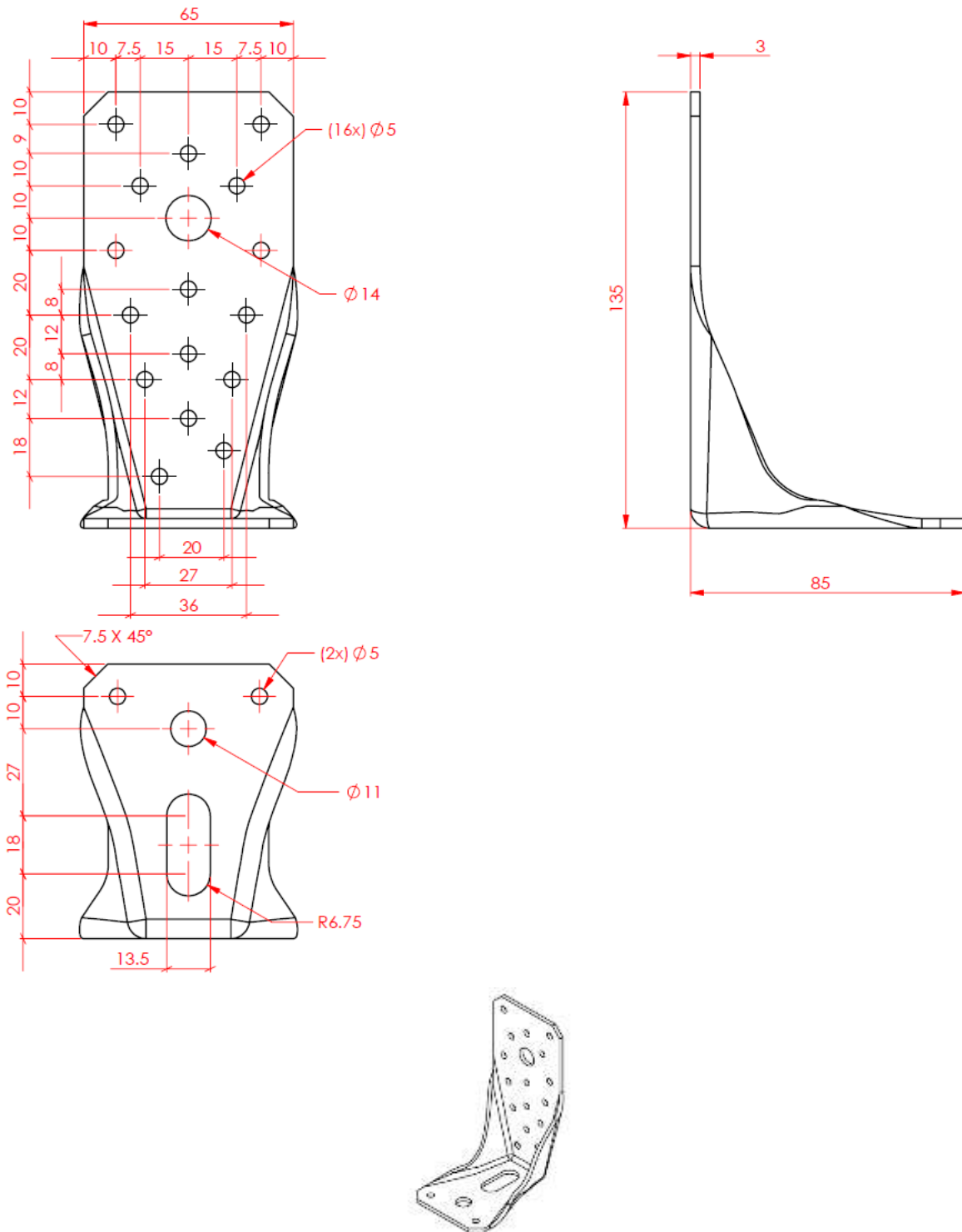


119x91x40x3 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908177

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of European
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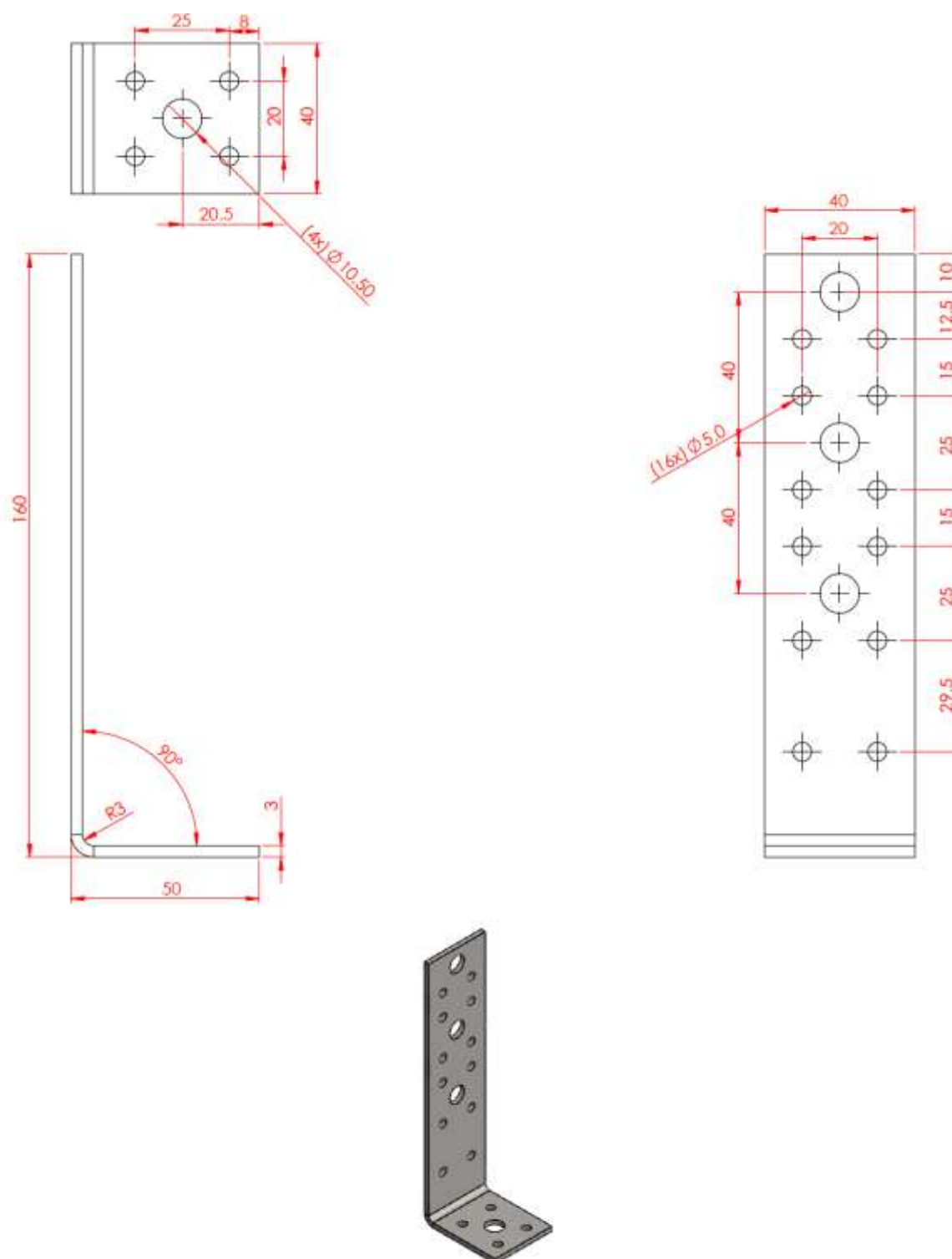


135x85x65x3 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908178

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of European
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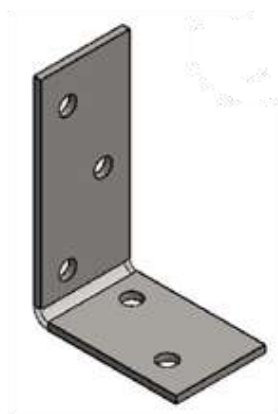
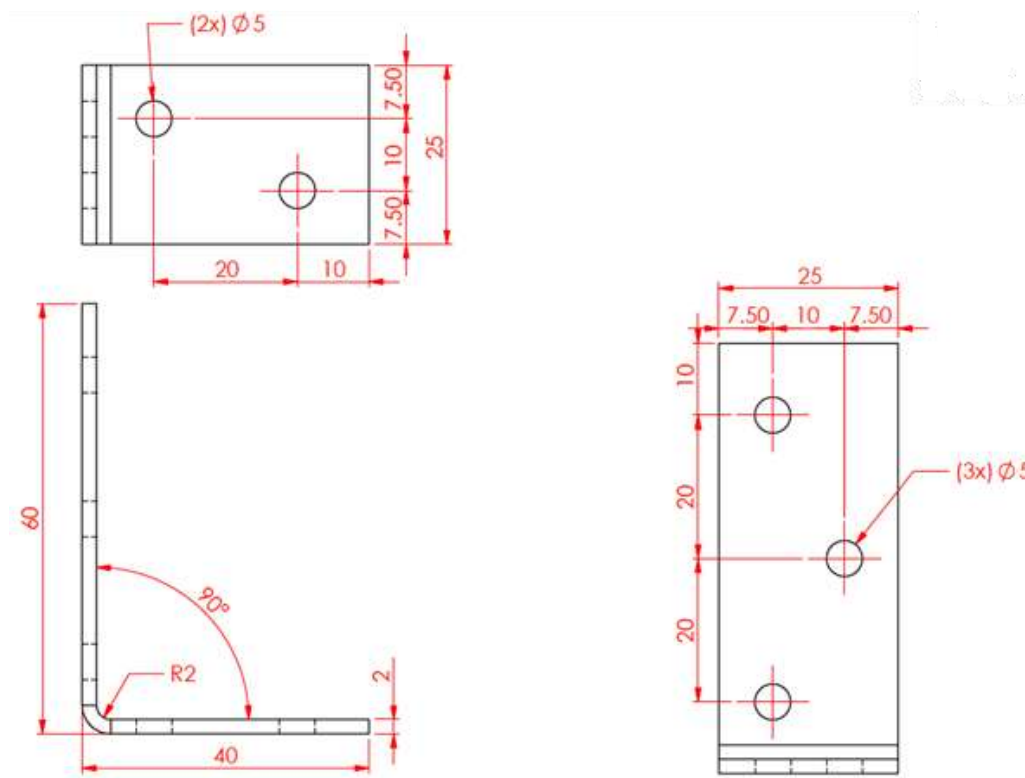


160x50x40x3 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908179

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of European
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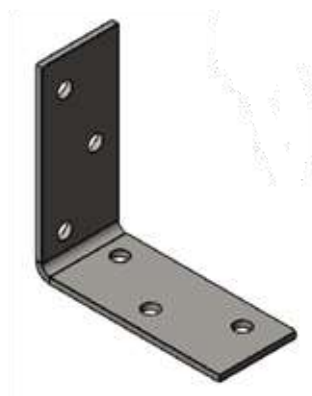
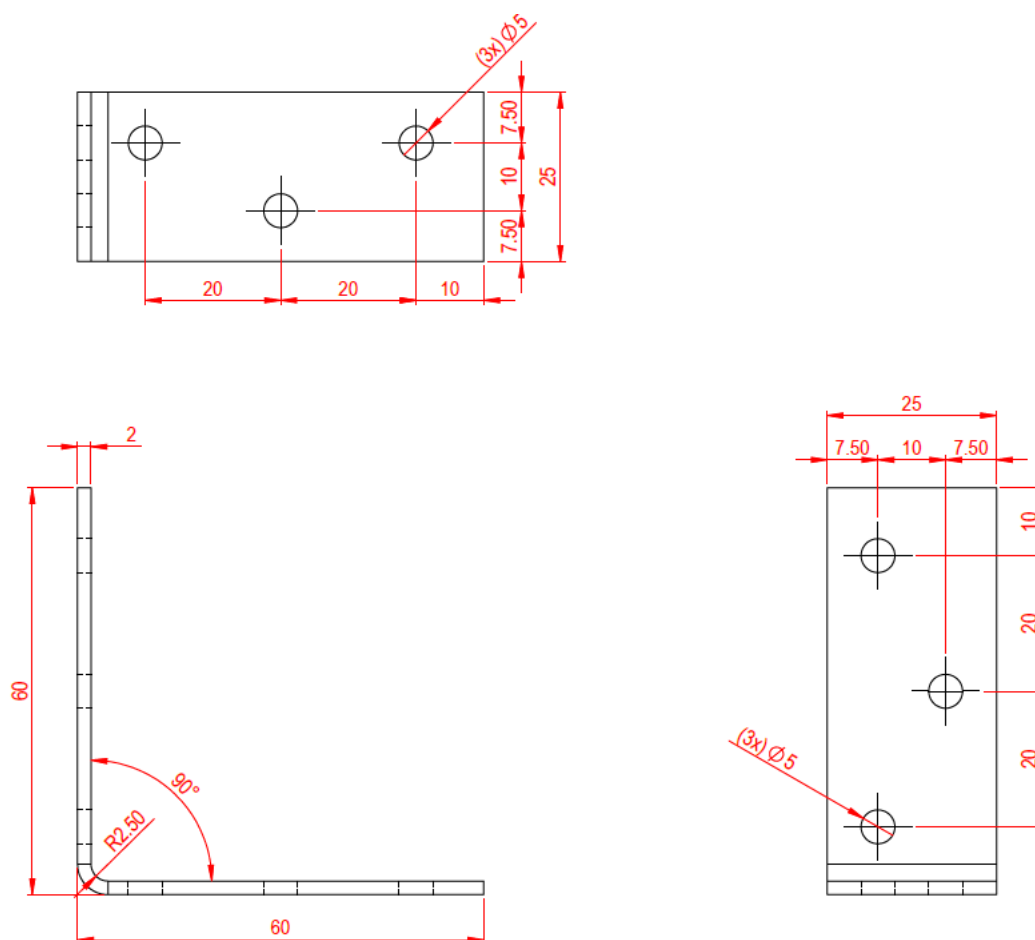


60x40x25x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908181

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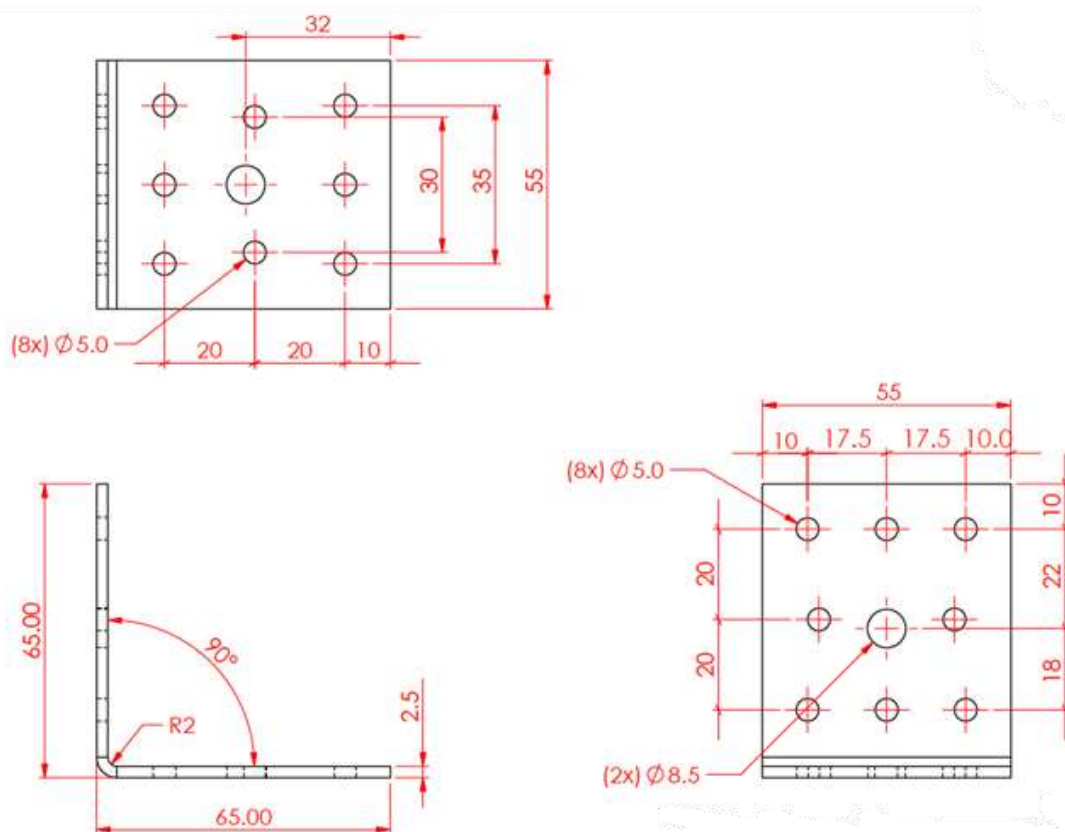


60x60x25x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908183

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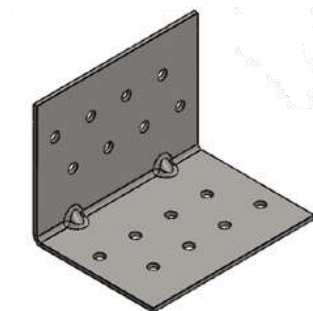
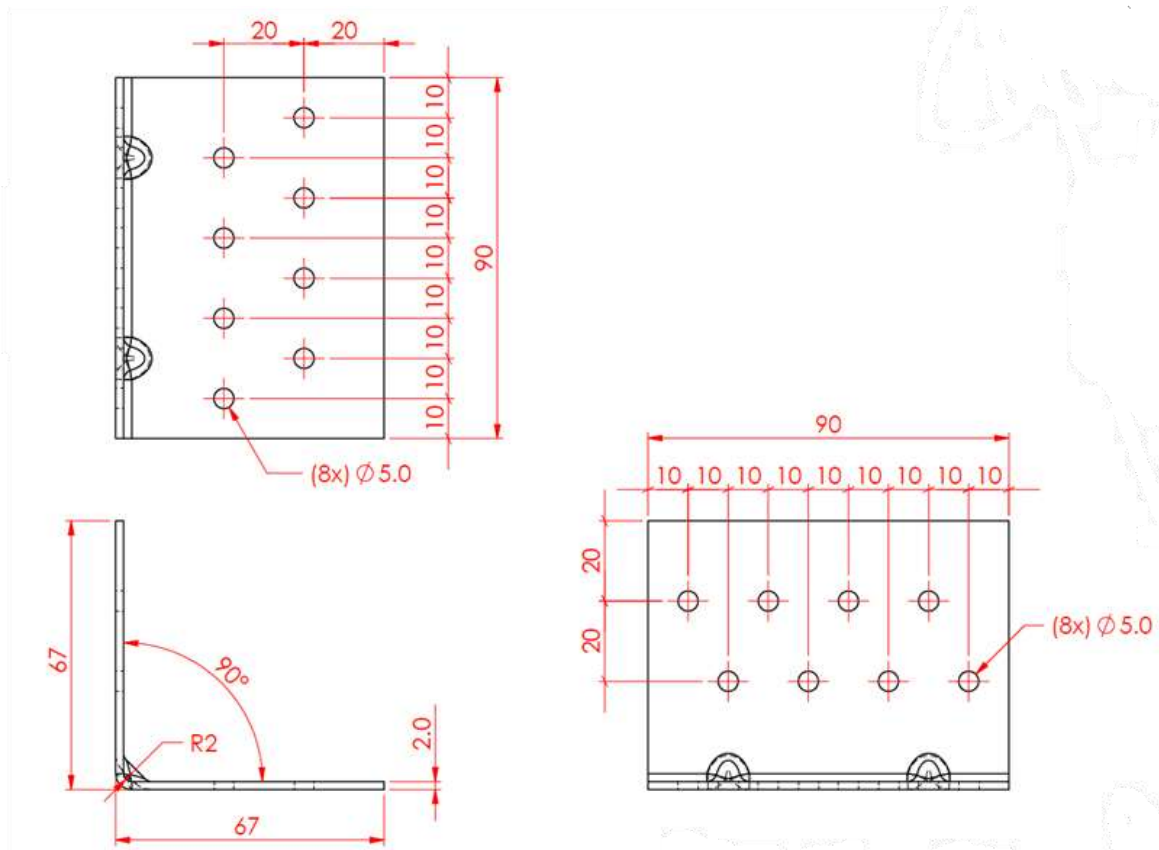


65x65x55x2,5 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908184

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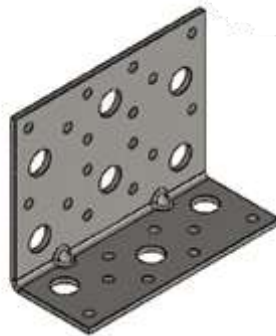
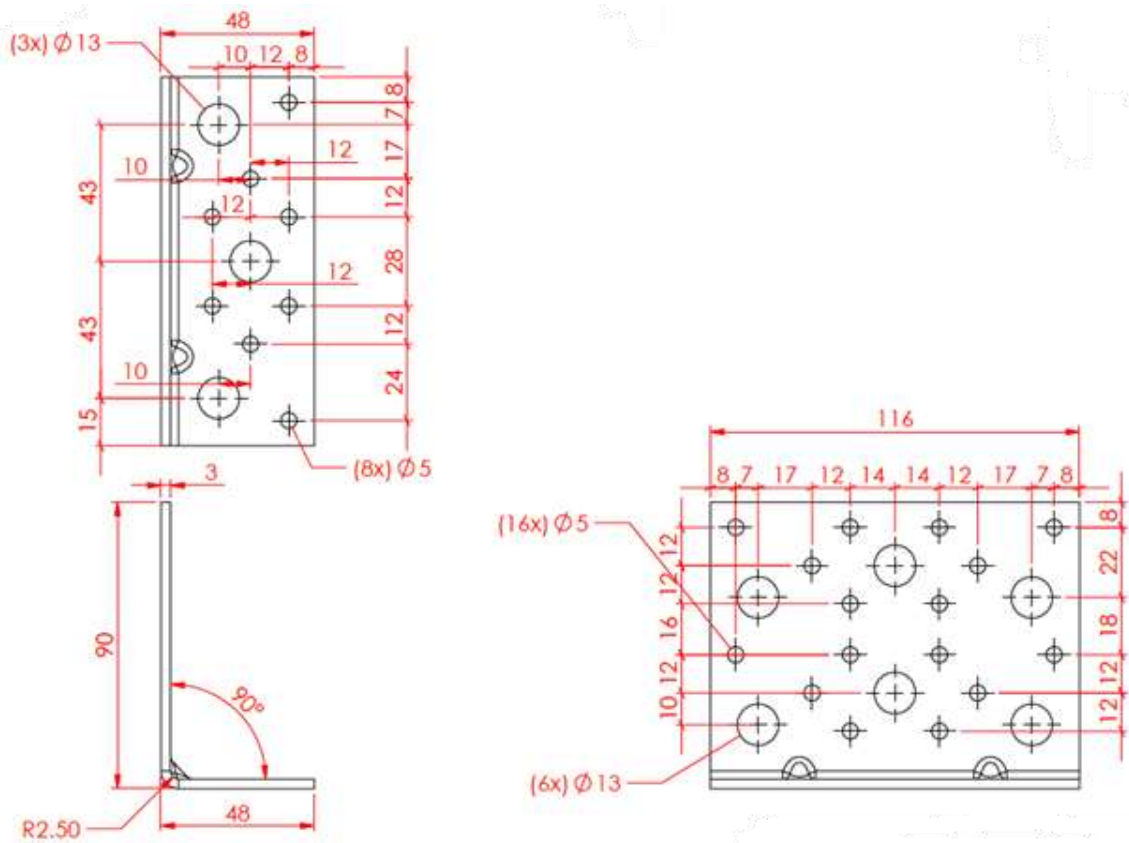


67x67x90x2 mm

NOVIPRO WOOD CONNECTORS

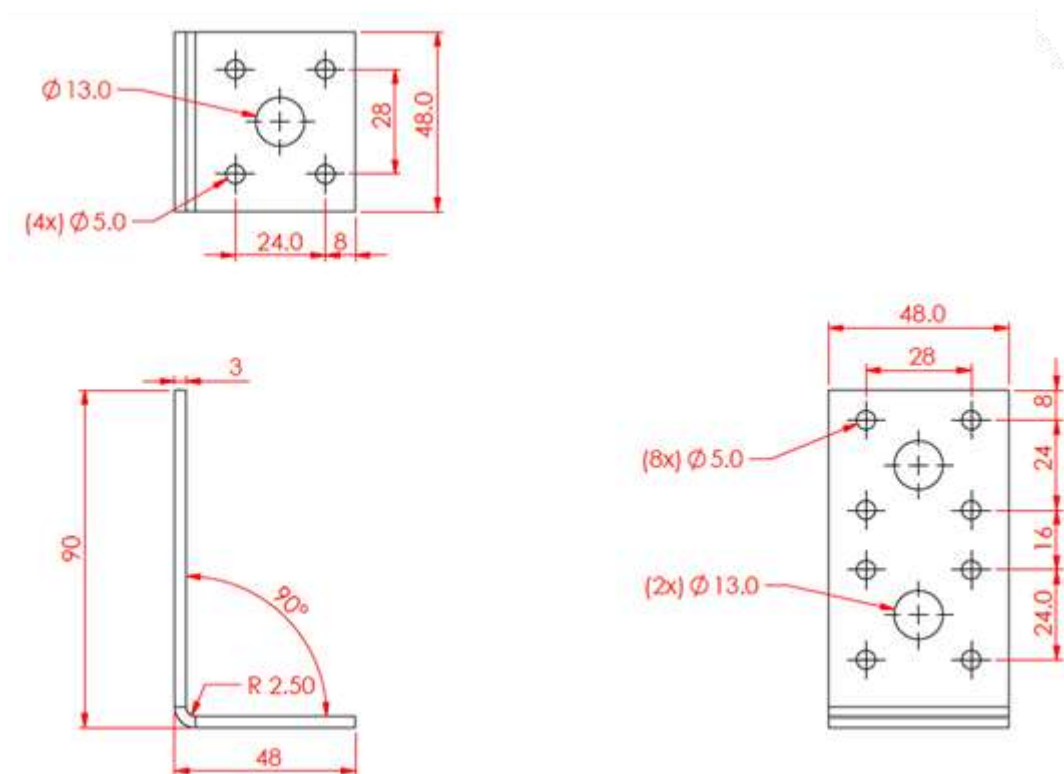
Three-dimensional nailing plates 101908185

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90x48x116x3 mm

NOVIPRO WOOD CONNECTORS	Annex A26 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates 101908190	

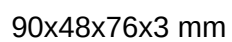


90x48x48x3 mm

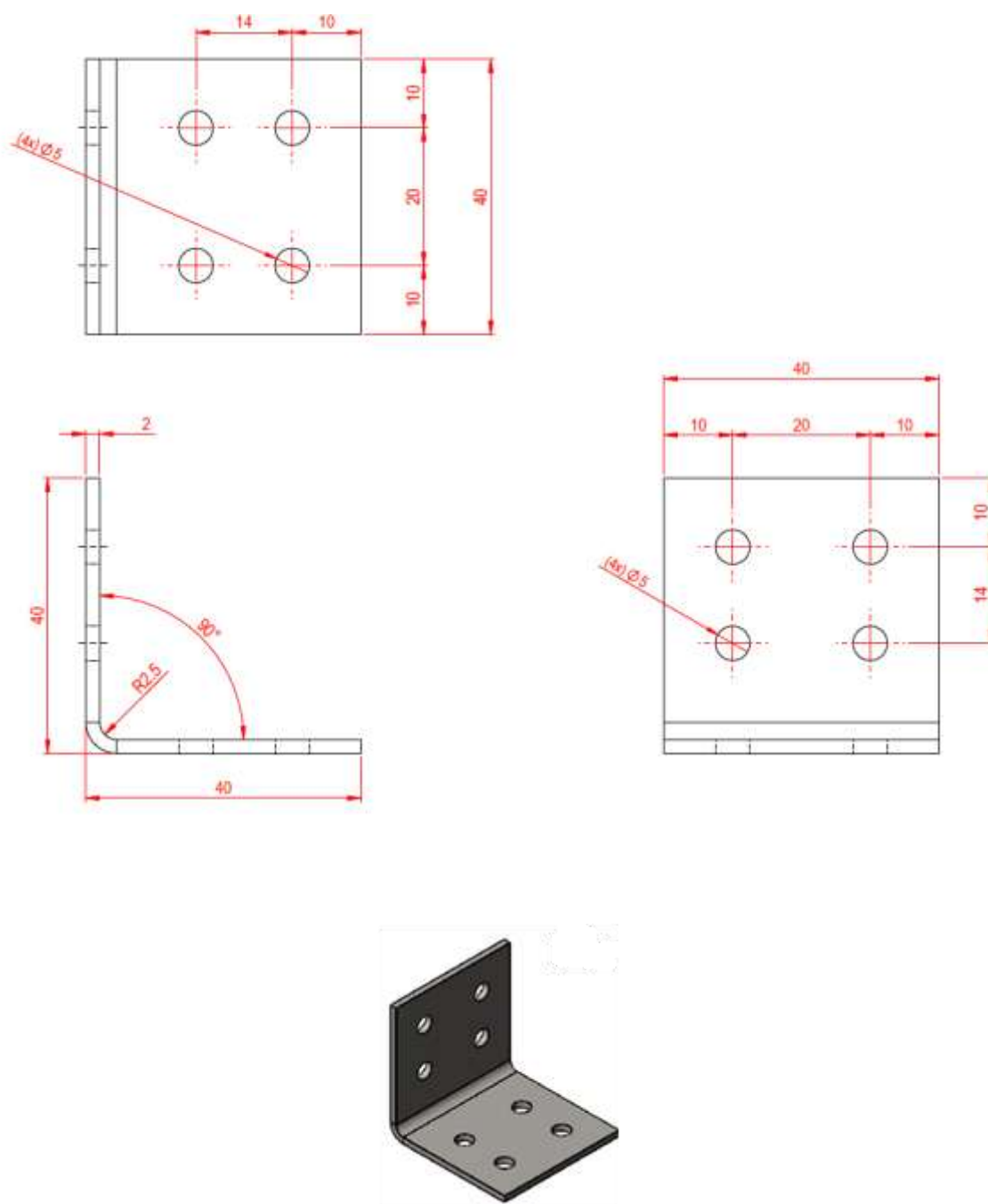
NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908191

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NOVIPRO WOOD CONNECTORS	Annex A28 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates 101908192	

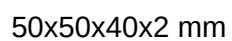


40x40x40x2 mm

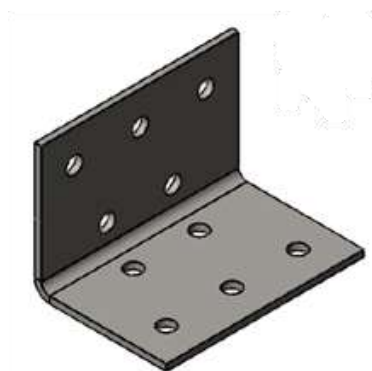
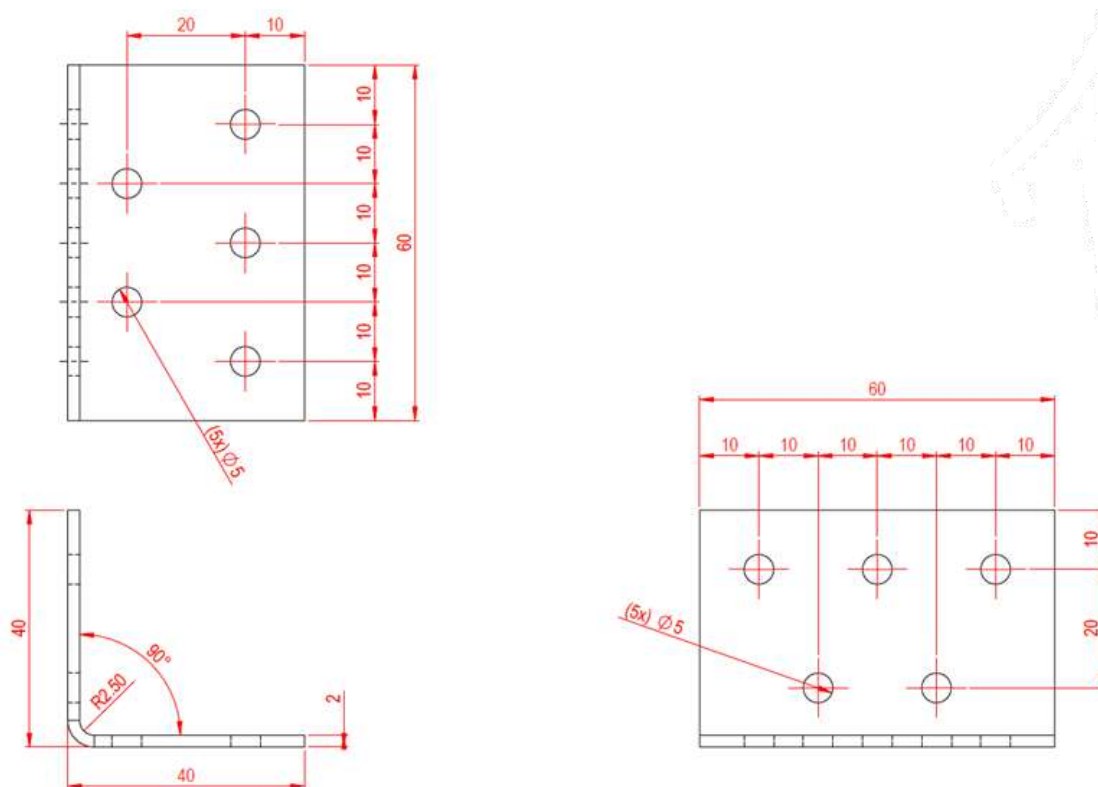
NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-AB-029

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NOVIPRO WOOD CONNECTORS	Annex A30 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates KIWC-AB-030	

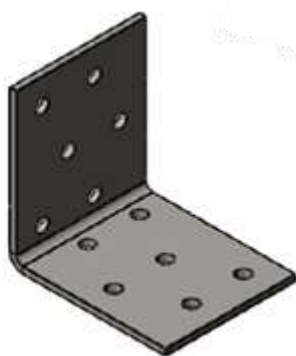
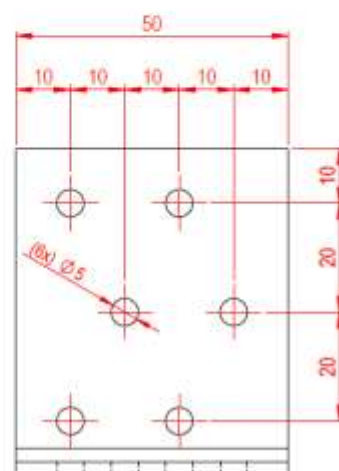
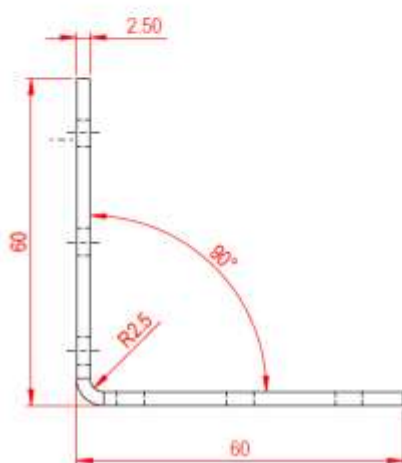
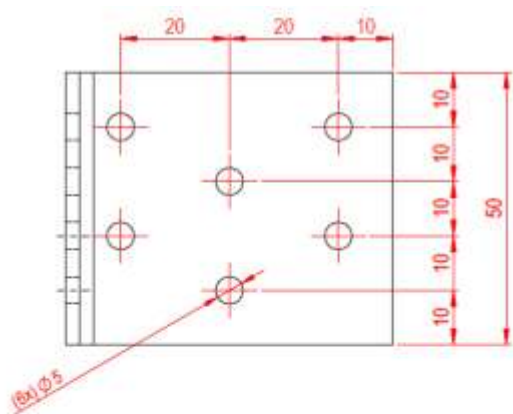


40x40x60x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-AB-031

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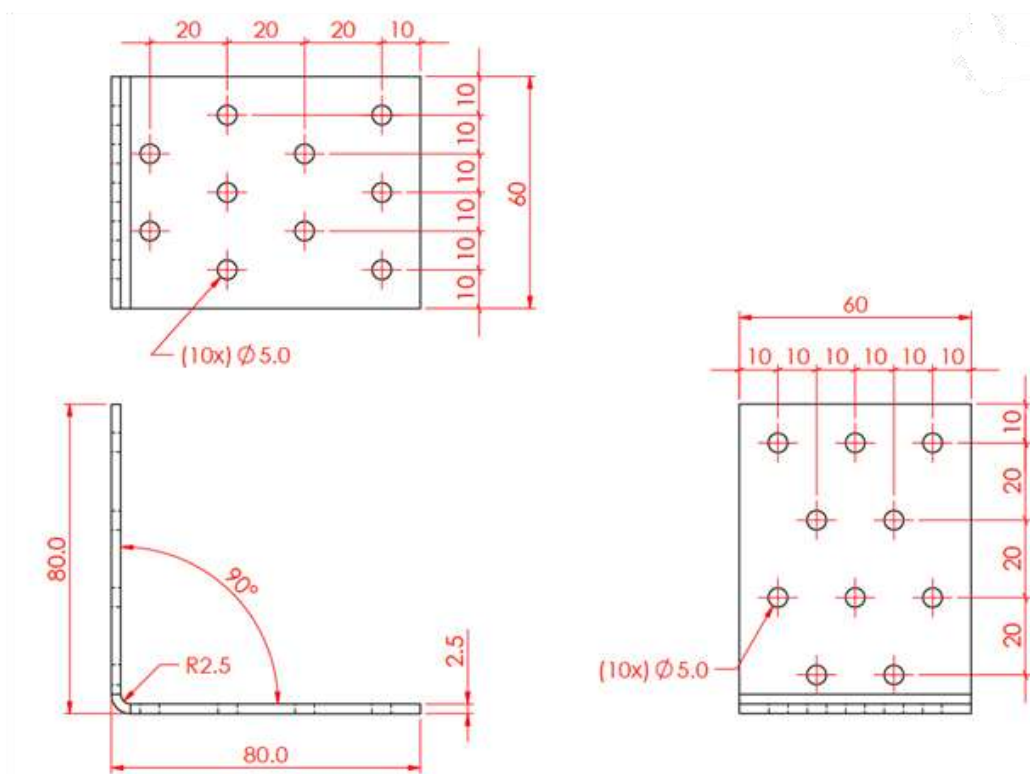


60x60x50x2,5 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-AB-032

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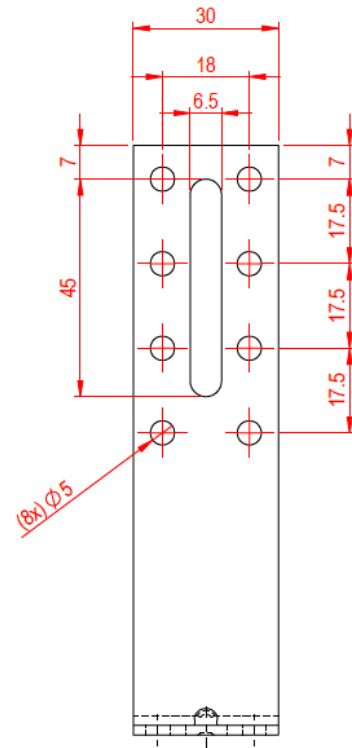
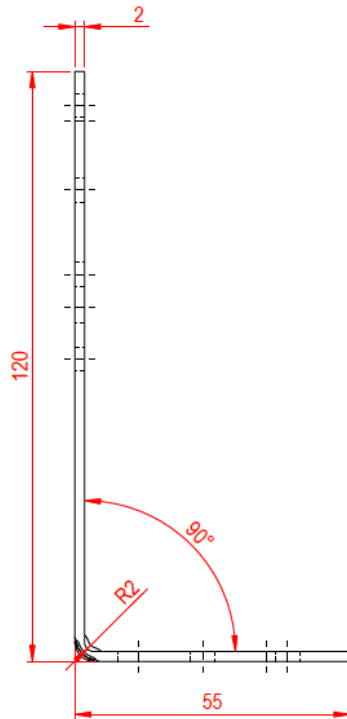
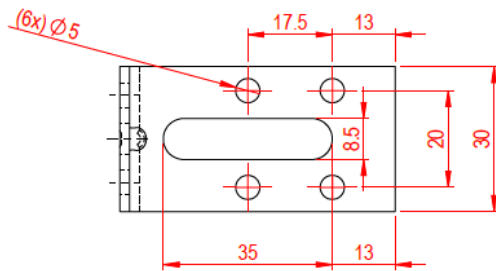


80x80x60x2,5 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-AB-033

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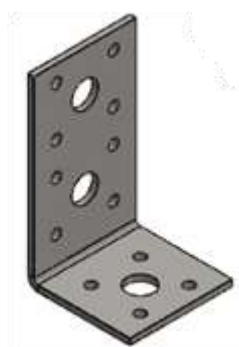
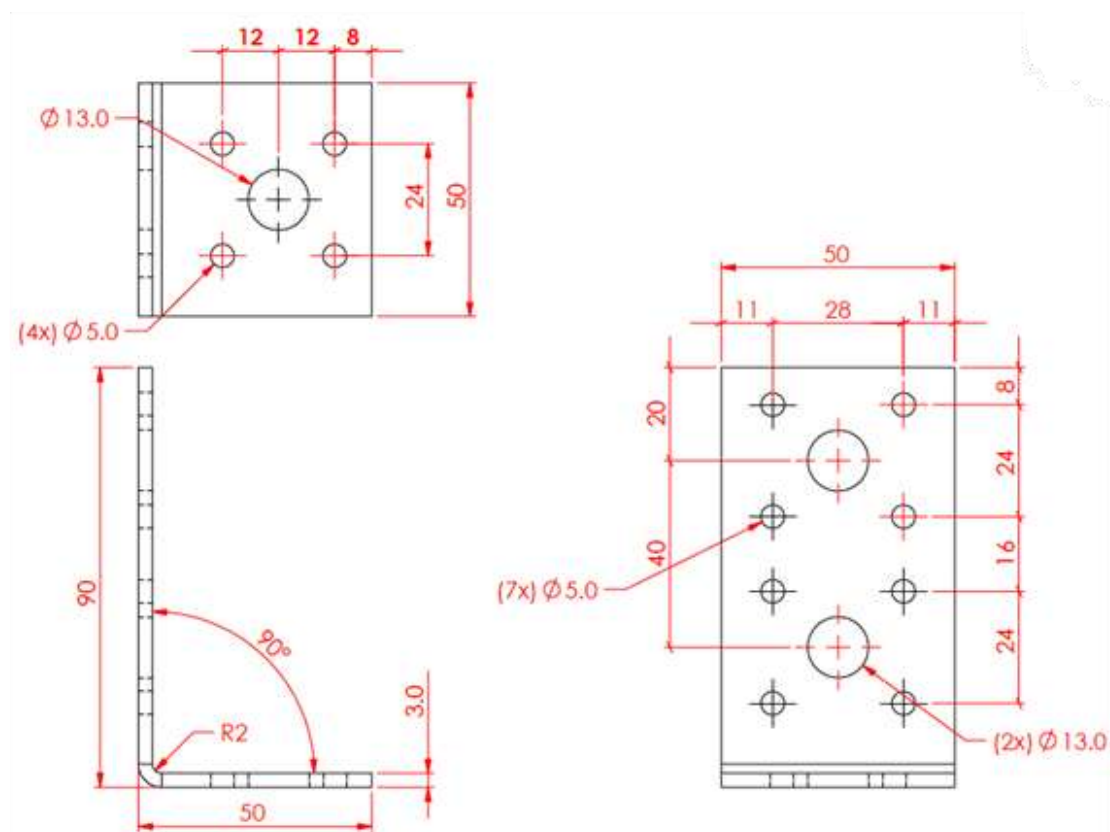


120x55x30x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-AB-034

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of European
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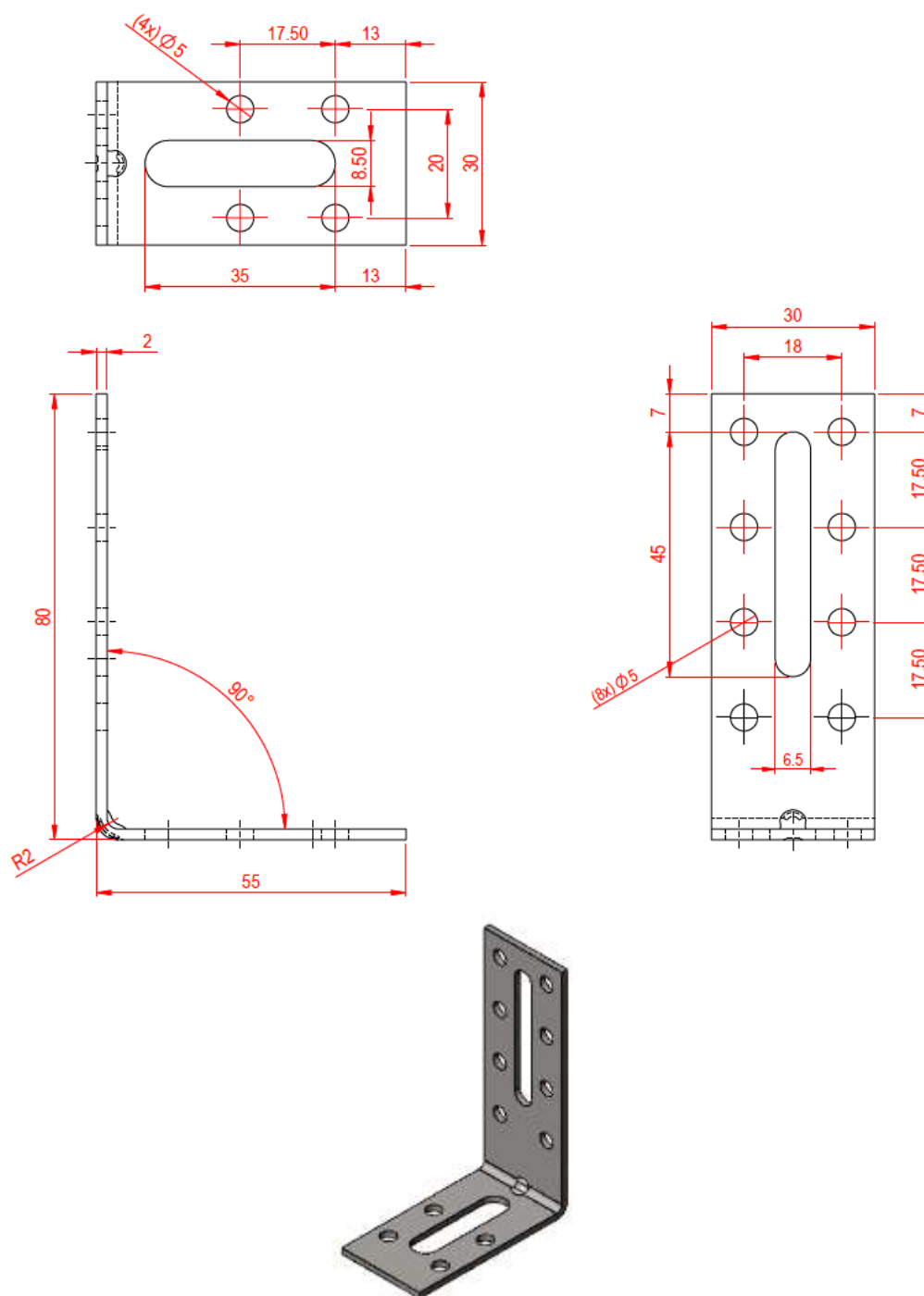


90x50x50x3 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-AB-035

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of European
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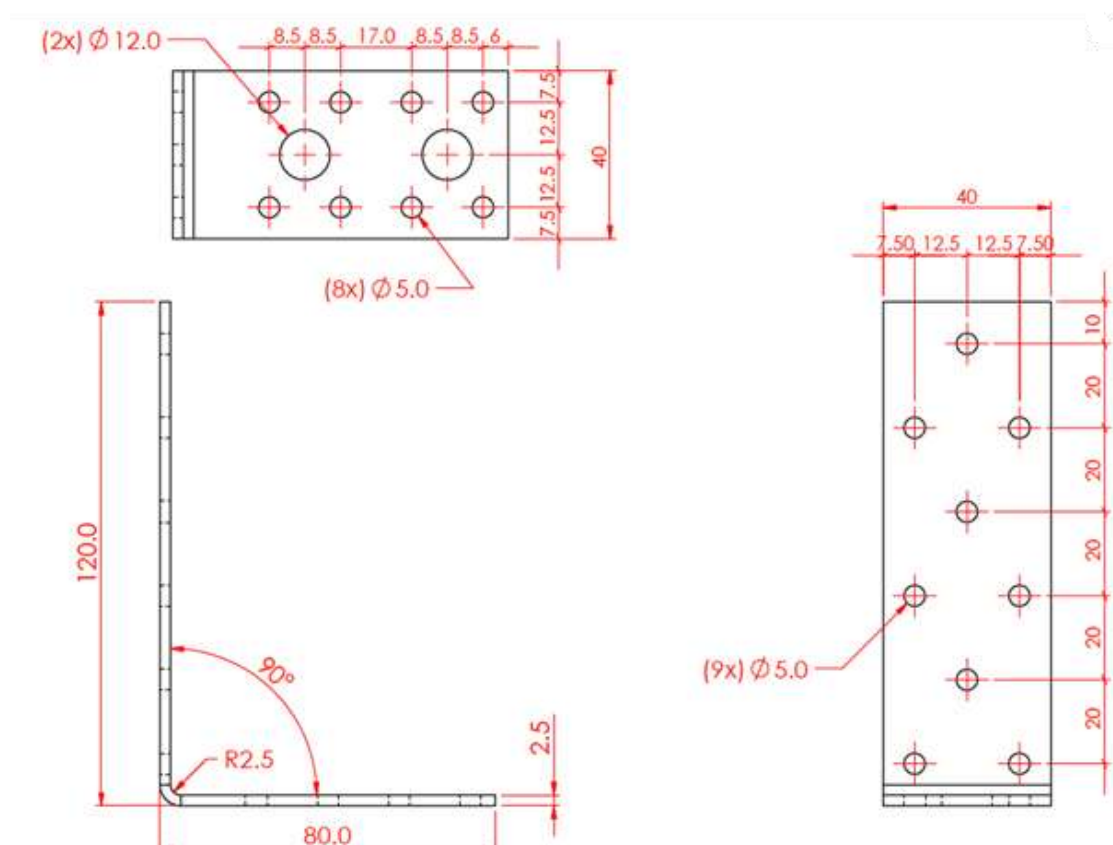


80x55x30x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-AB-036

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of European
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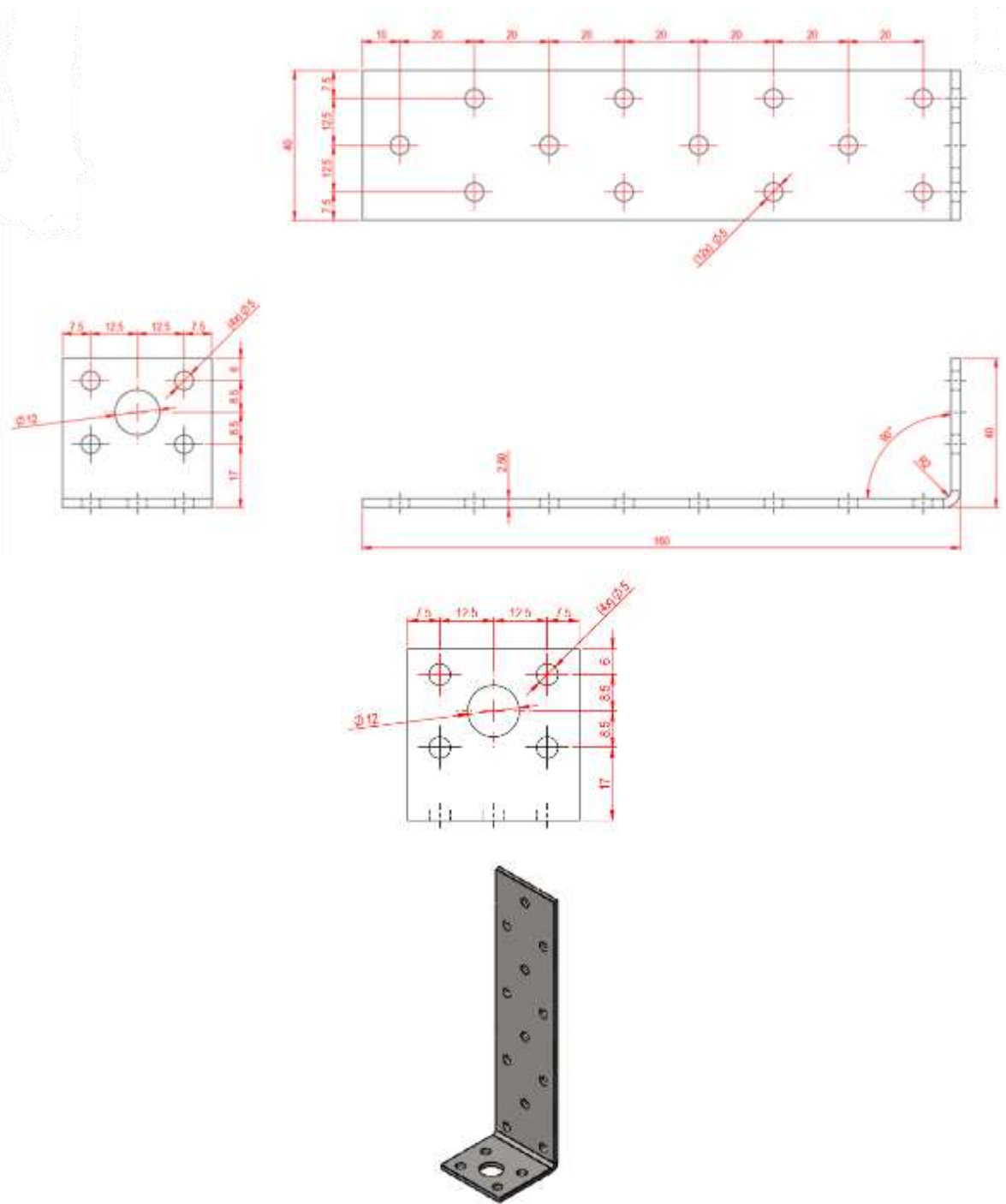


120x80x40x2,5 mm

NOVIPRO WOOD CONNECTORS

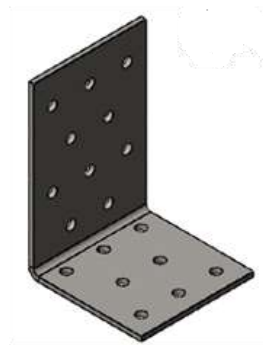
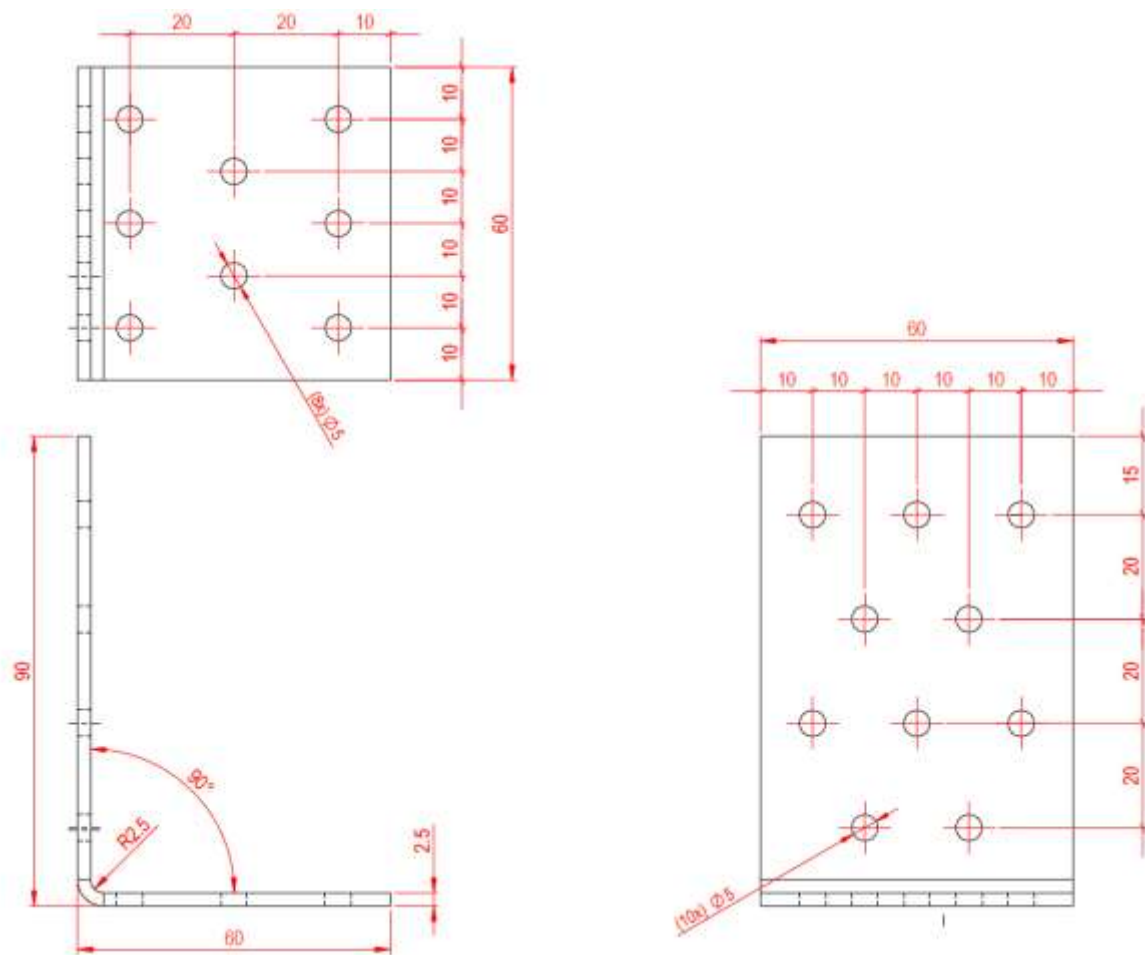
Three-dimensional nailing plates KIWC-AB-037

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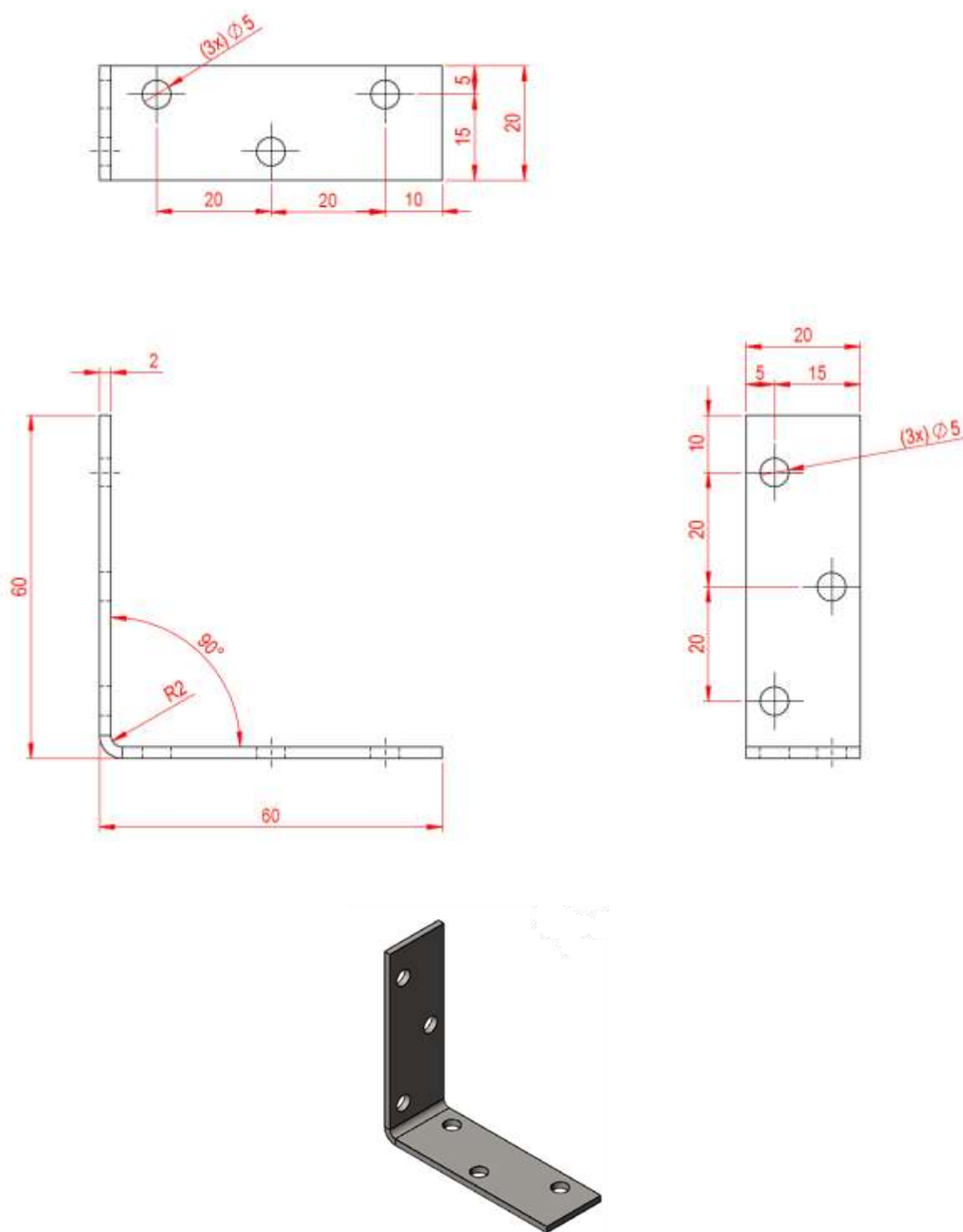
160x40x40x2,5 mm

NOVIPRO WOOD CONNECTORS	Annex A38 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates KIWC-AB-038	



90x60x60x2,5 mm

NOVIPRO WOOD CONNECTORS	Annex A39 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates KIWC-AB-039	

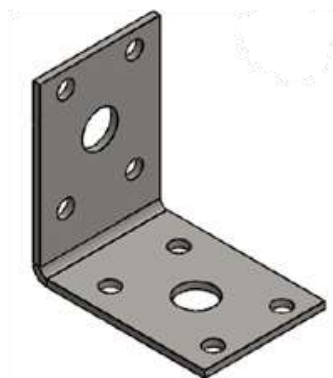
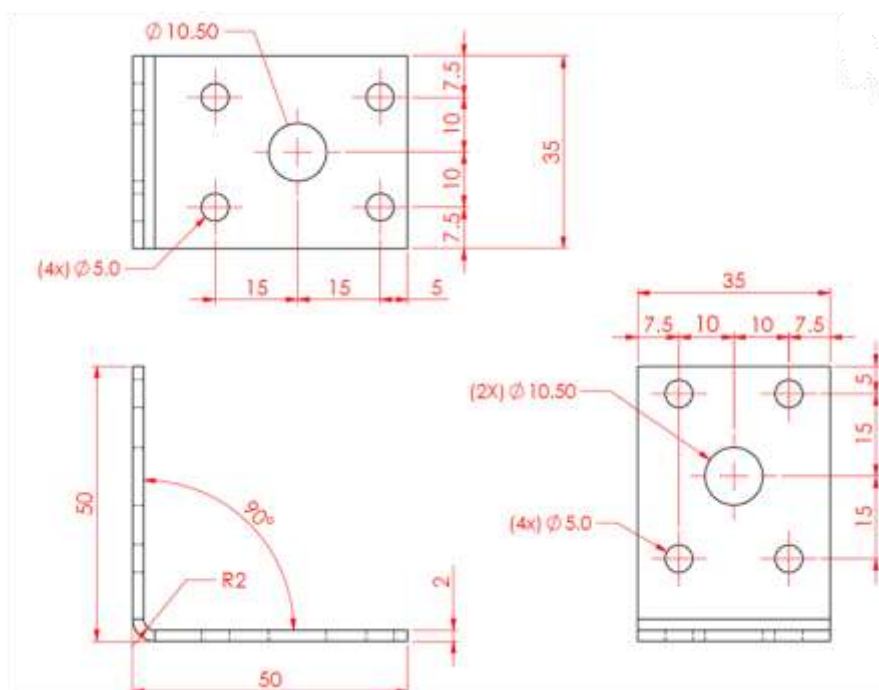


60x60x20x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-AB-040

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of European
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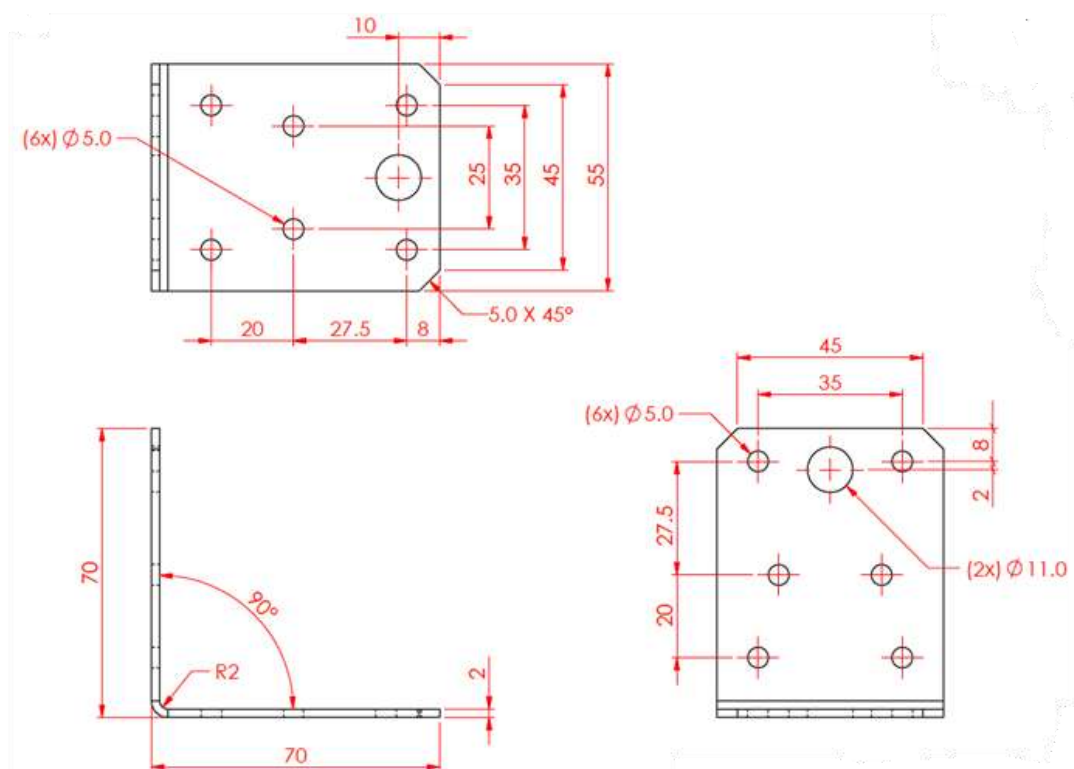


50x50x35x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-AB-041

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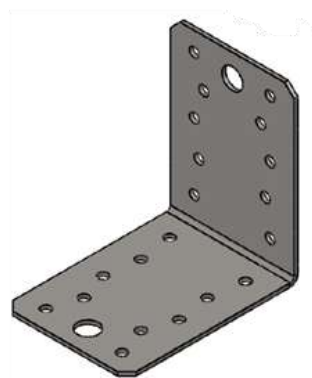
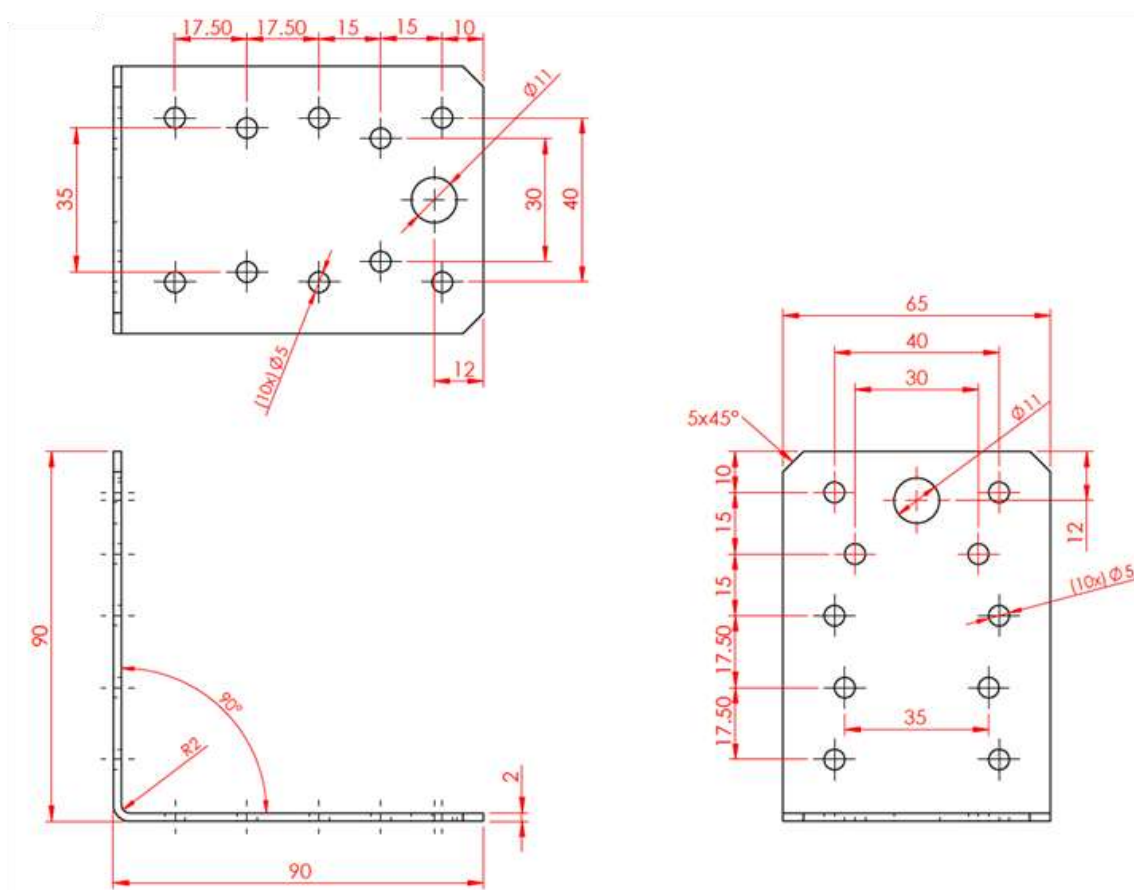


70x70x55x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-AB-042

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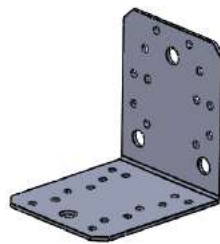
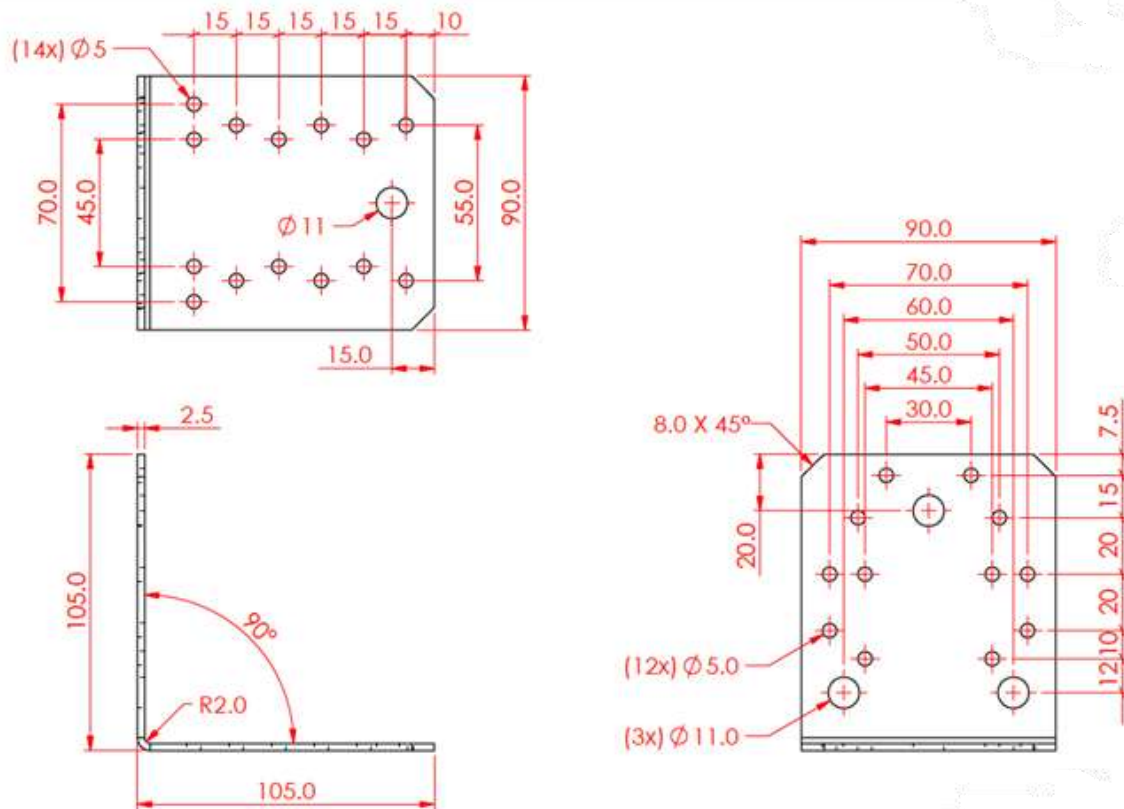


90x90x65x2 mm

NOVIPRO WOOD CONNECTORS

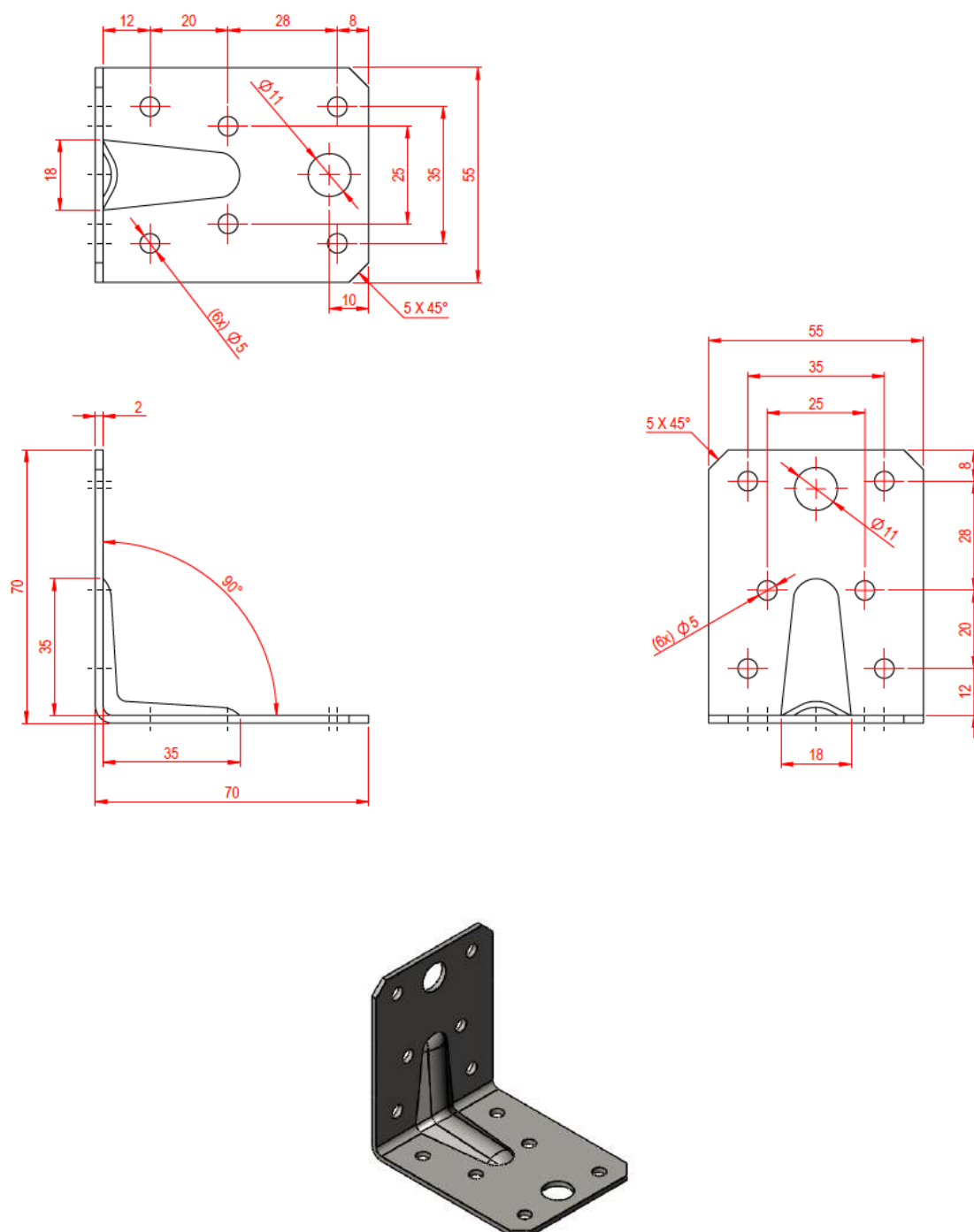
Three-dimensional nailing plates KIWC-AB-043

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105x105x90x2,5 mm

NOVIPRO WOOD CONNECTORS	Annex A44 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates KIWC-AB-044	



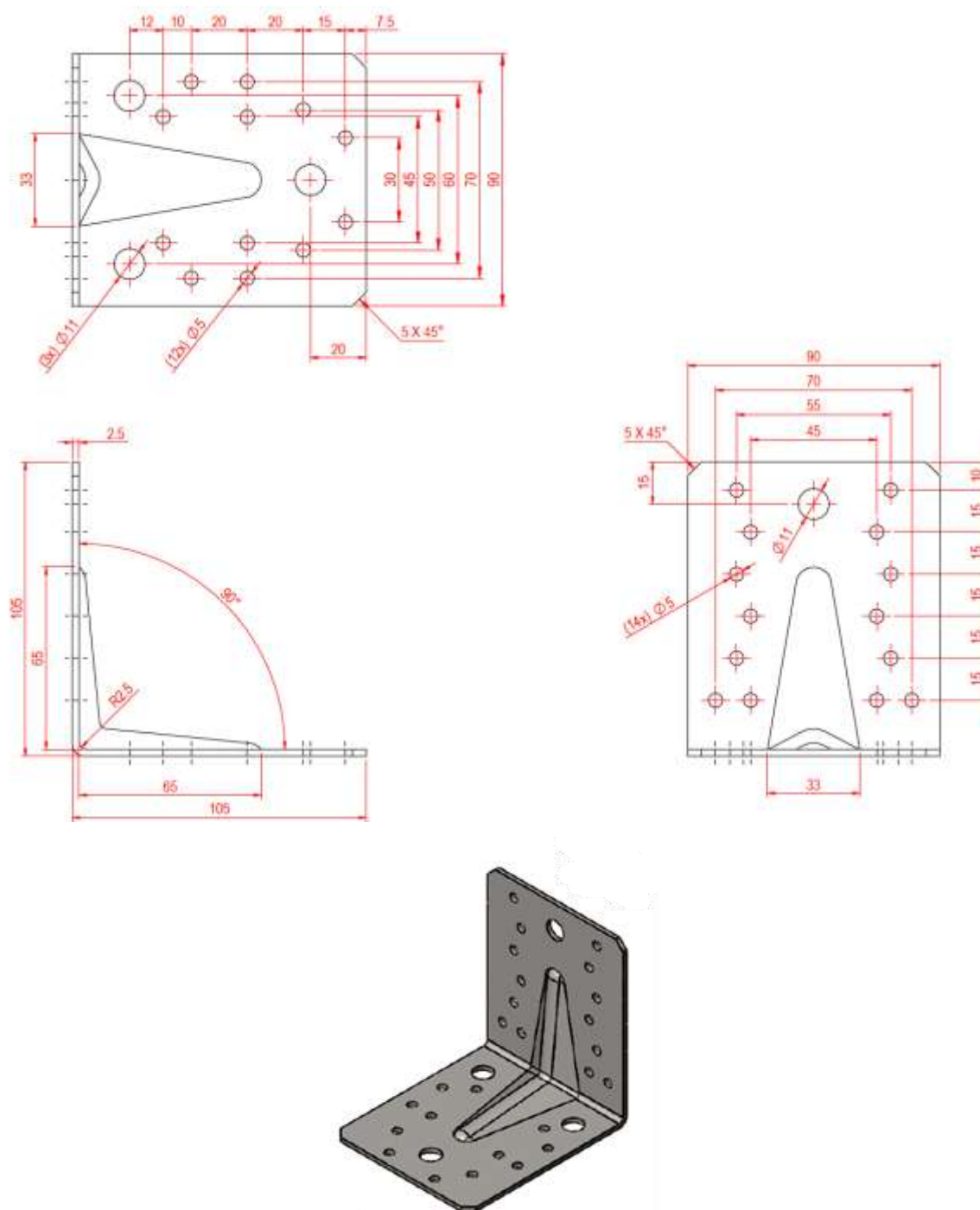
70x70x55x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-AB-045

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of European
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90x90x65x2 mm	
NOVIPRO WOOD CONNECTORS	Annex A46 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates KIWC-AB-046	

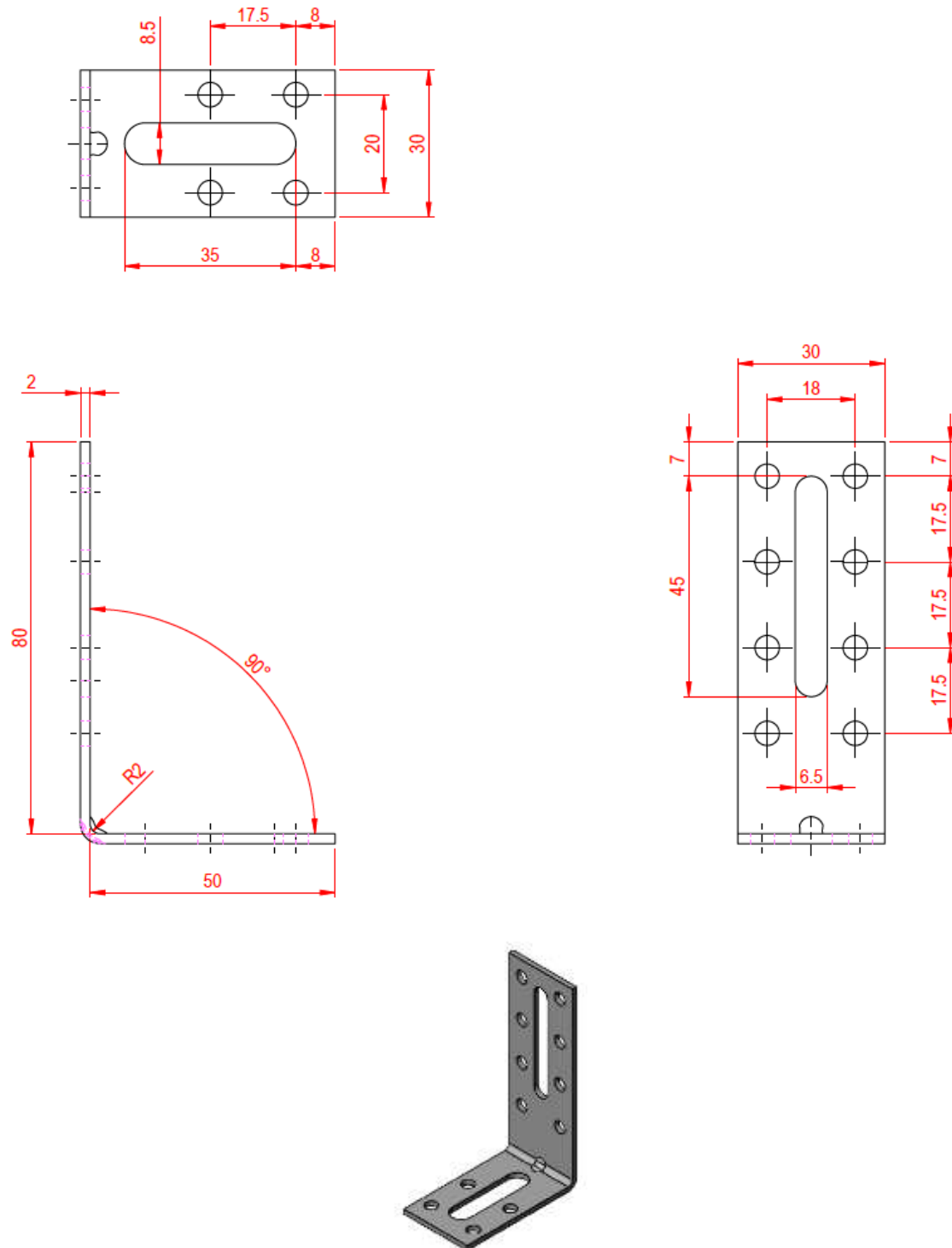


105x105x90x2,5 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-AB-047

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of European
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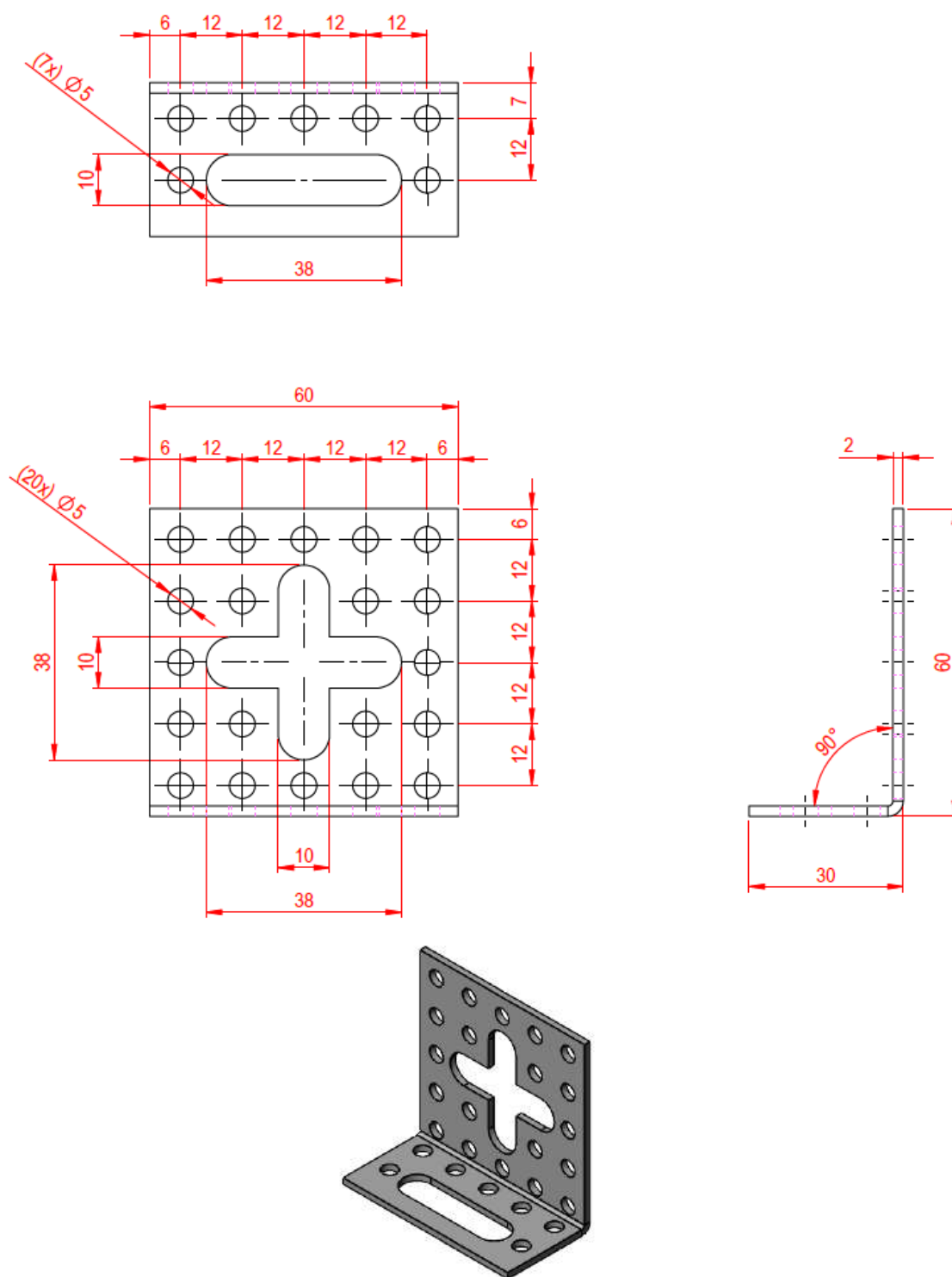


80x50x30x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-AAB-001

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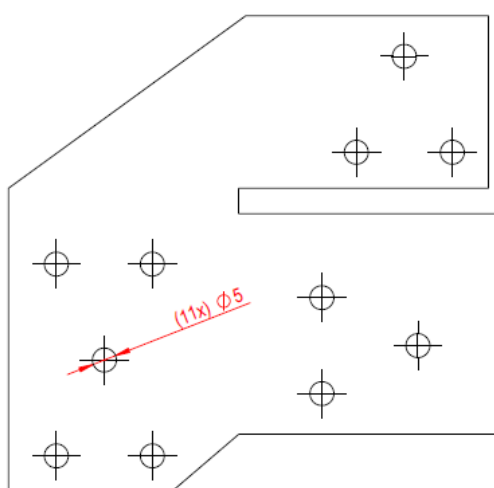
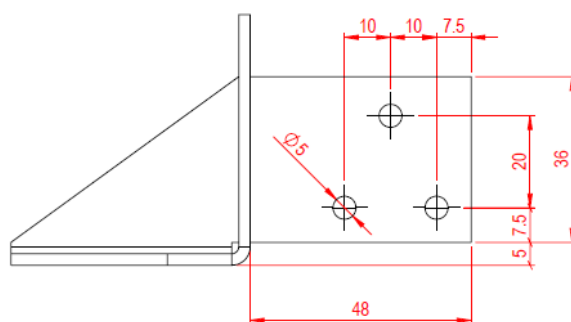
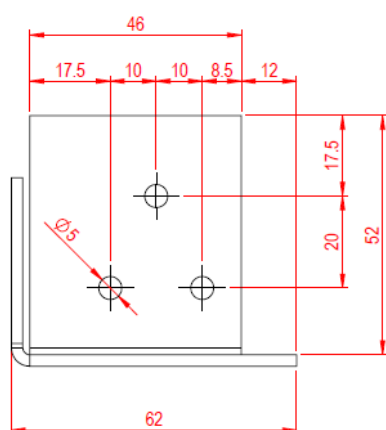
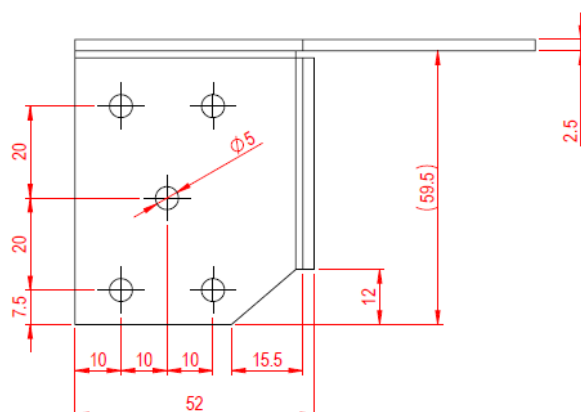
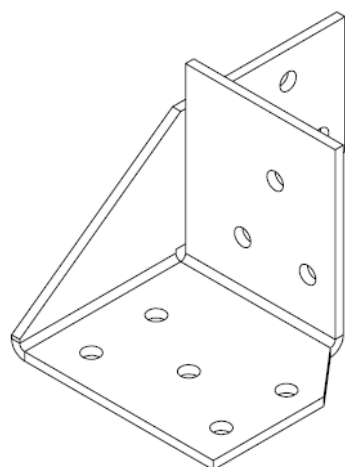


60x30x60x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-AAB-002

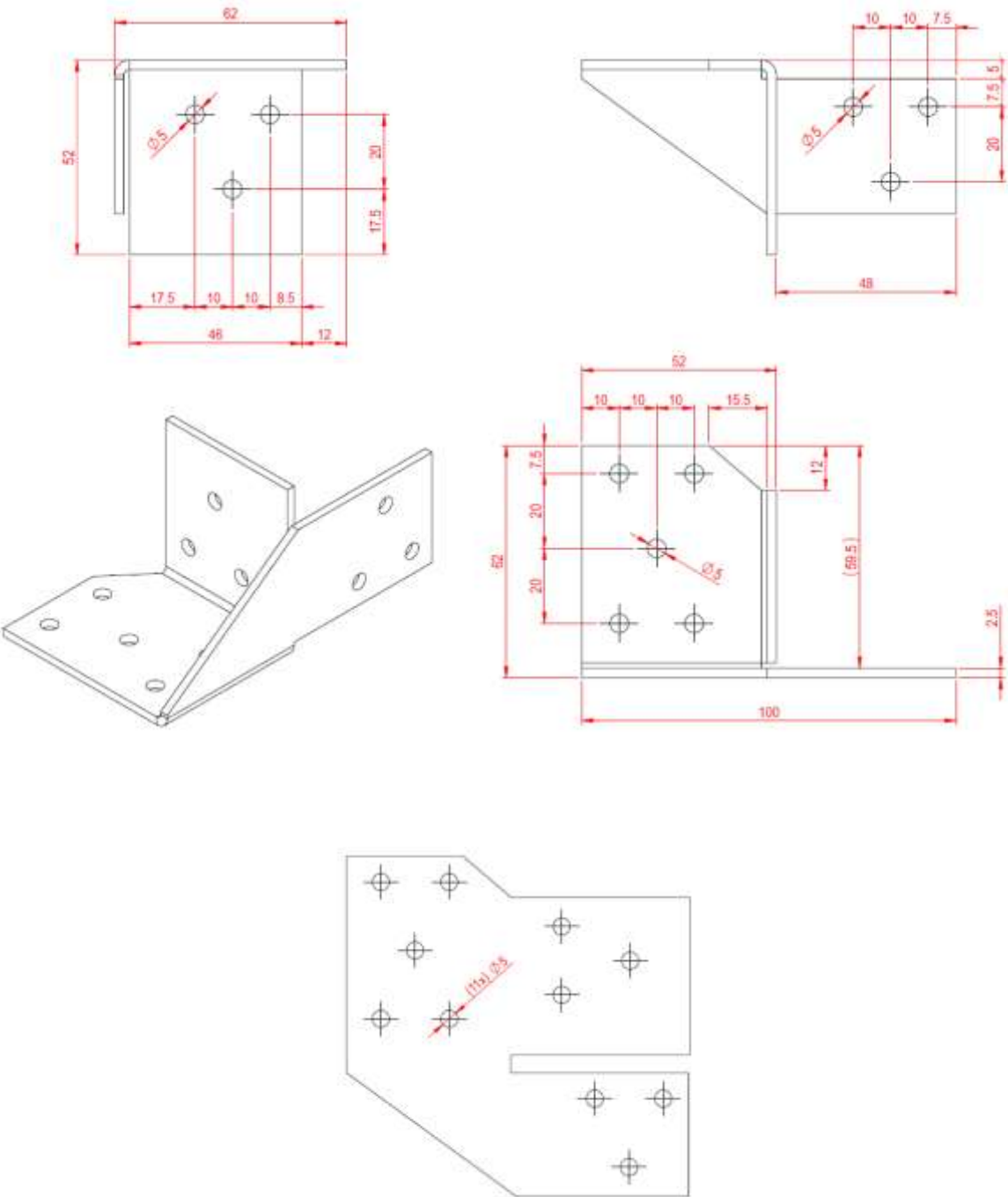
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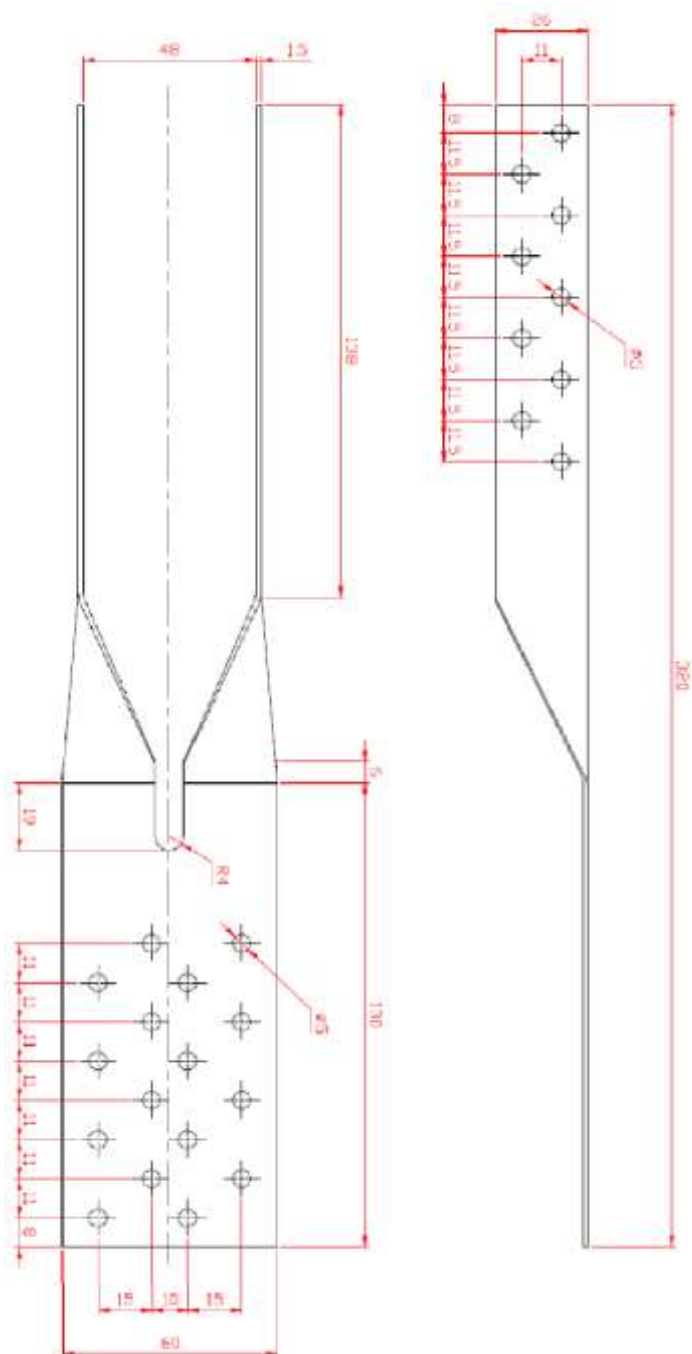


NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-UC-001

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NOVIPRO WOOD CONNECTORS	Annex A51 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates KIWC-UC-002	

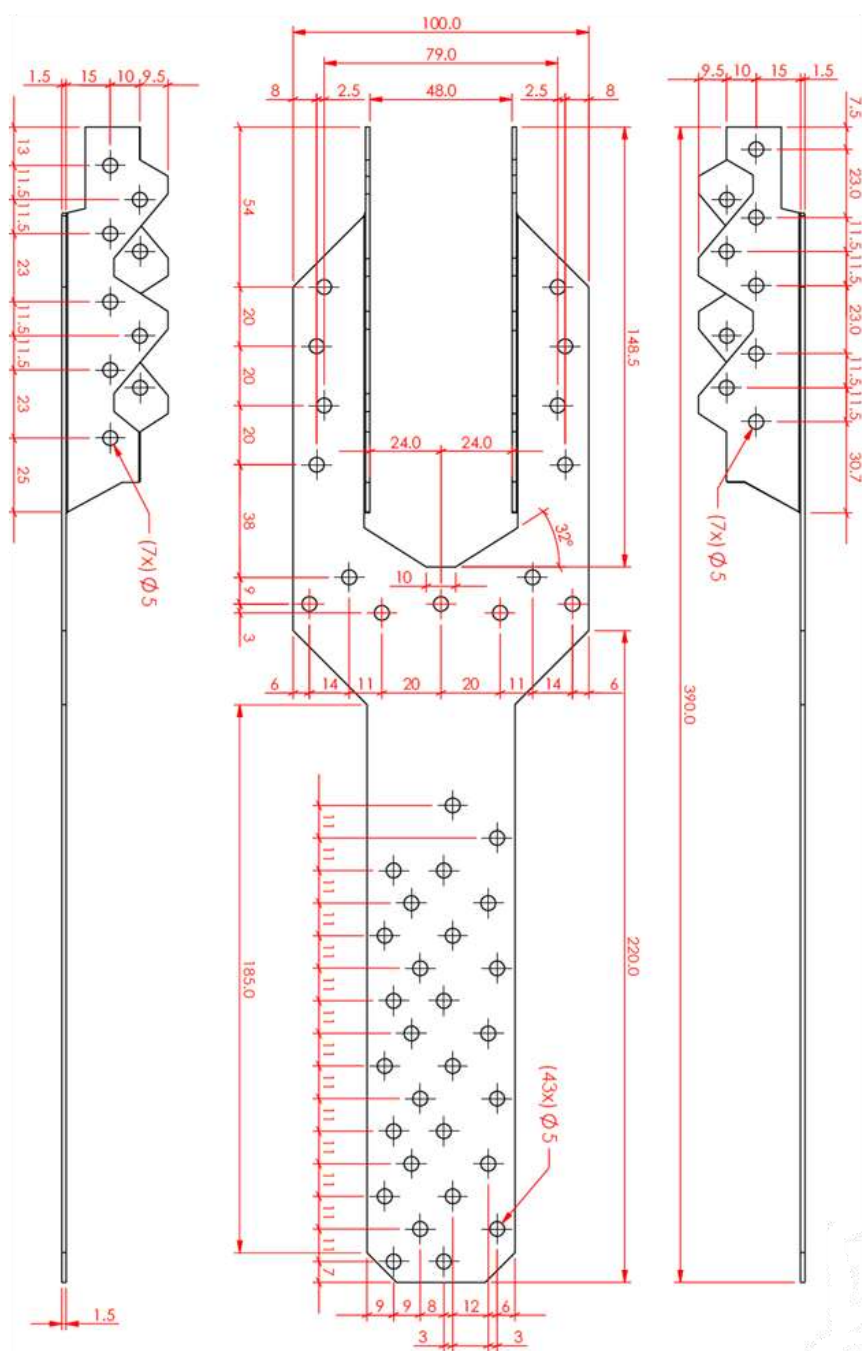


48x320x60x1,5 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908140

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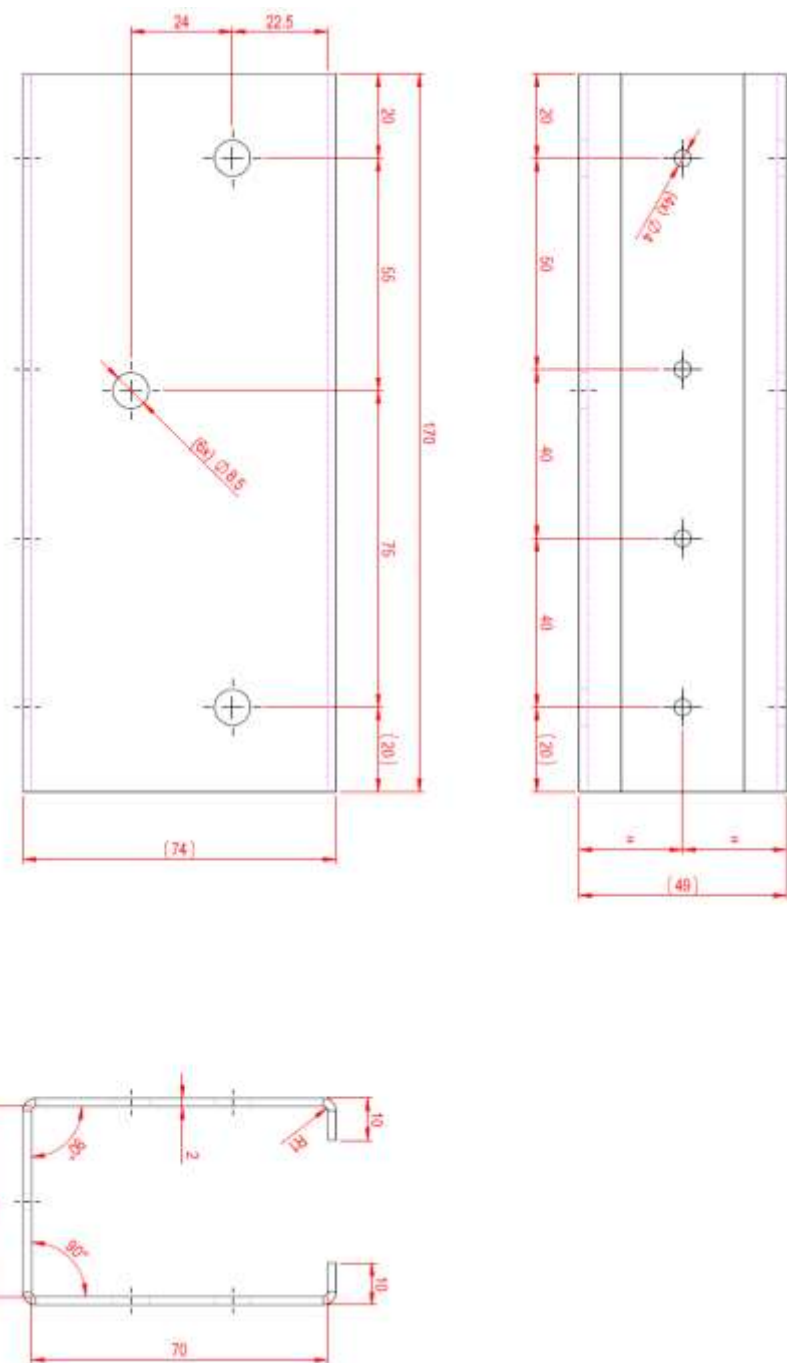


48x390x1,5 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908141

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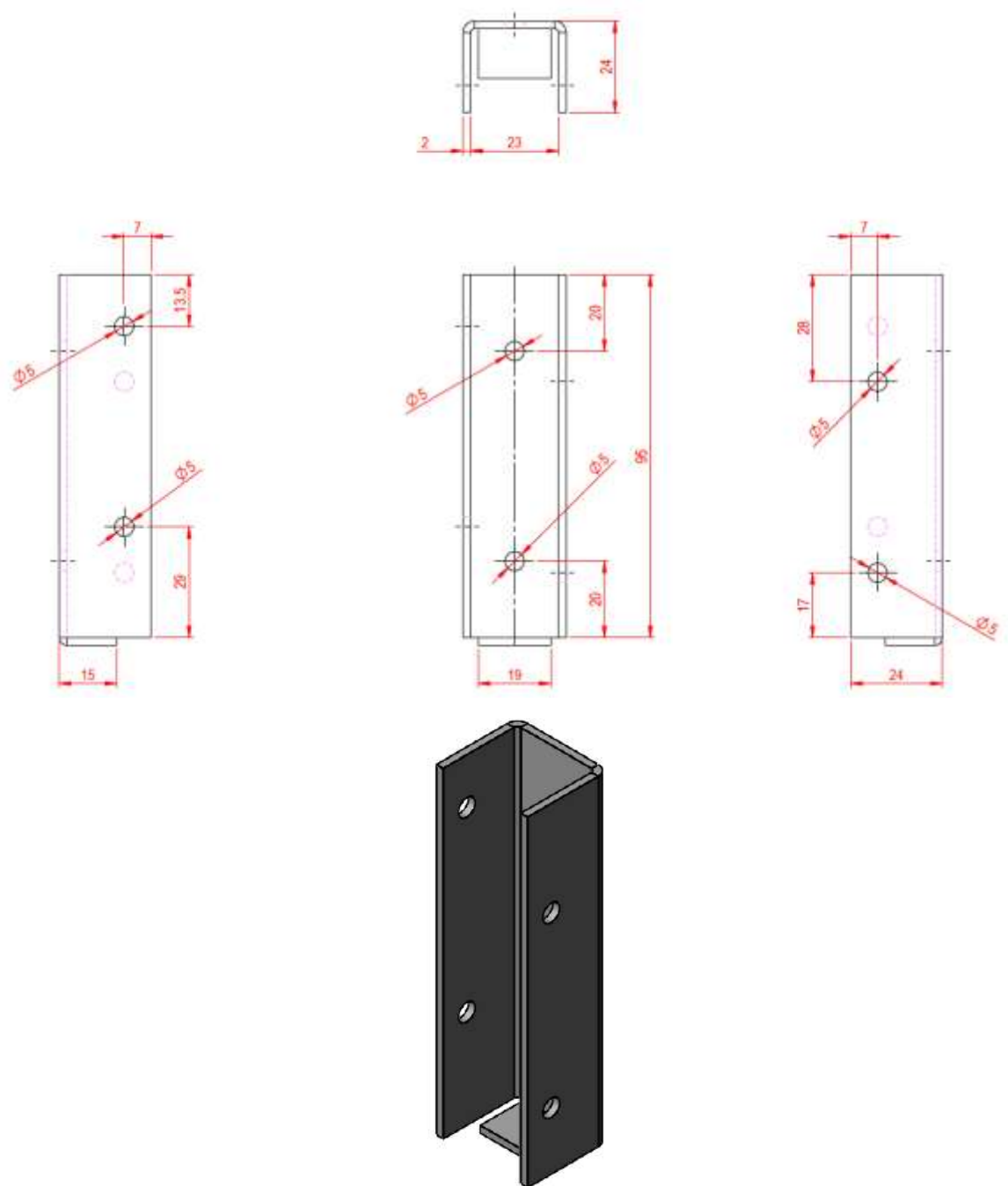


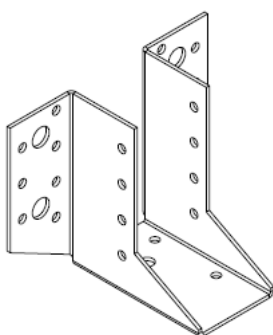
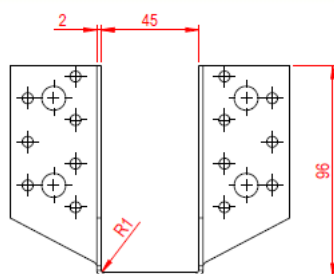
45x70x2 mm

NOVIPRO WOOD CONNECTORS

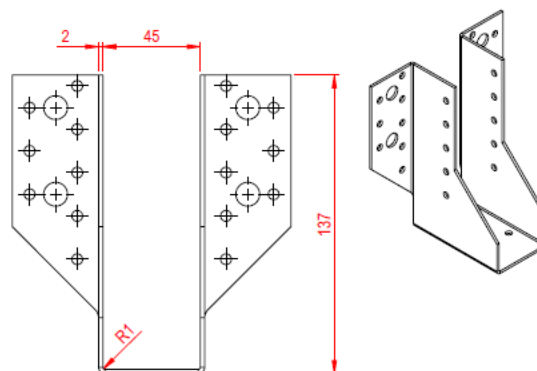
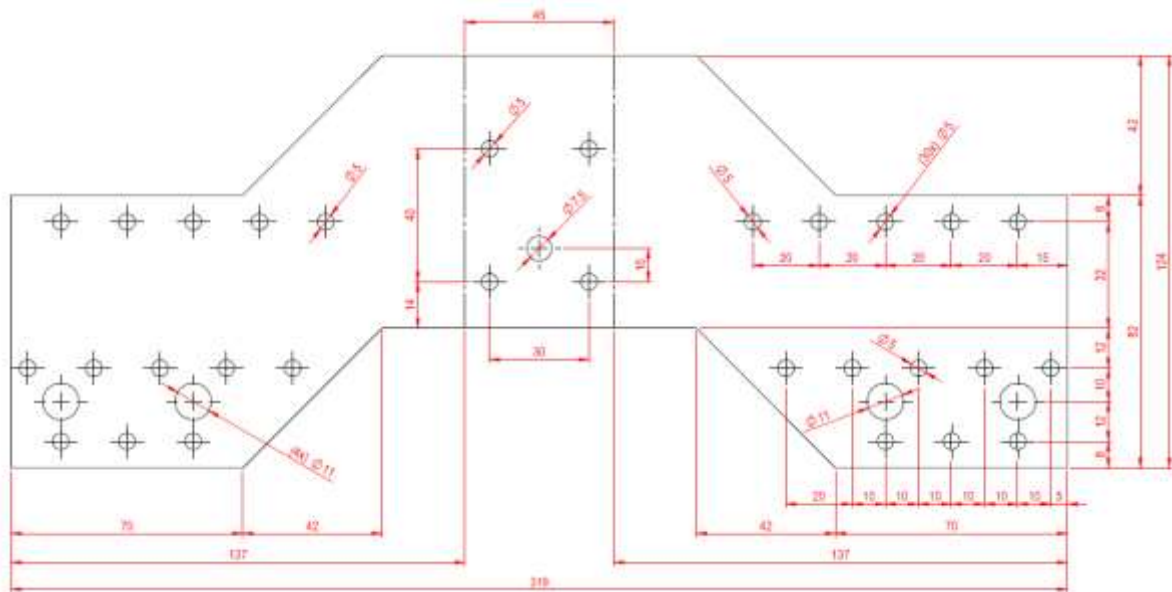
Three-dimensional nailing plates KIWC-SF-001

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 23x95x2 mm		
NOVIPRO WOOD CONNECTORS		Annex A55 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates KIWC-SF-002		



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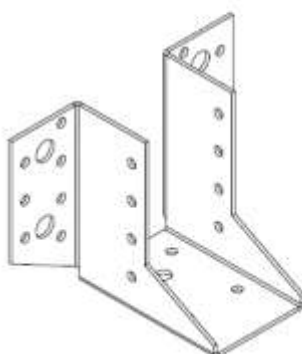
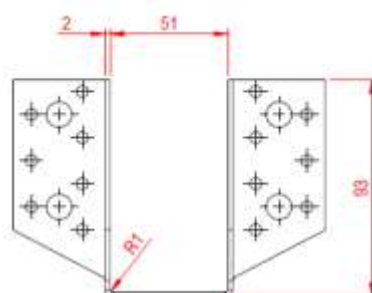
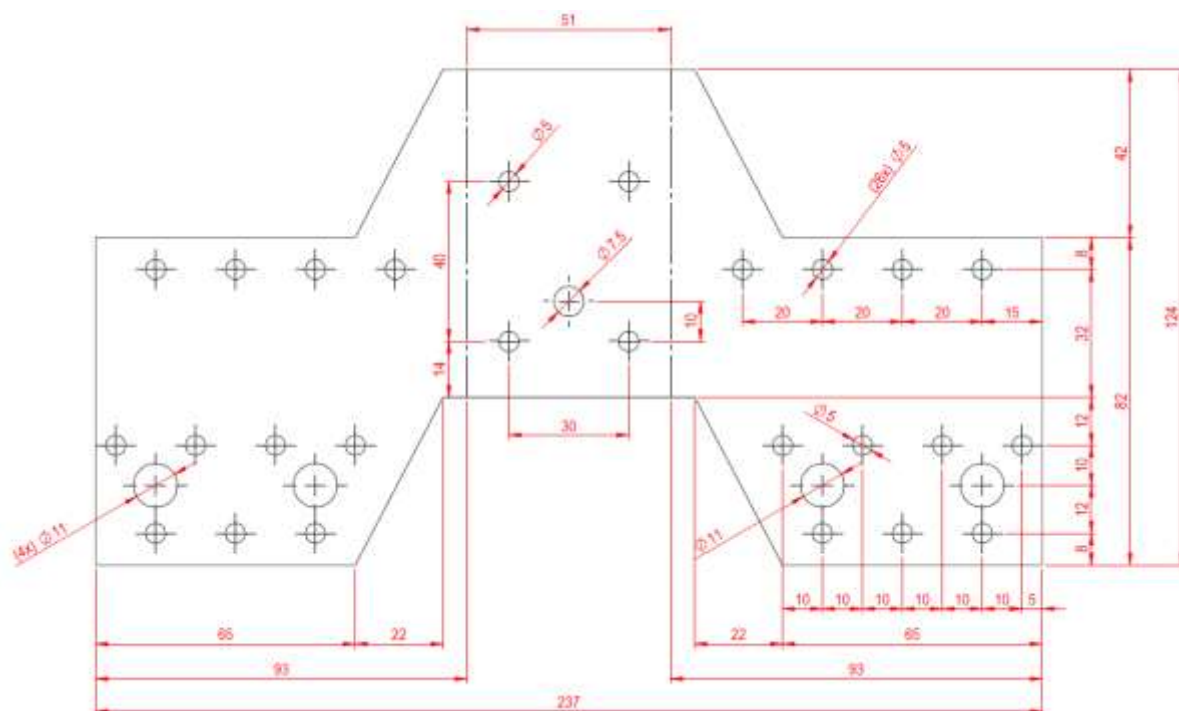


45x137x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-JH-002

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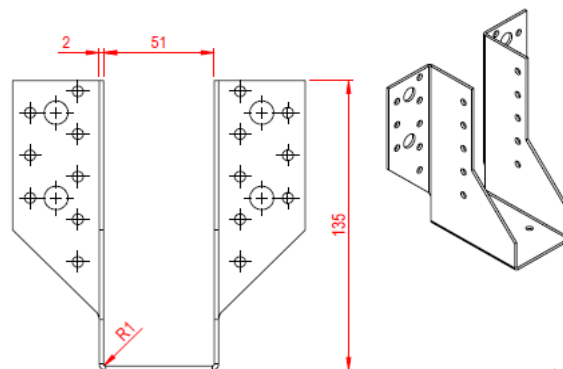
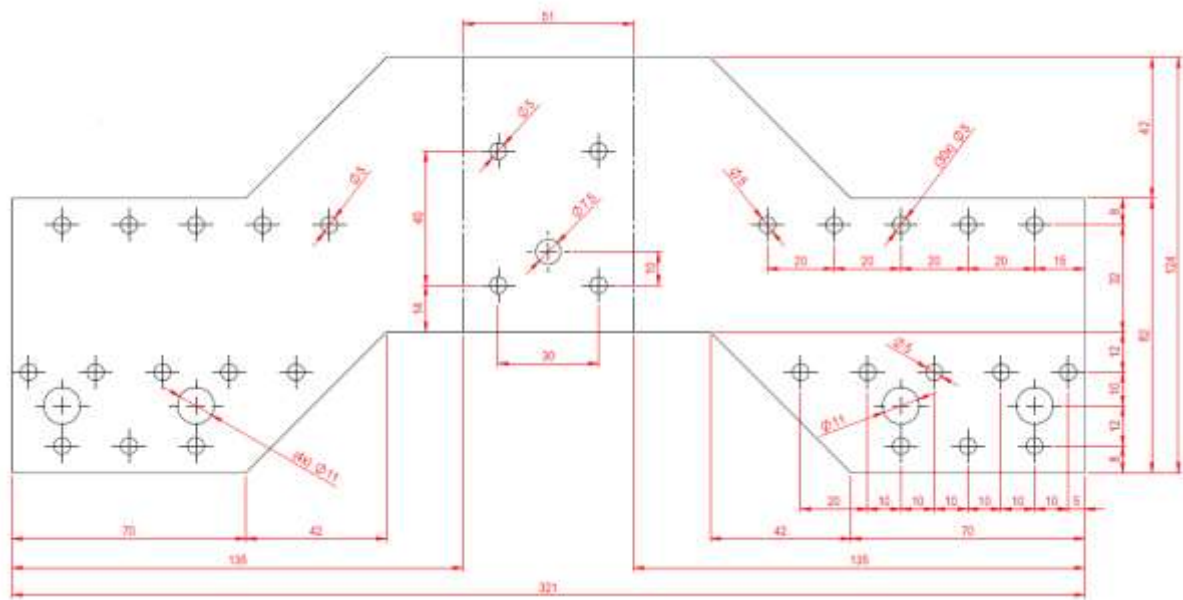


51x93x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-JH-003

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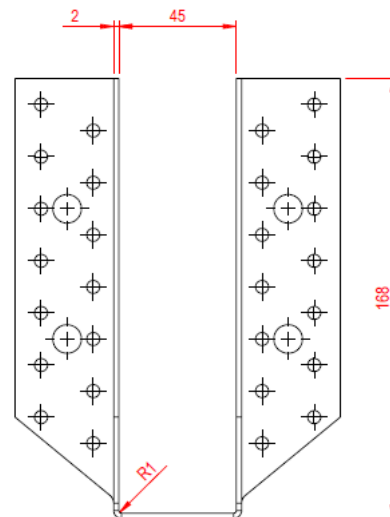
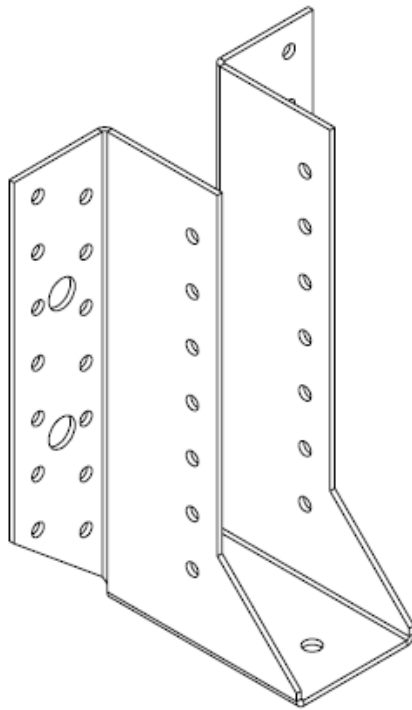
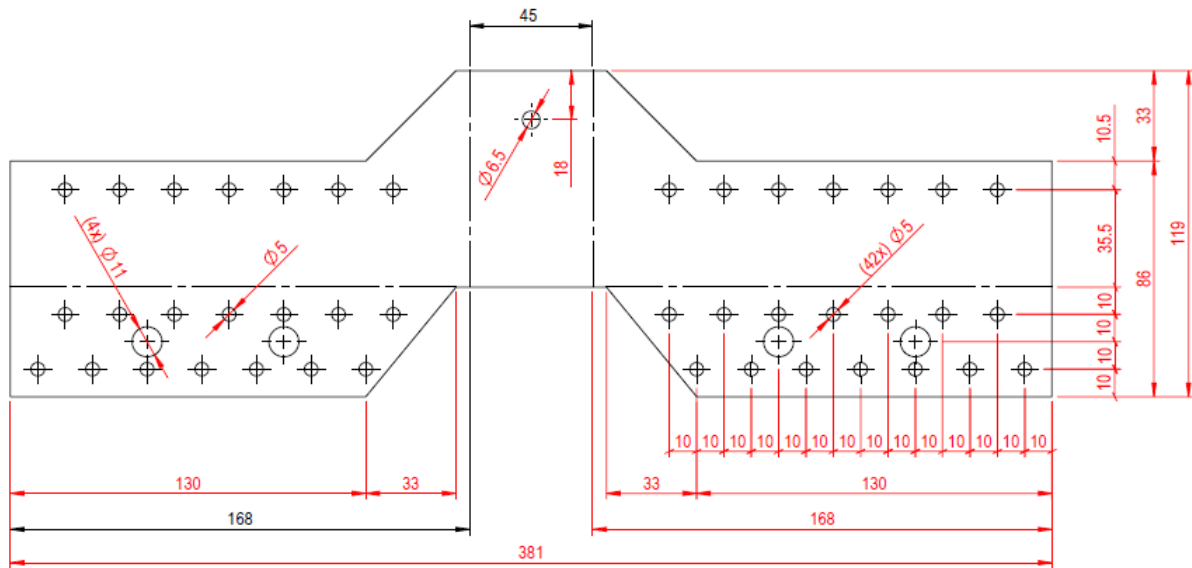


51x135x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-JH-004

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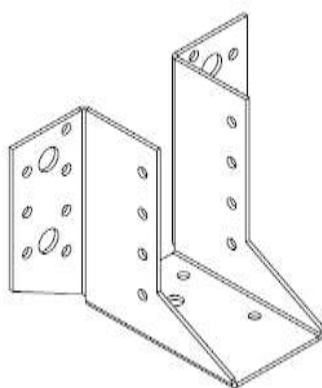
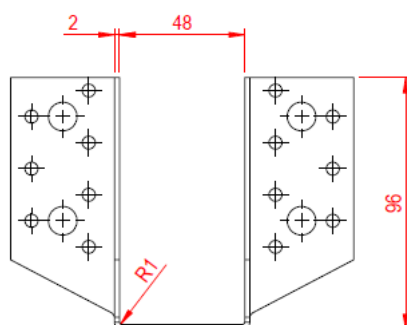
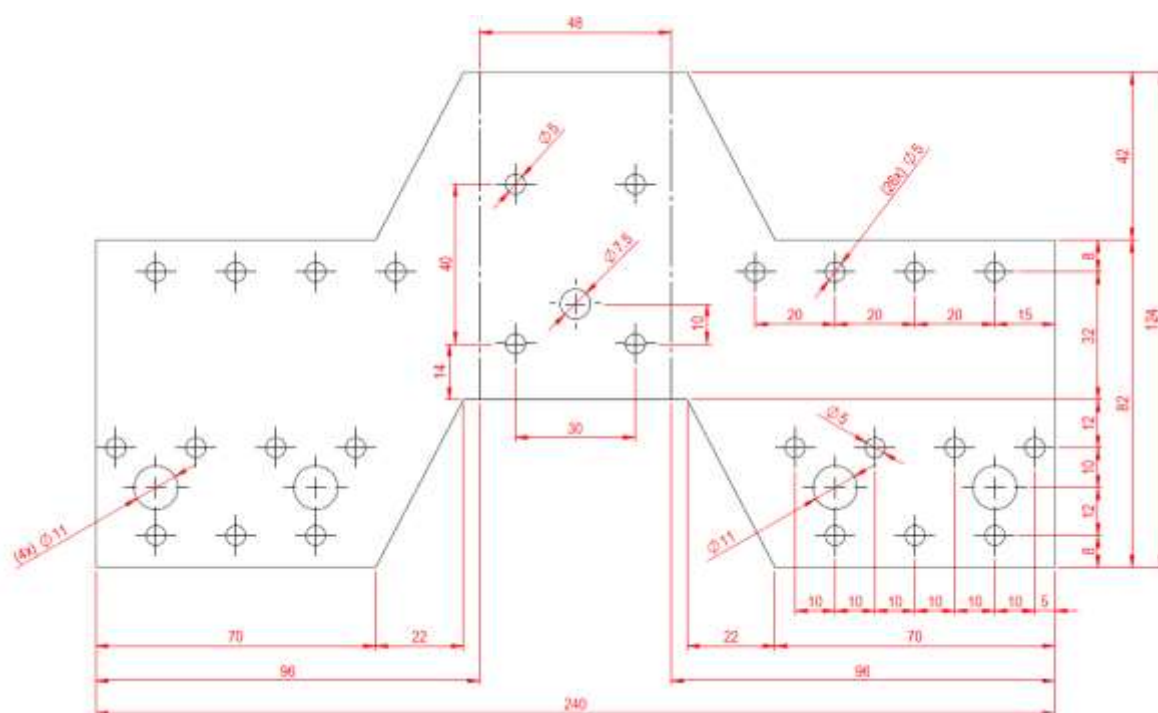


45x168x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-JH-005

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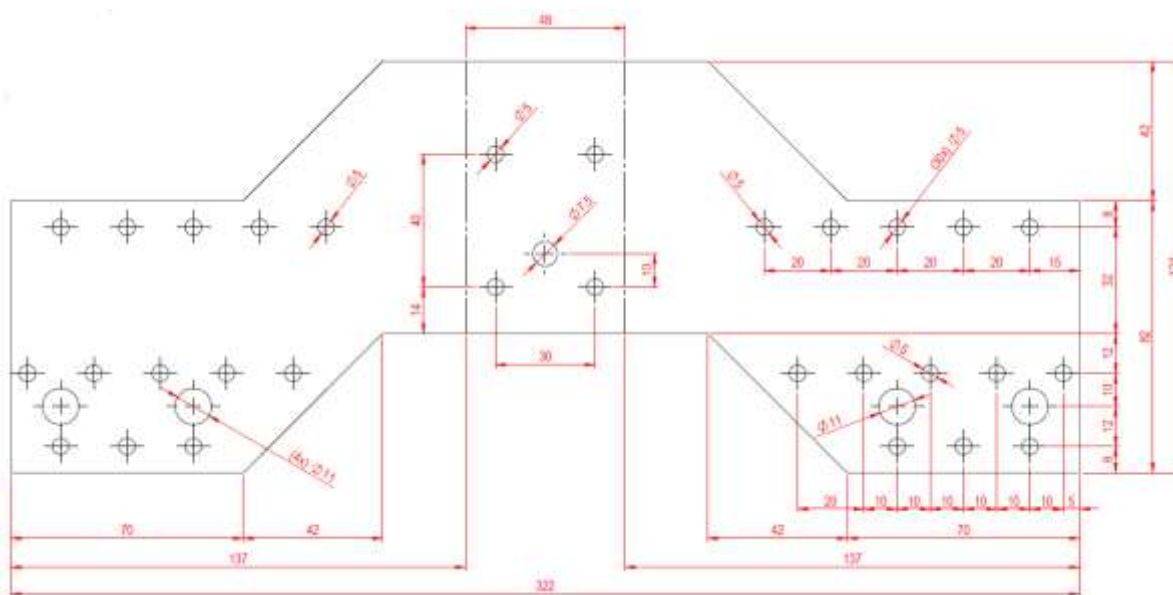


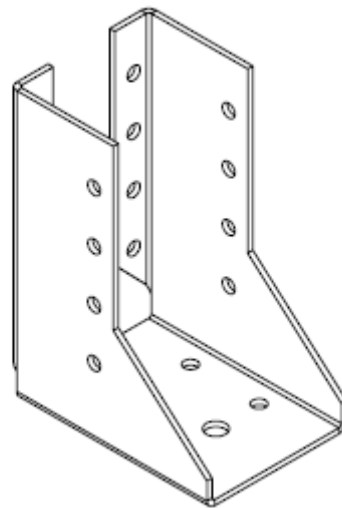
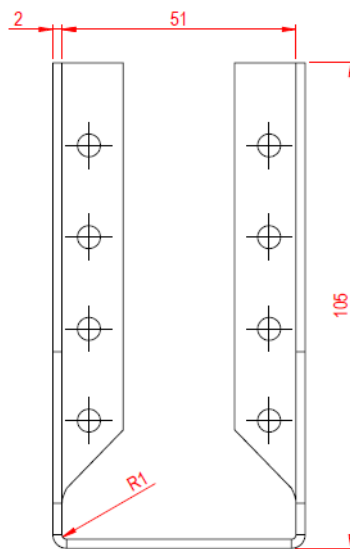
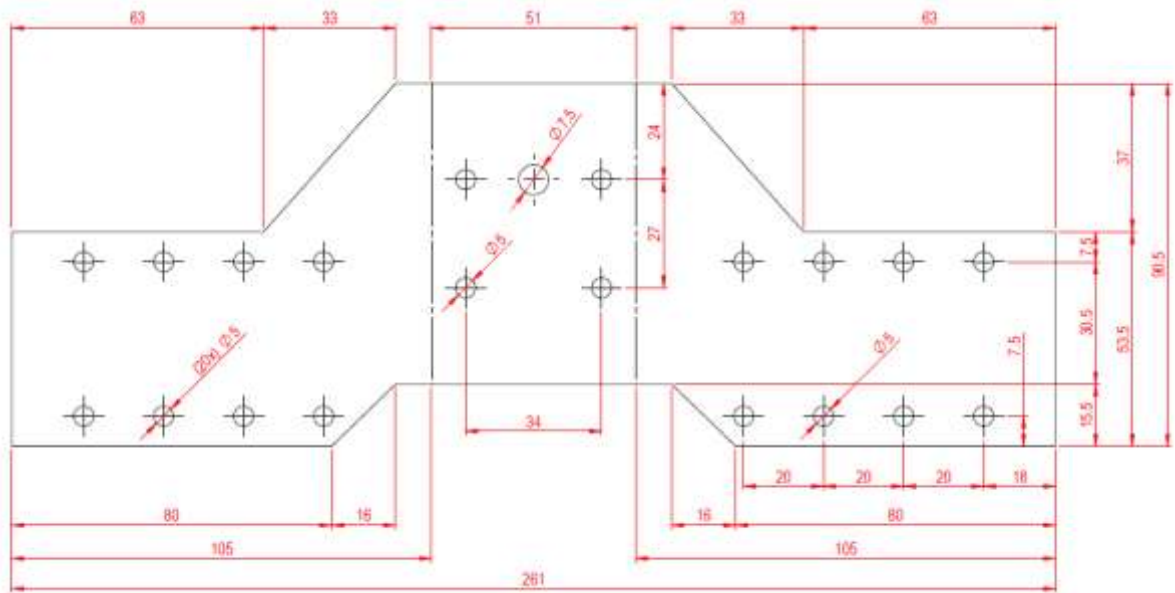
48x96x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908135

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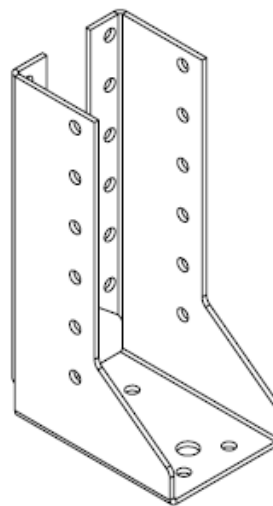
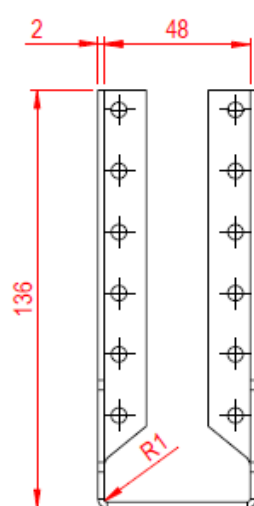
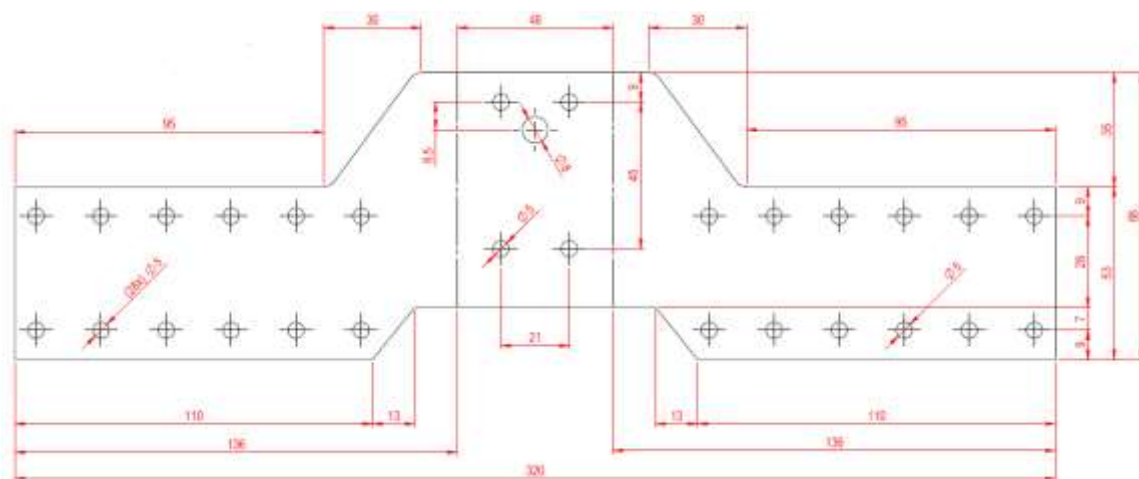


51x105x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-JH-008

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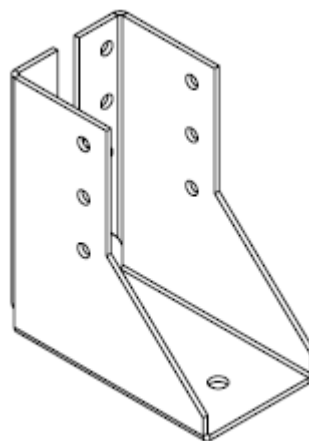
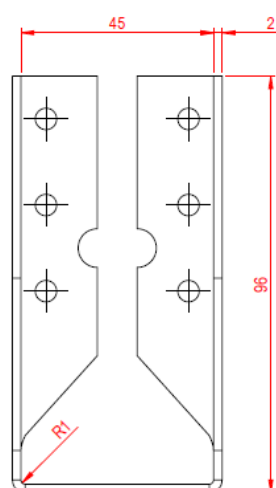
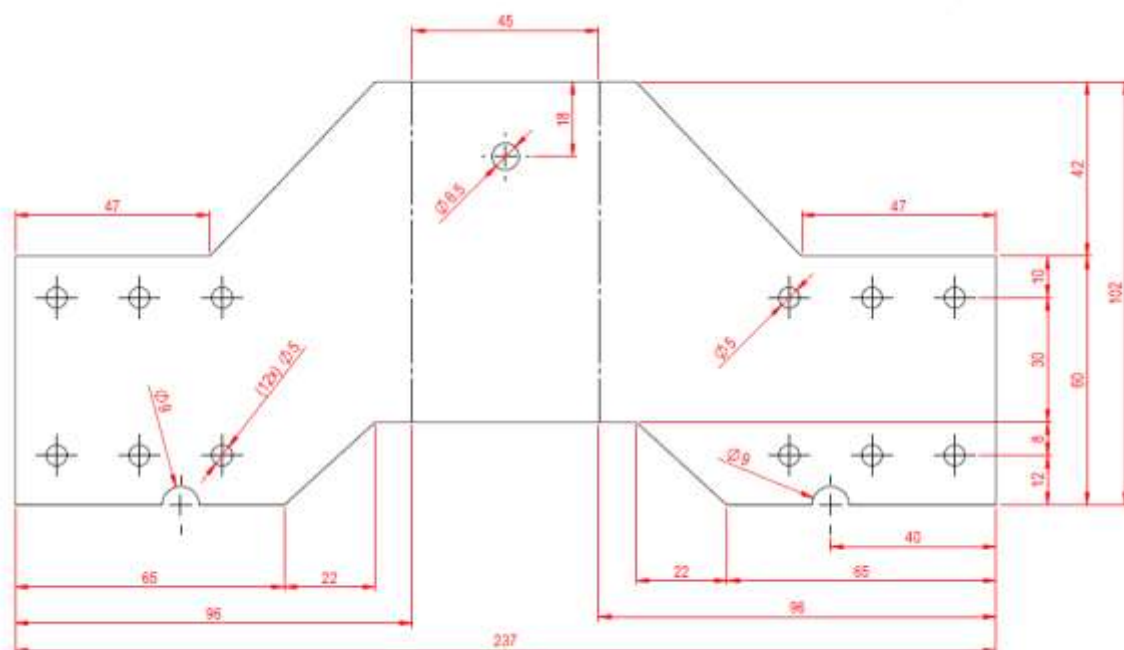


48x136x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-JH-009

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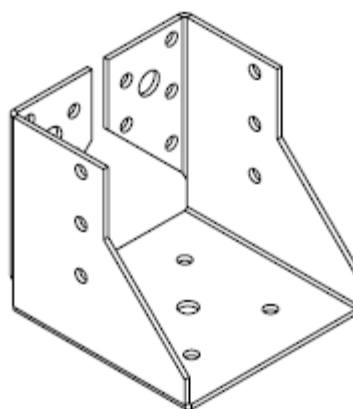
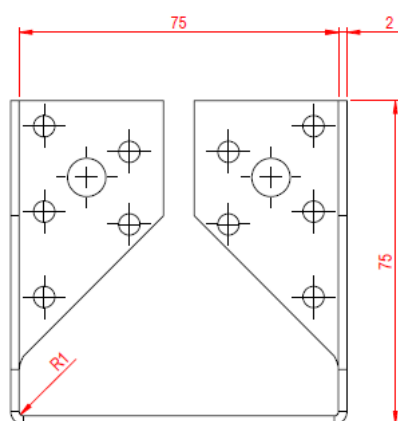


45x96x2 mm

NOVIPRO WOOD CONNECTORS

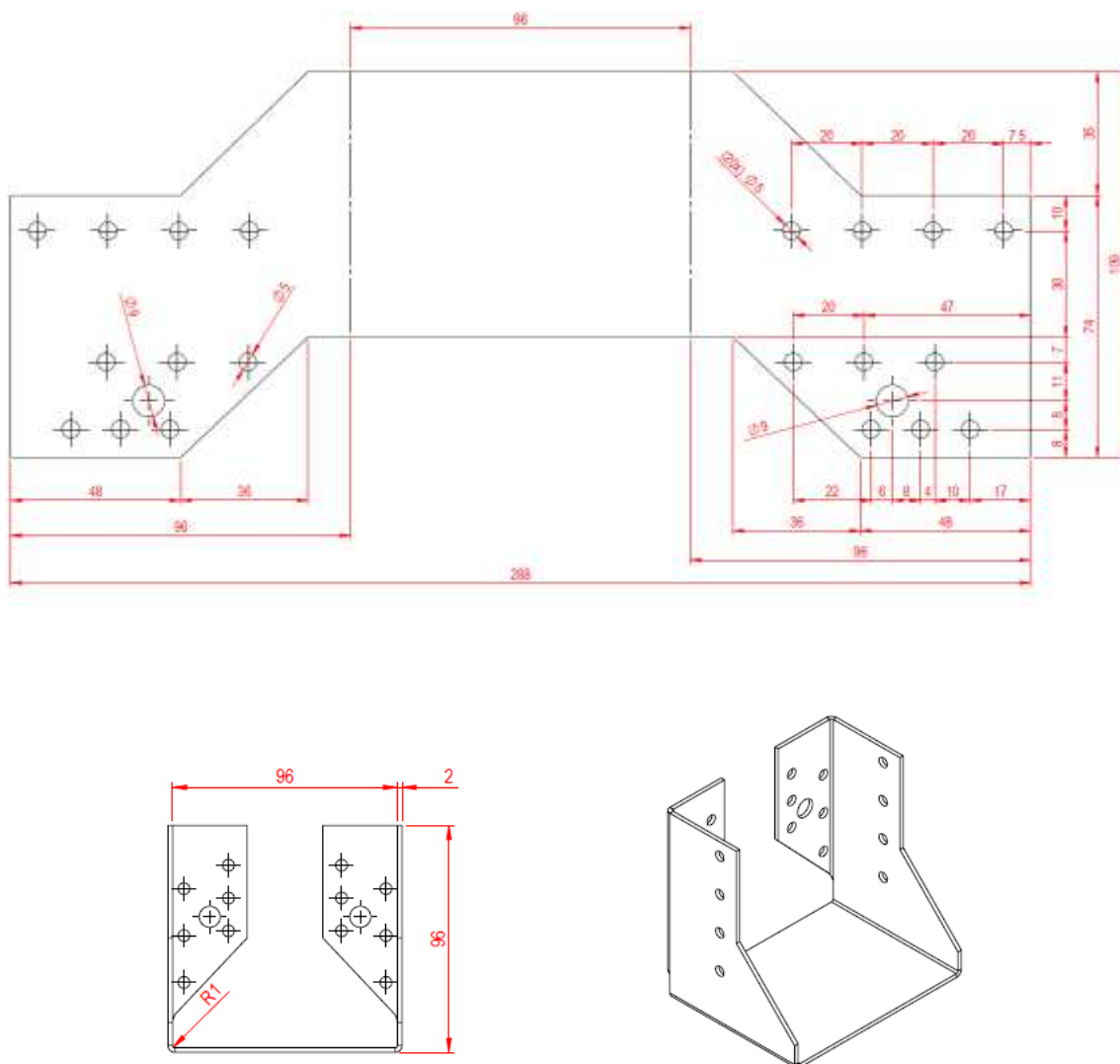
Three-dimensional nailing plates KIWC-JH-010

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75x75x2 mm

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Three-dimensional nailing plates KIWC-JH-011	

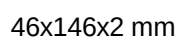


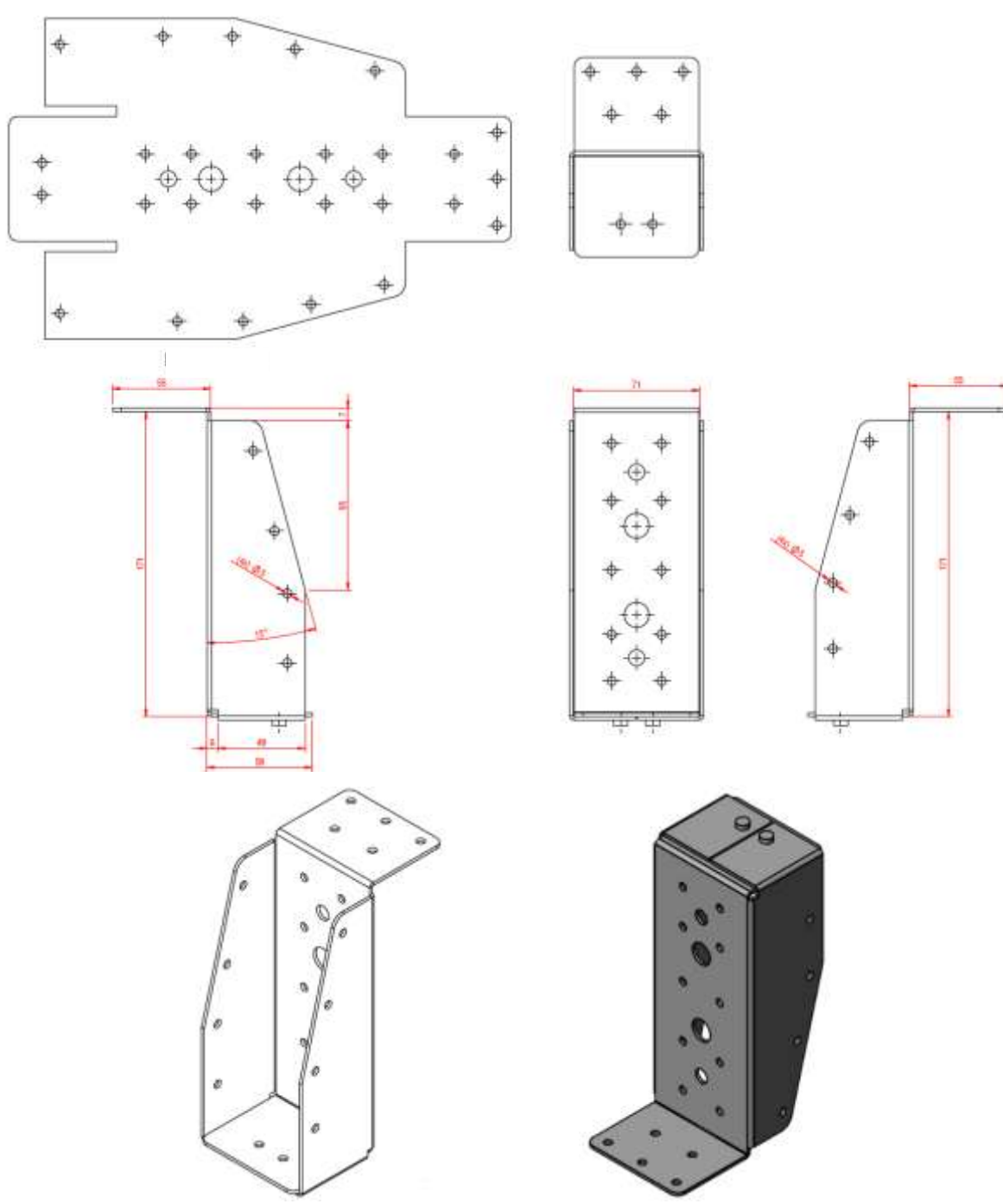
96x96x2 mm

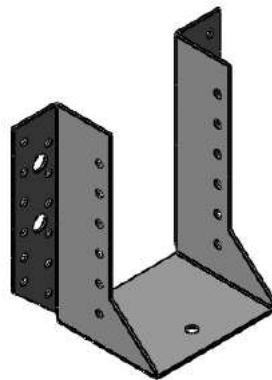
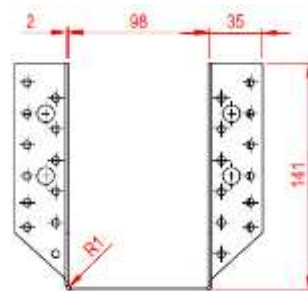
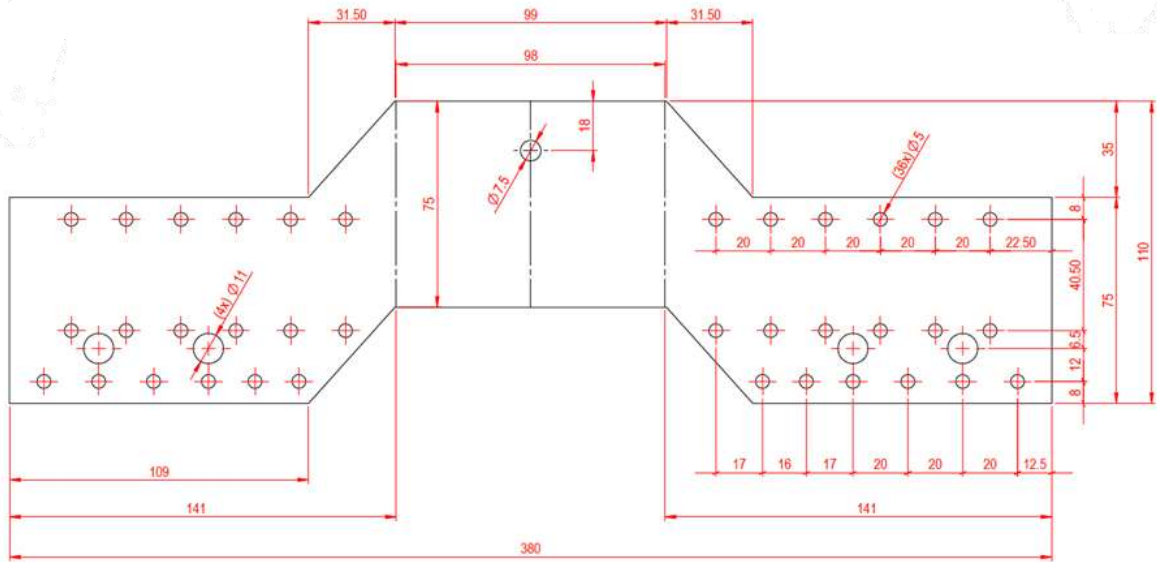
NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-JH-012

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NOVIPRO WOOD CONNECTORS	Annex A69 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates KIWC-JH-014	

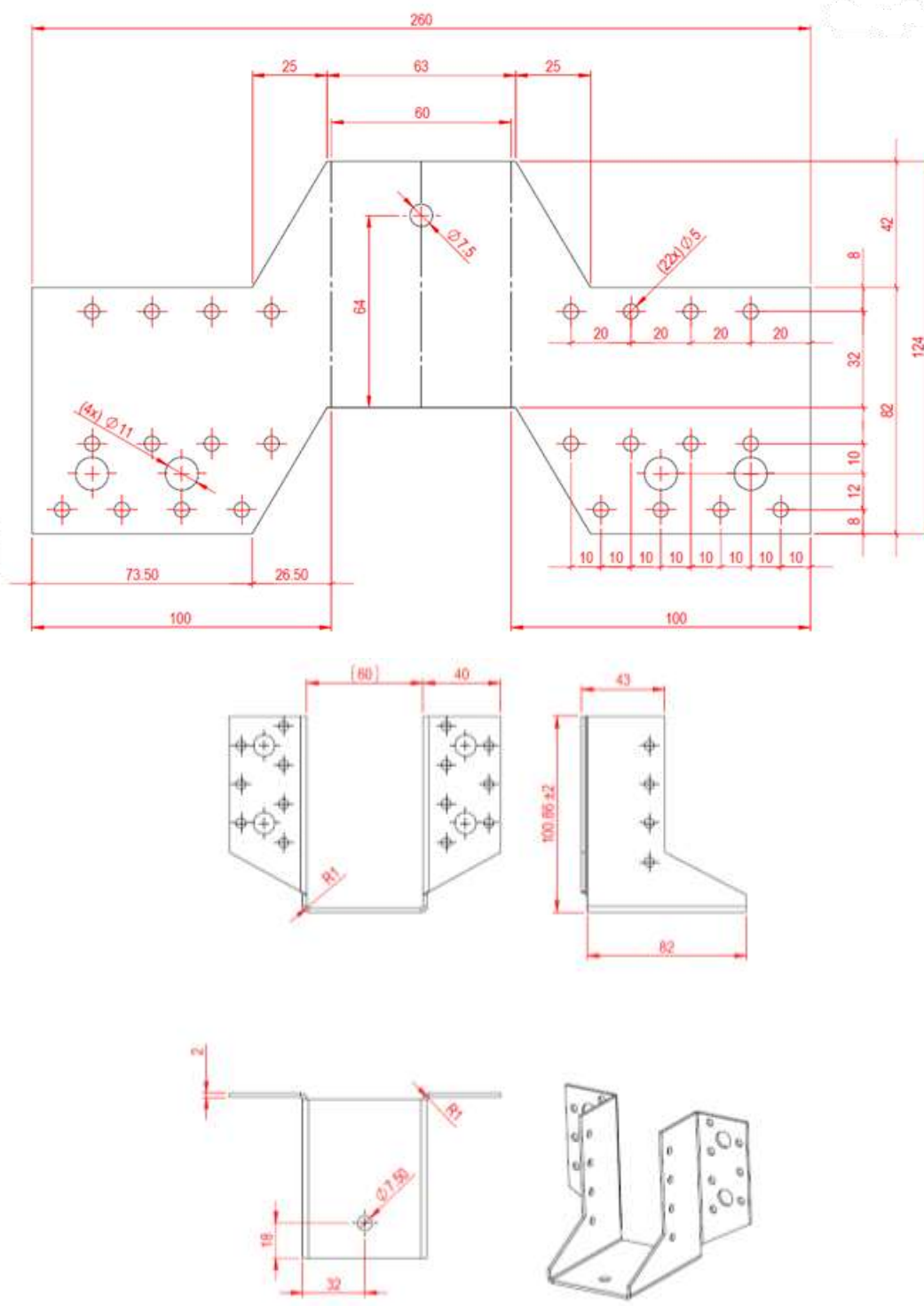


98x141x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908136

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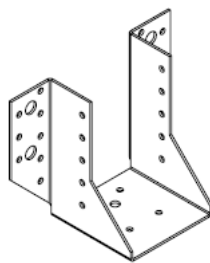
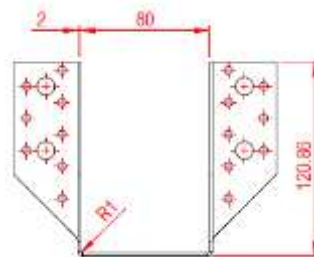
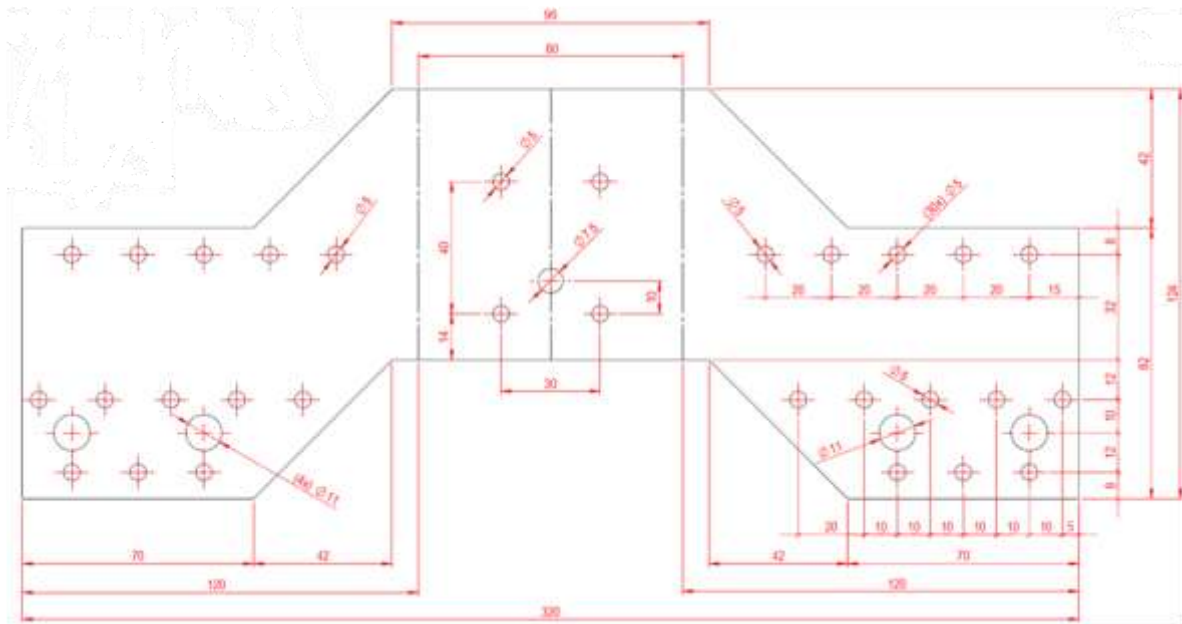


60x100x2 mm

NOVIPRO WOOD CONNECTORS

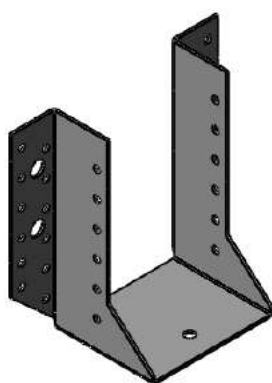
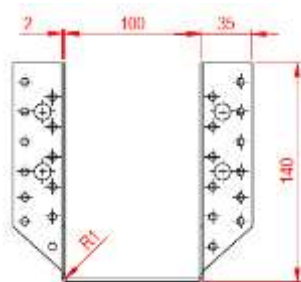
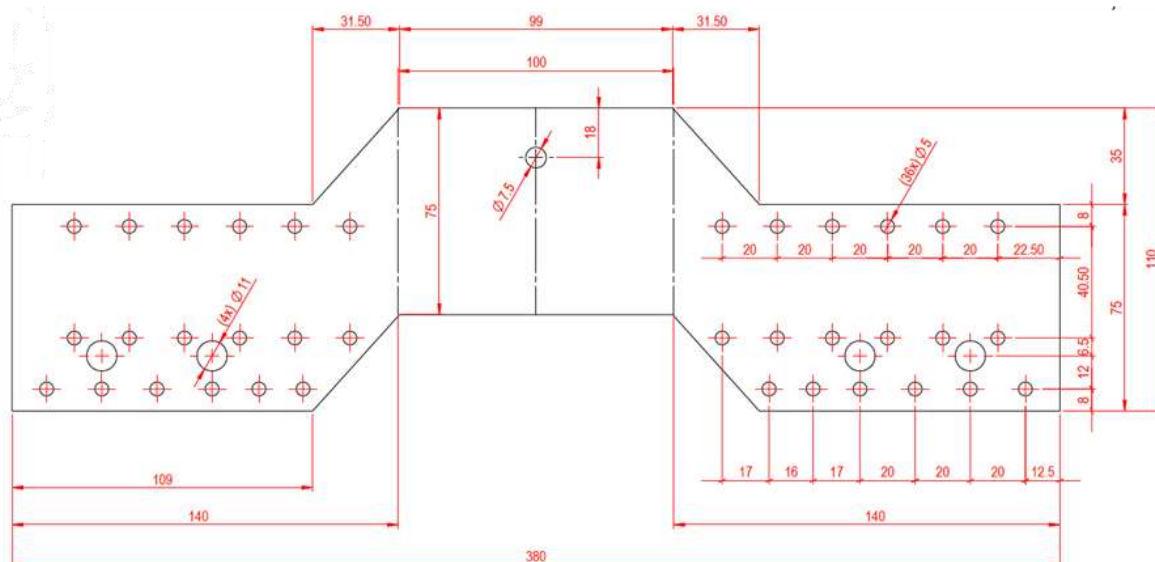
Three-dimensional nailing plates KIWC-JH-016

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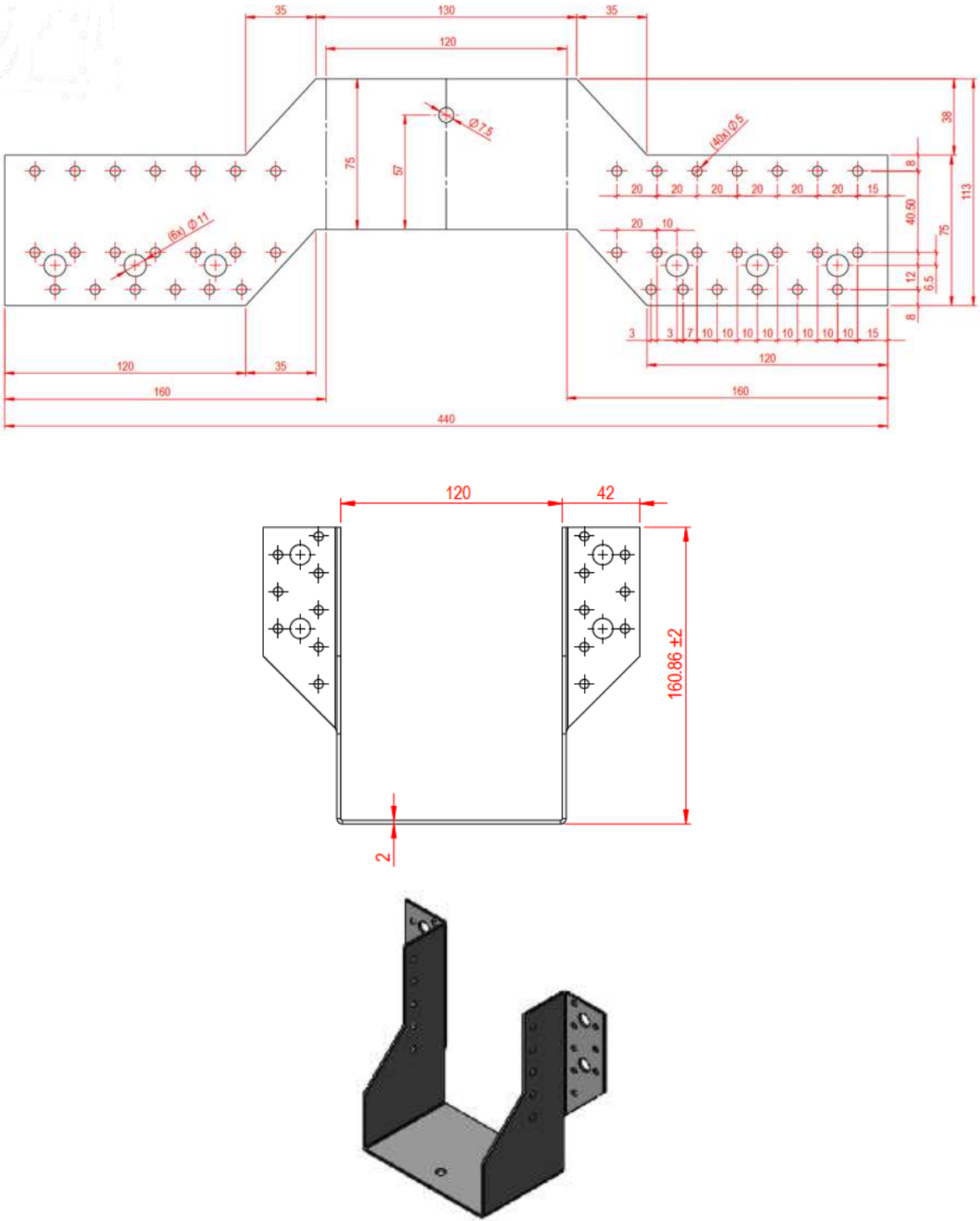
80x120x2 mm

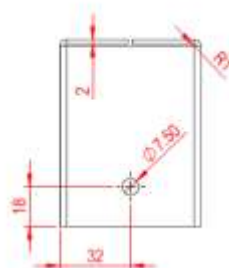
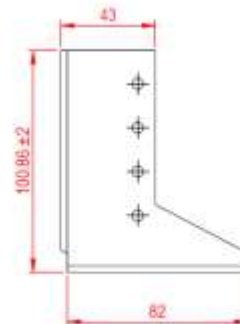
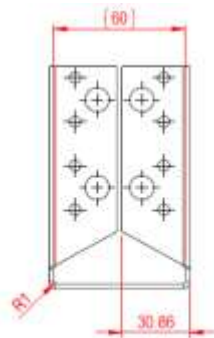
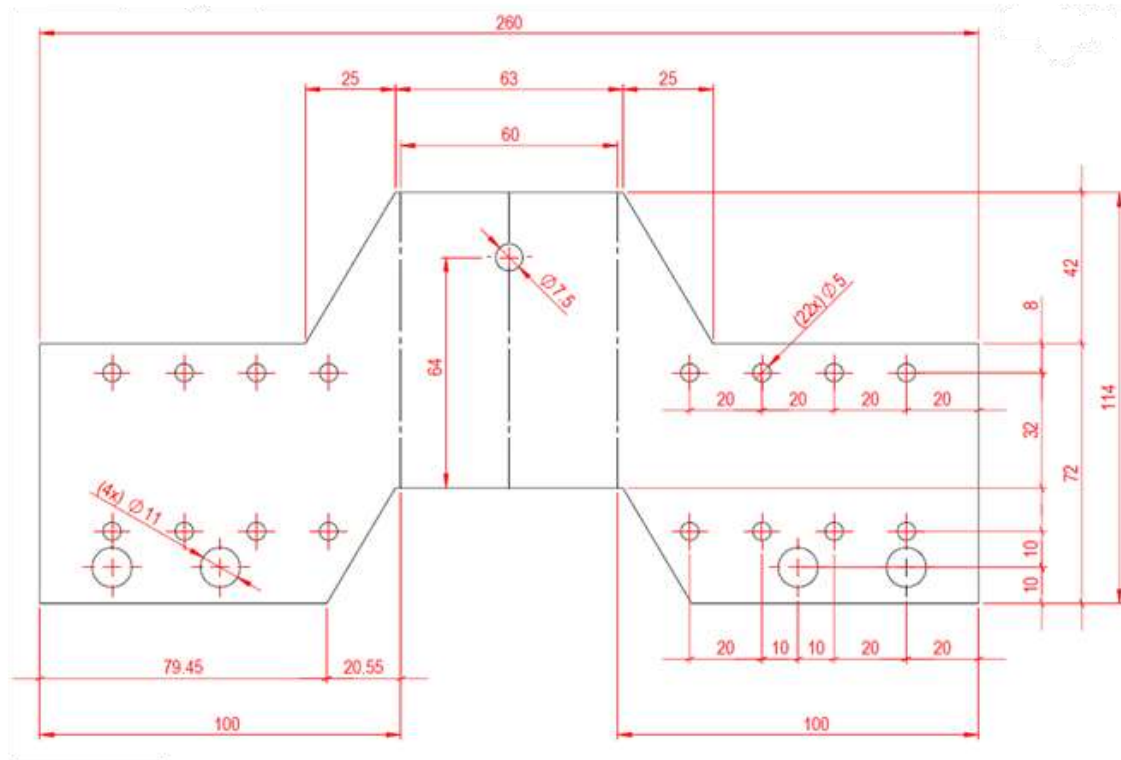
NOVIPRO WOOD CONNECTORS	Annex A72 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates KIWC-JH-017	



100x140x2 mm

NOVIPRO WOOD CONNECTORS	Annex A73 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates KIWC-JH-018	

 120x160x2 mm	
NOVIPRO WOOD CONNECTORS	
Three-dimensional nailing plates KIWC-JH-019	
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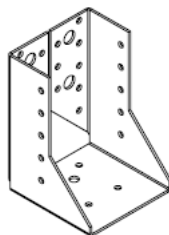
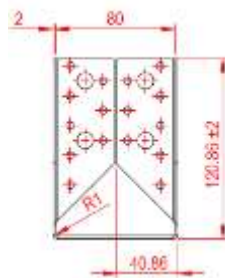
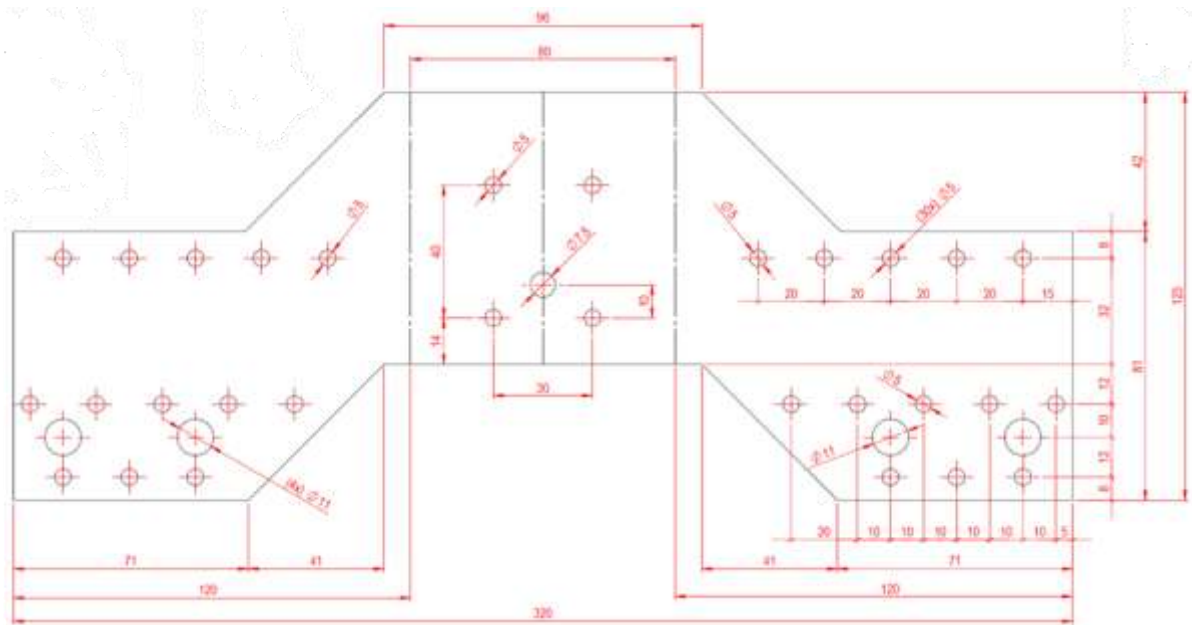


60x100x2 mm

NOVIPRO WOOD CONNECTORS

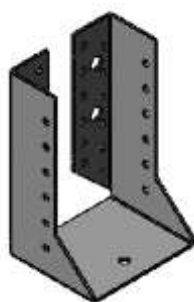
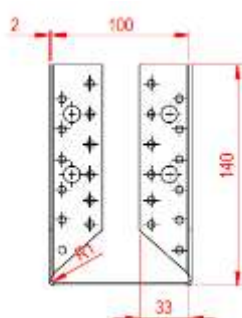
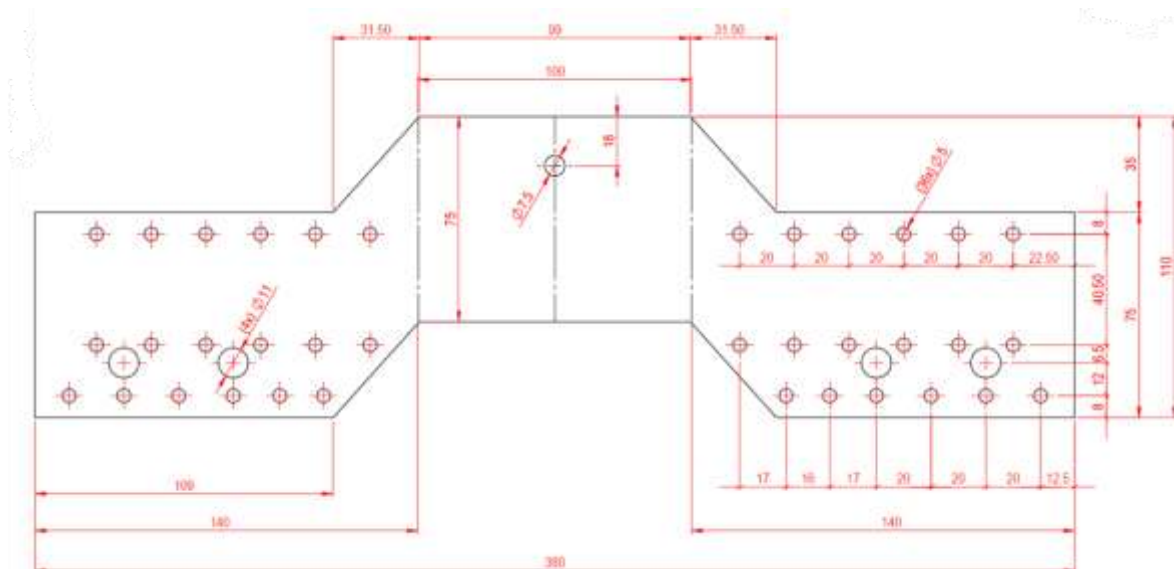
Three-dimensional nailing plates KIWC-JH-020

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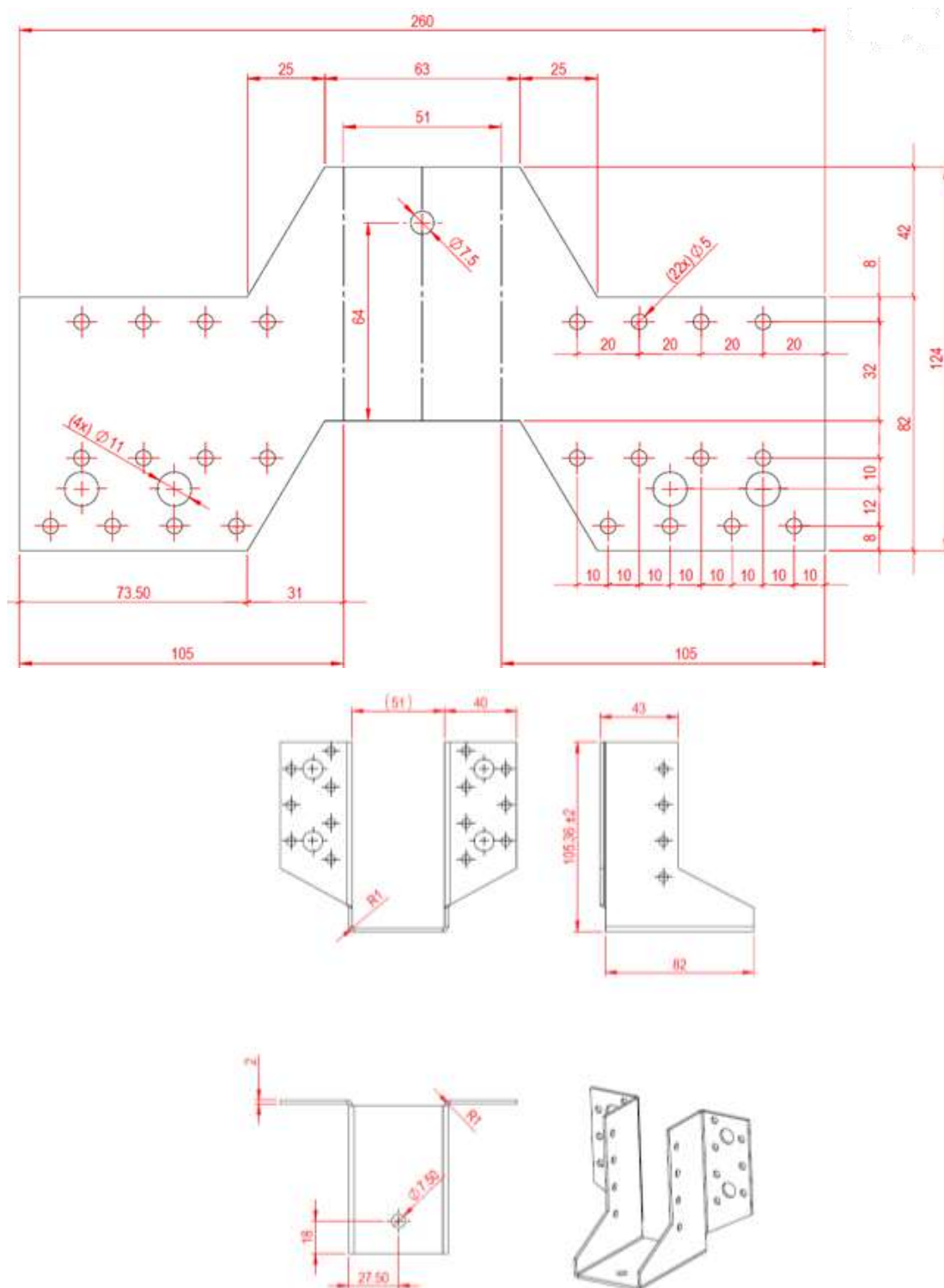
80x120x2 mm

NOVIPRO WOOD CONNECTORS	Annex A76 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates KIWC-JH-021	



100x140x2 mm

NOVIPRO WOOD CONNECTORS	Annex A77 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates KIWC-JH-022	

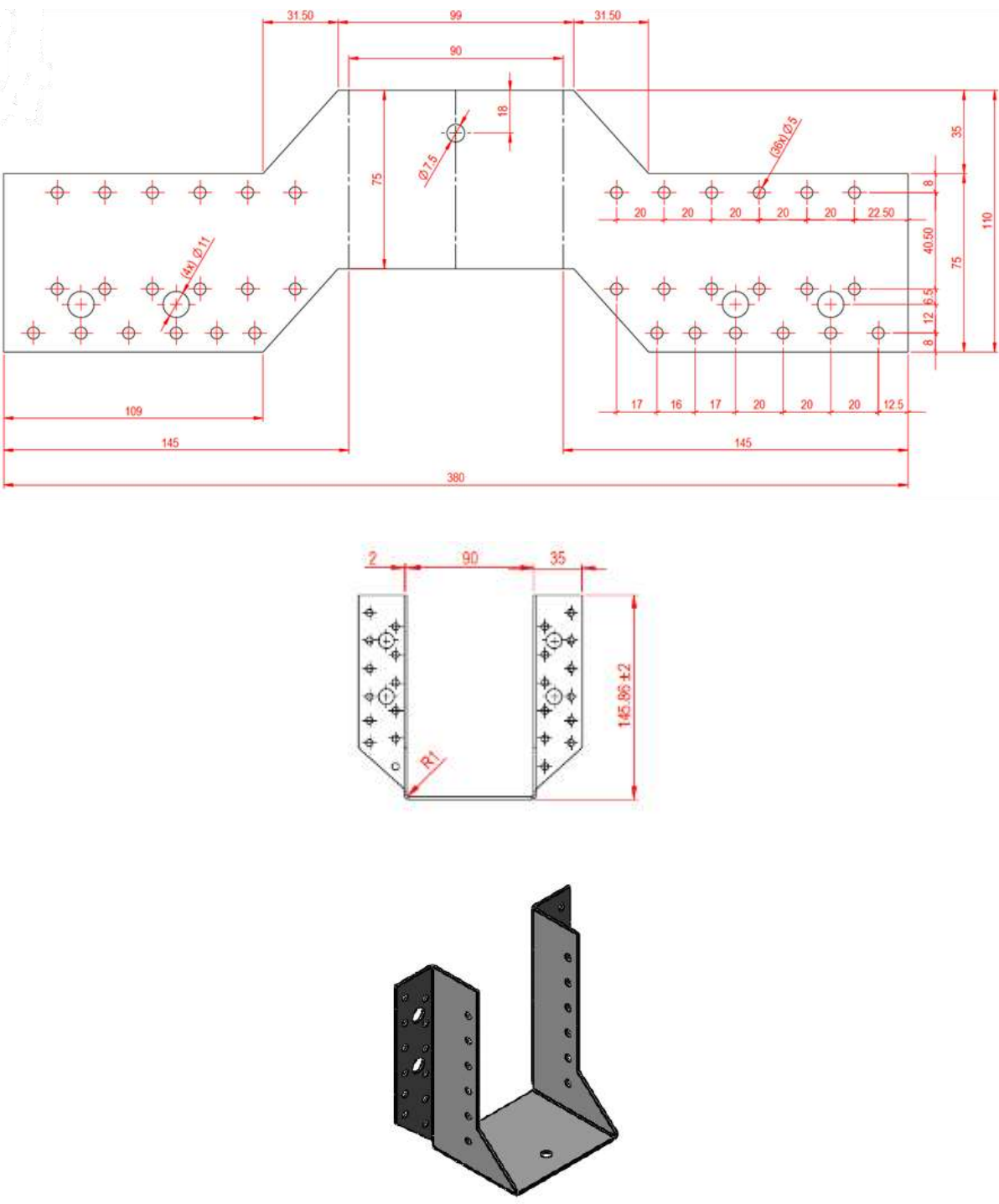


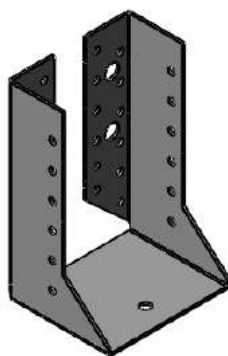
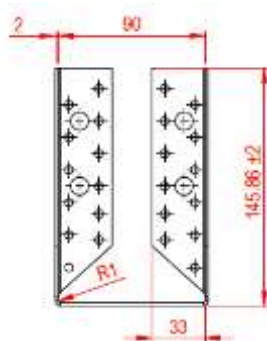
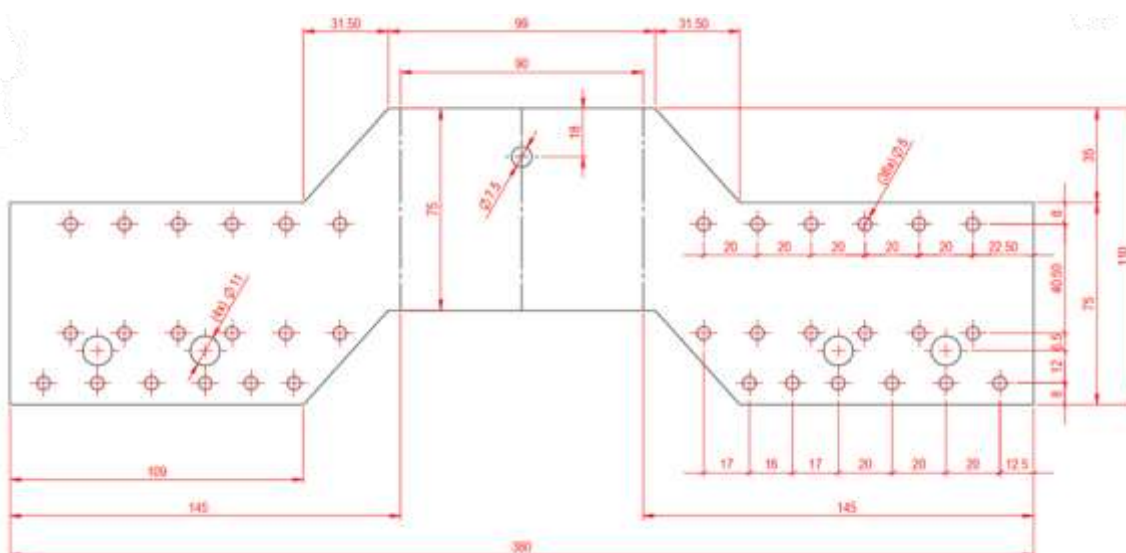
51x105x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-JH-023

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 90x145x2 mm	
NOVIPRO WOOD CONNECTORS	Annex A79 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates KIWC-JH-024	

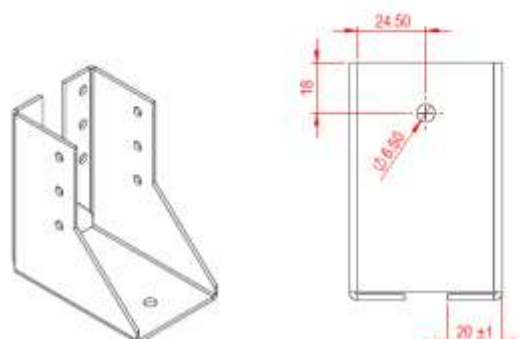
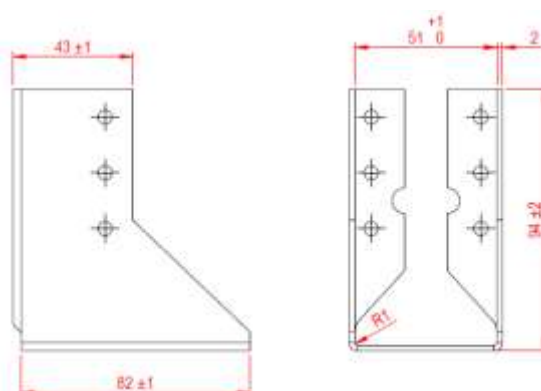
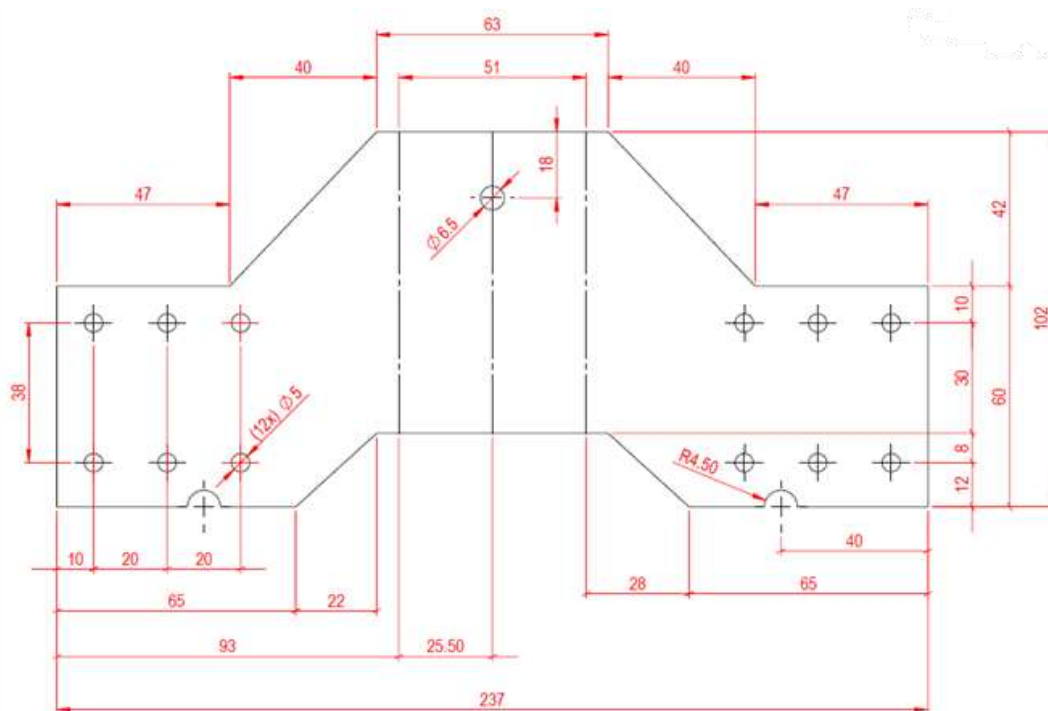


90x145x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-JH-025

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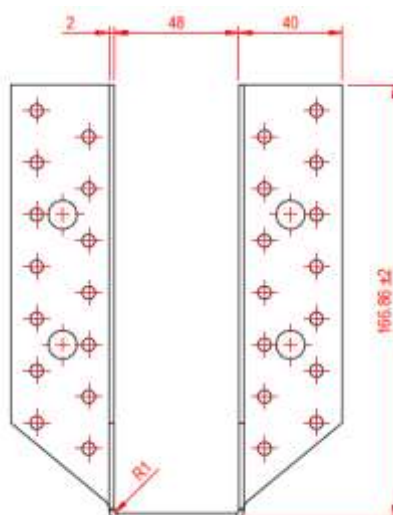
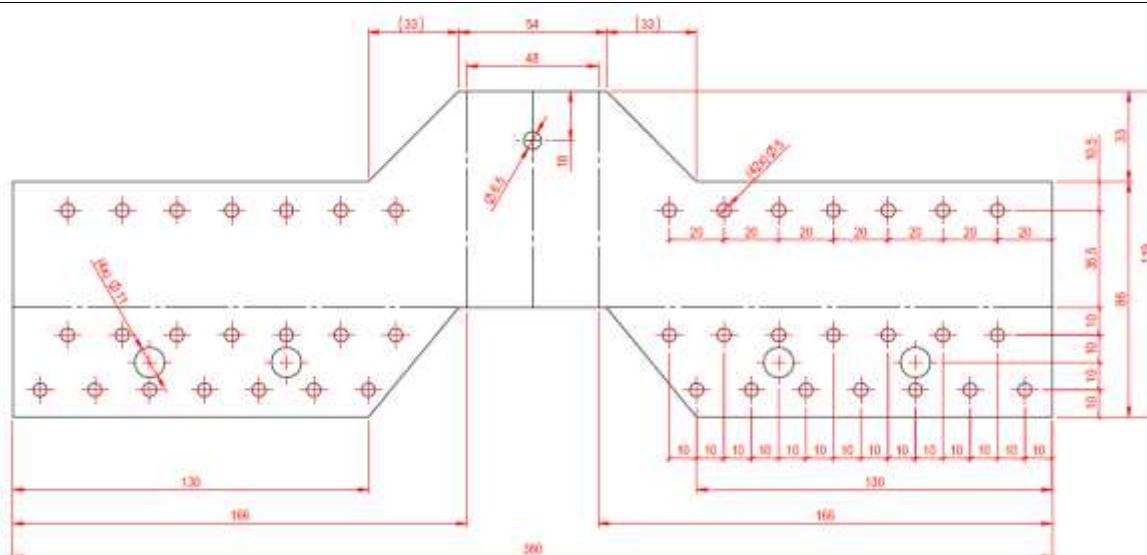


51x93x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-JH-026

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of European
Technical Assessment
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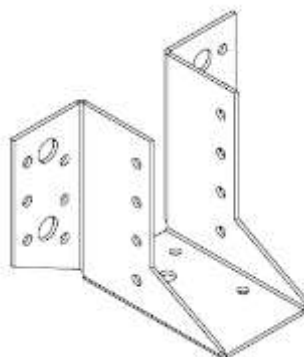
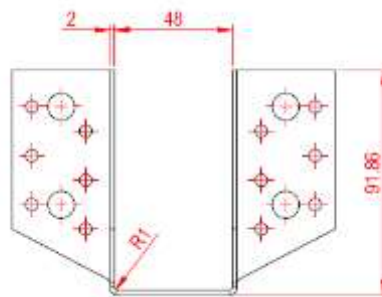
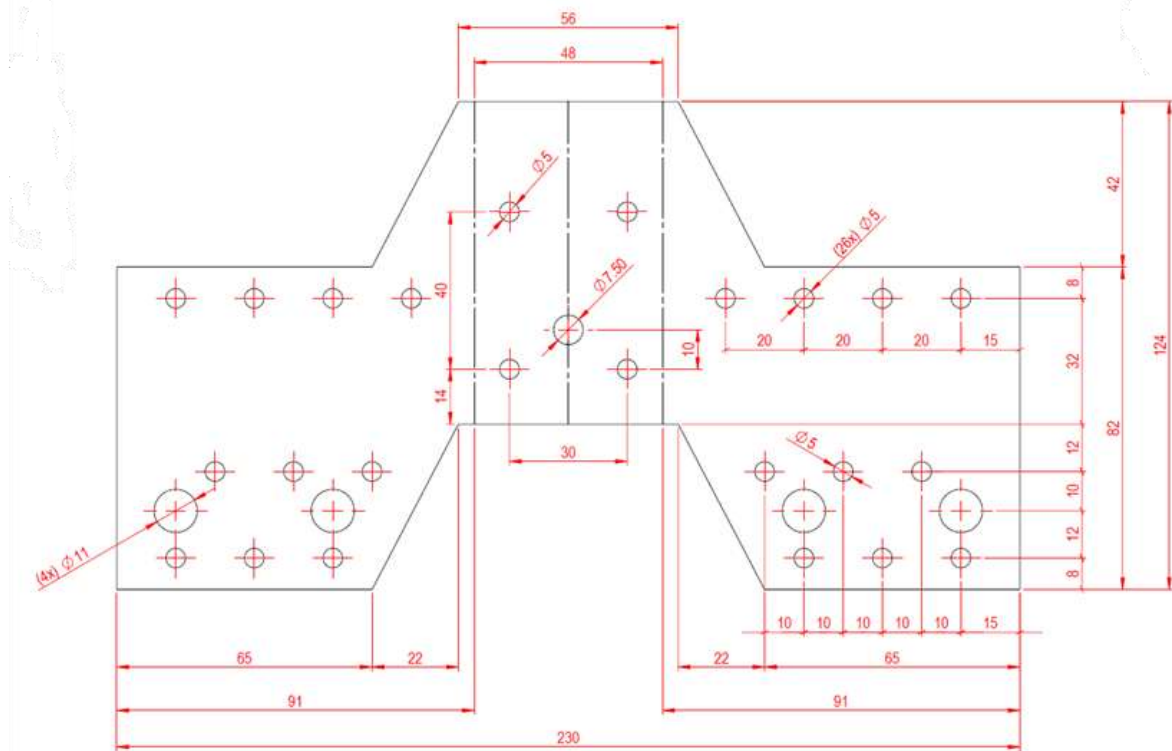


48x166x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates 101908134

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of European
Technical Assessment
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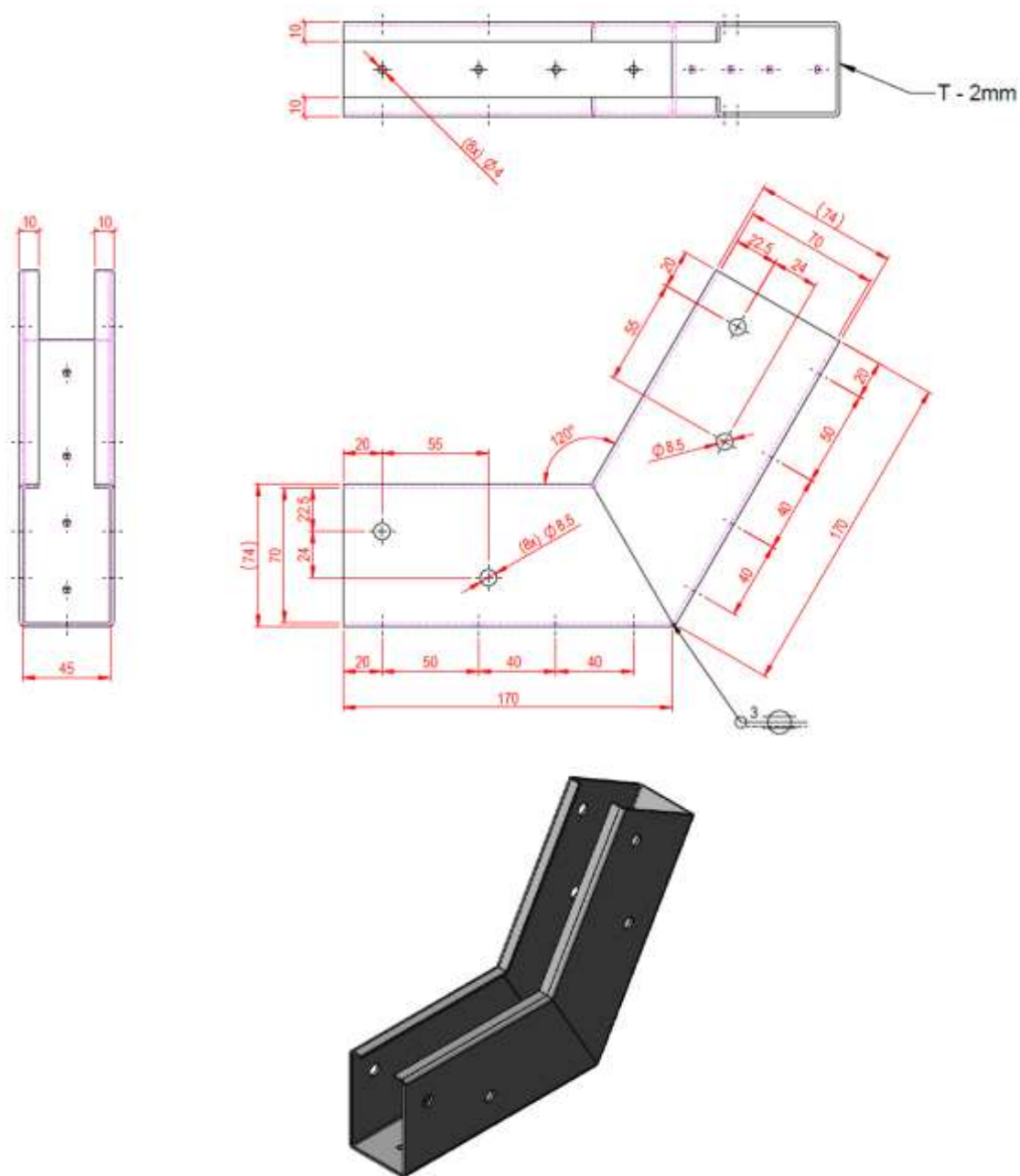


48x91x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-JH-028

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of European
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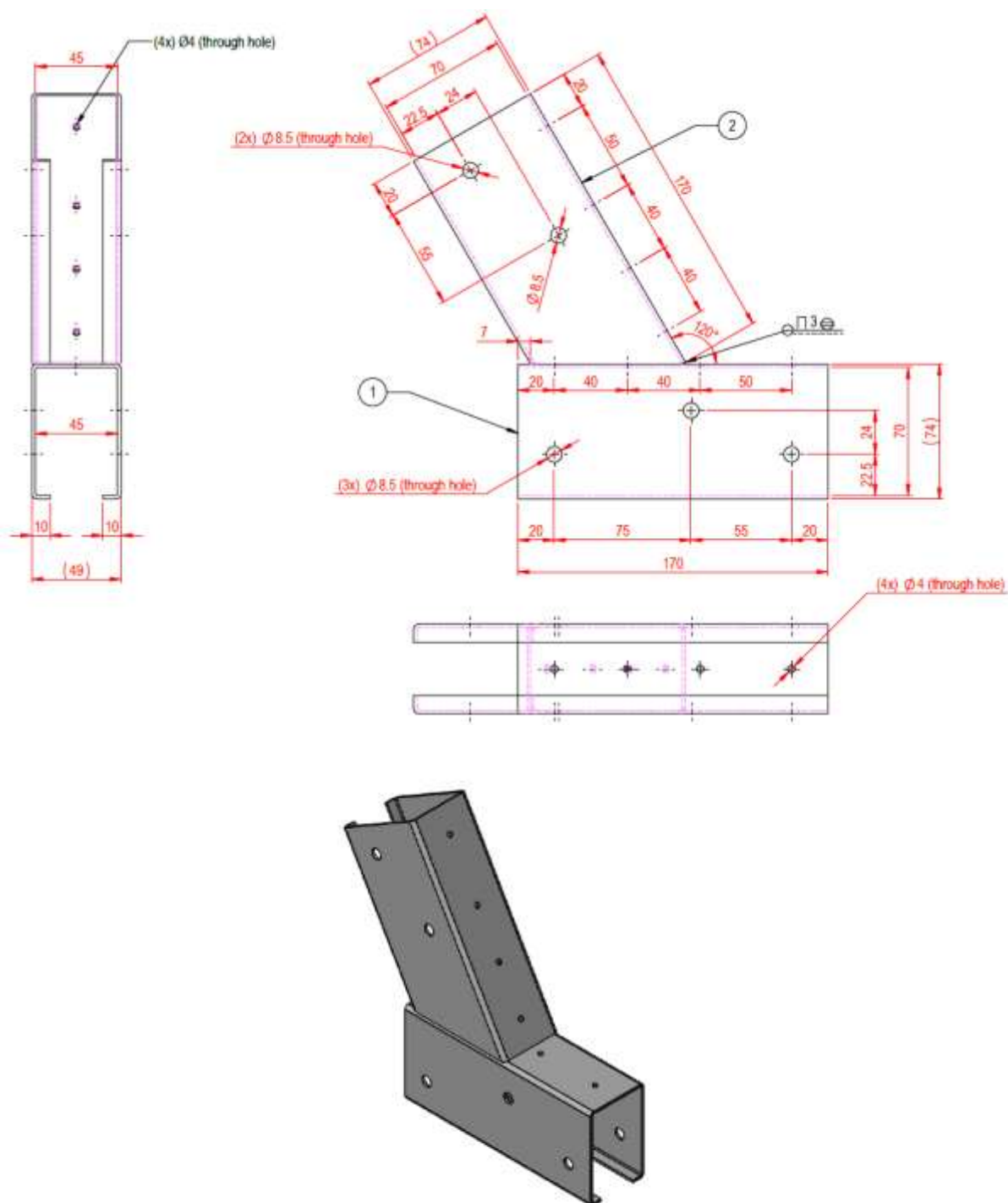


45x70x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-RA-01

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of European
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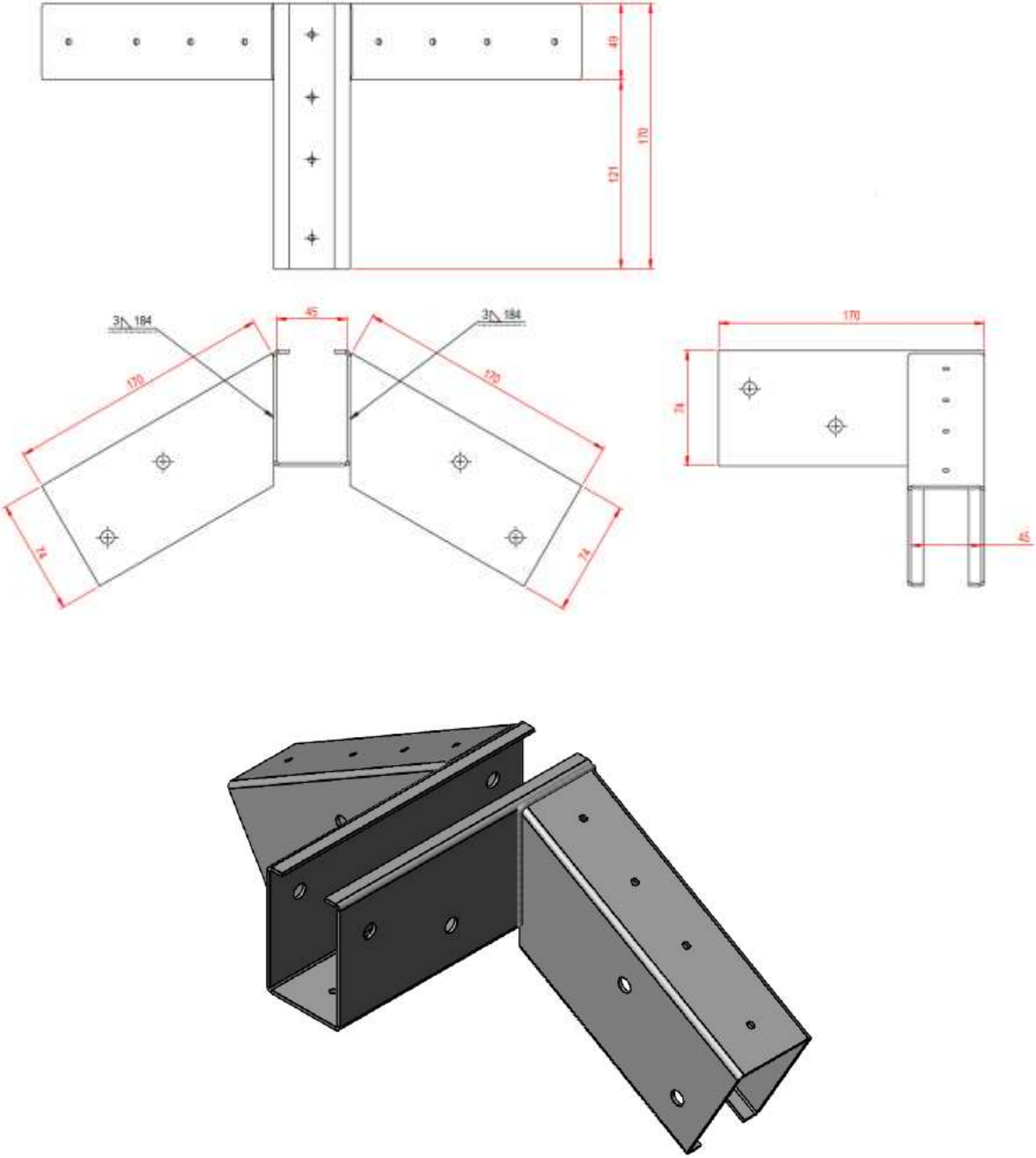


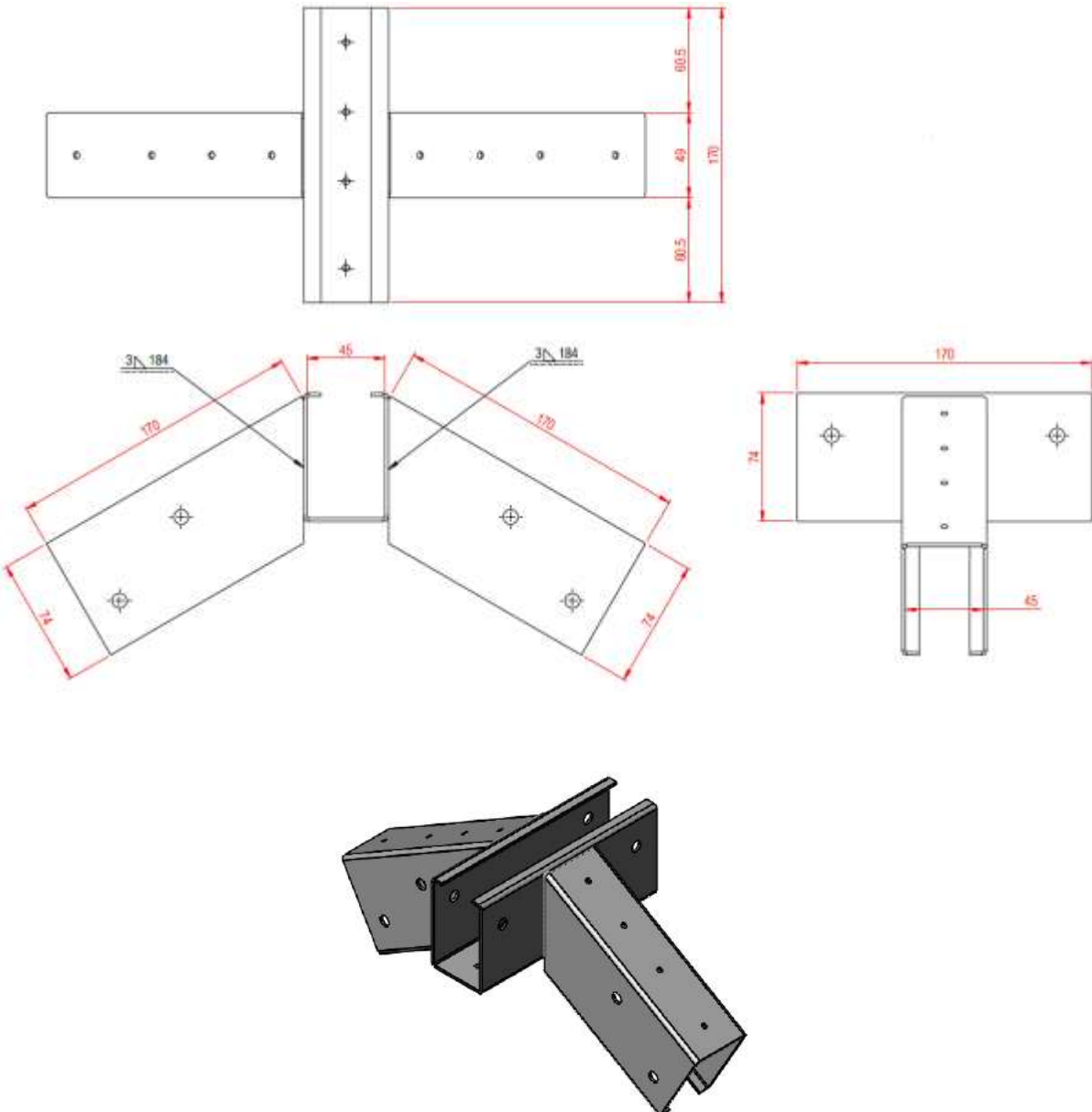
45x70x2 mm

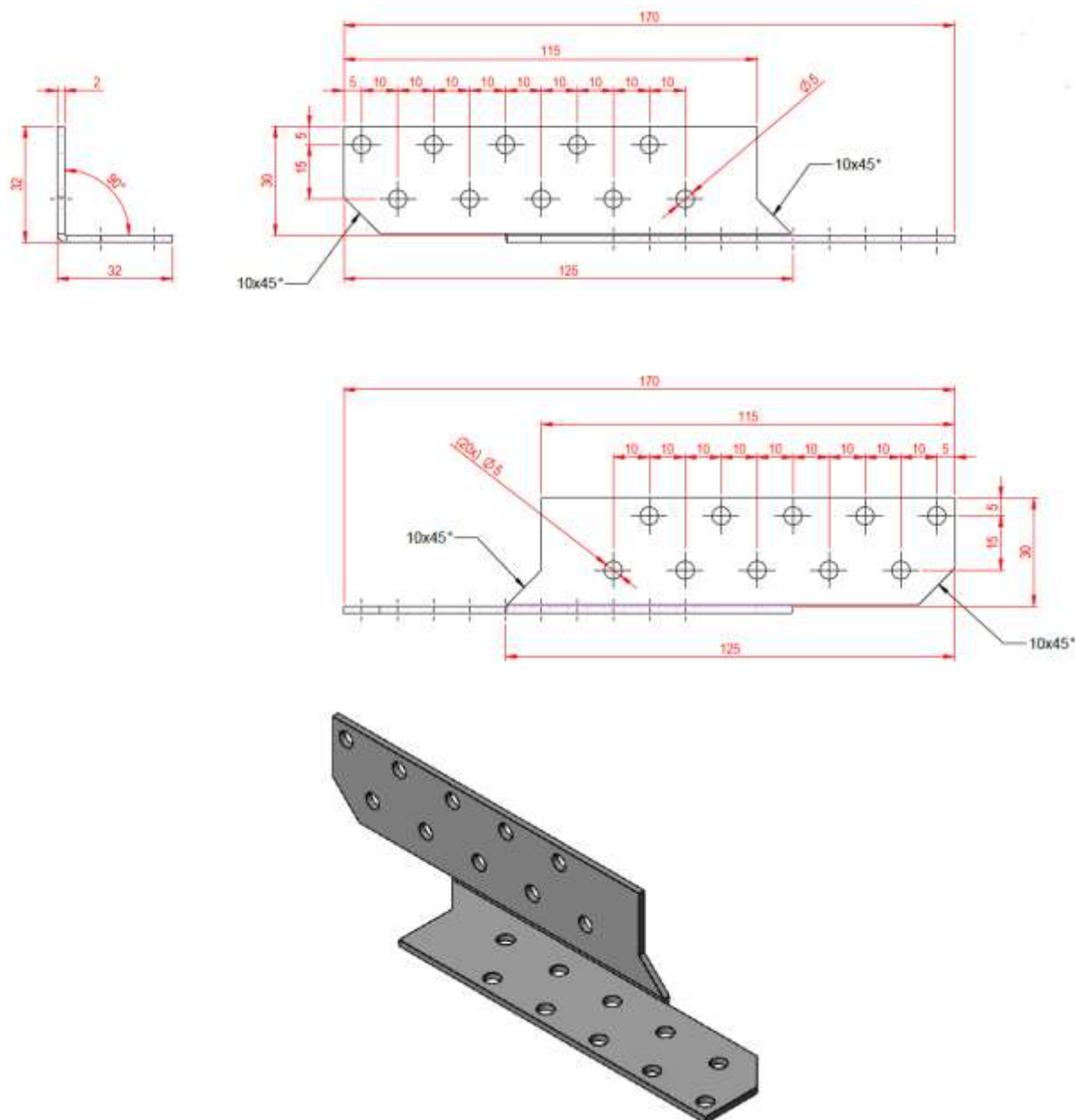
NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-RA-02

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 45x70x2 mm	
NOVIPRO WOOD CONNECTORS	Annex A86 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates KIWC-RA-03	

 45x70x2 mm	
NOVIPRO WOOD CONNECTORS	Annex A87 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates KIWC-RA-04	

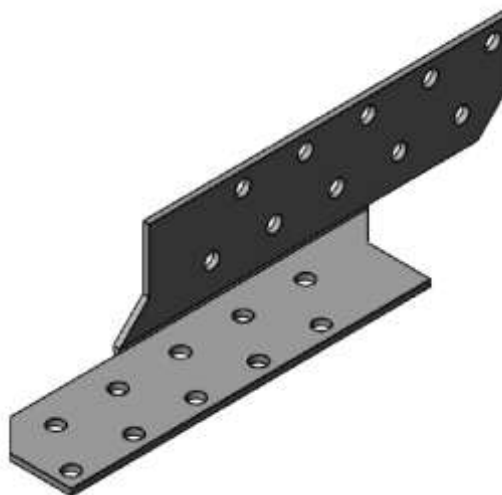
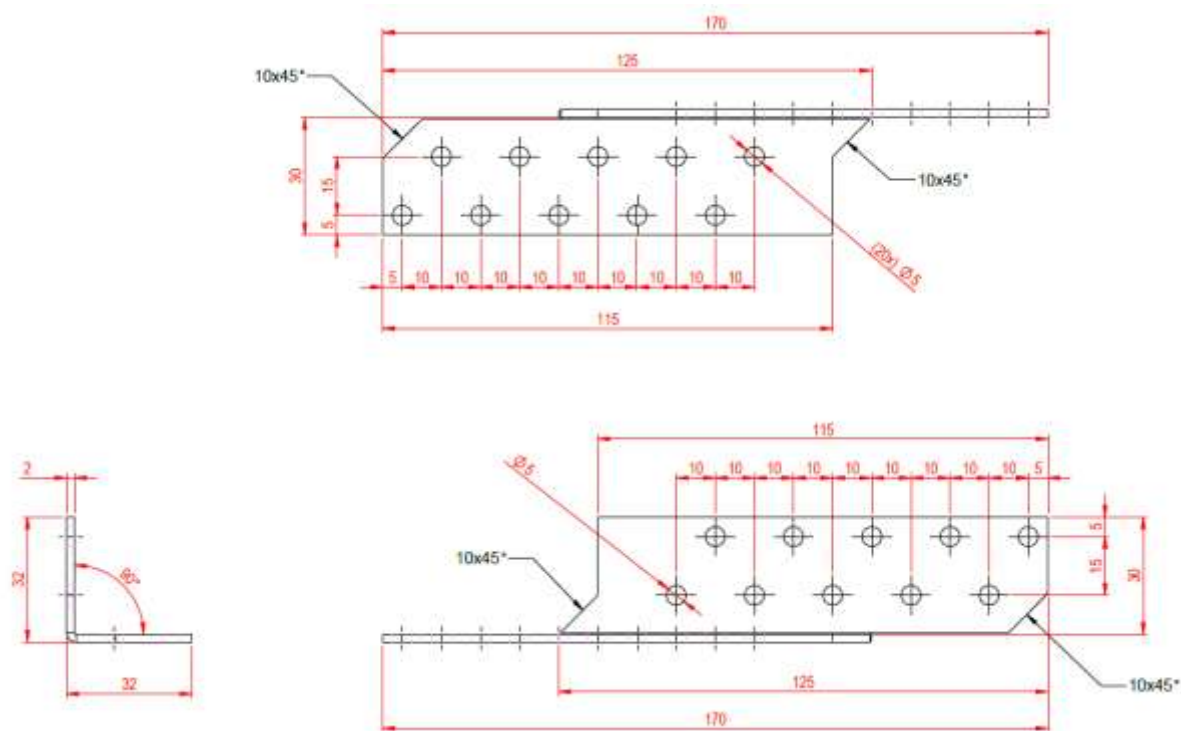


170x30x2 mm

NOVIPRO WOOD CONNECTORS

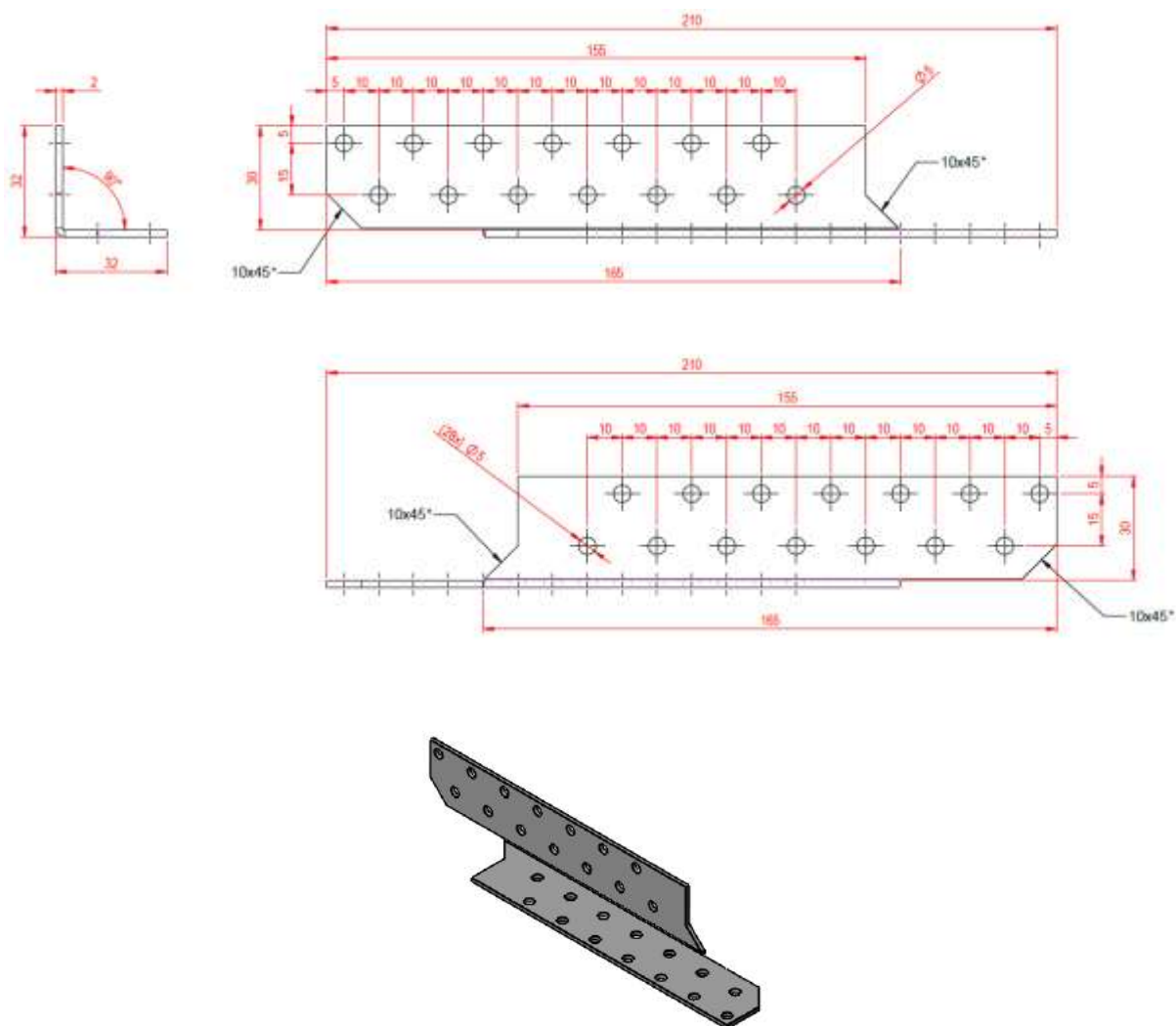
Three-dimensional nailing plates 101908172

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170x30x2 mm

NOVIPRO WOOD CONNECTORS	Annex A89 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates 101908173	

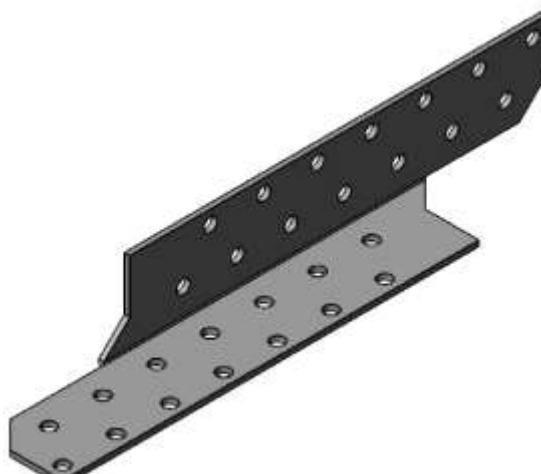
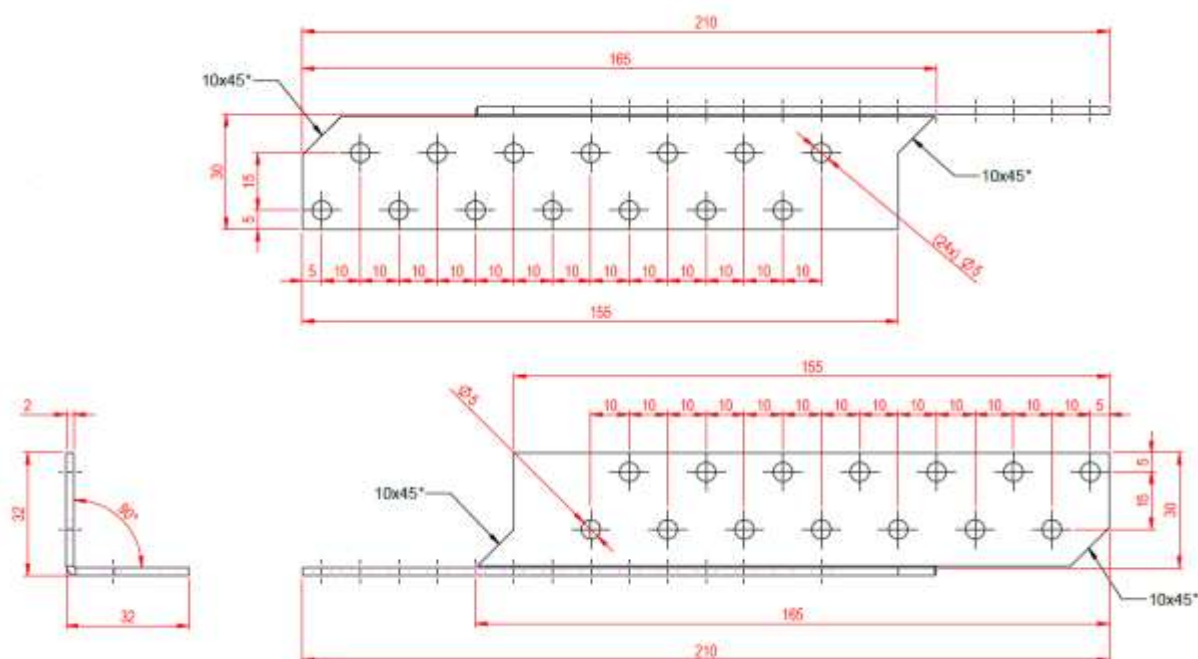


210x30x2 mm

NOVIPRO WOOD CONNECTORS

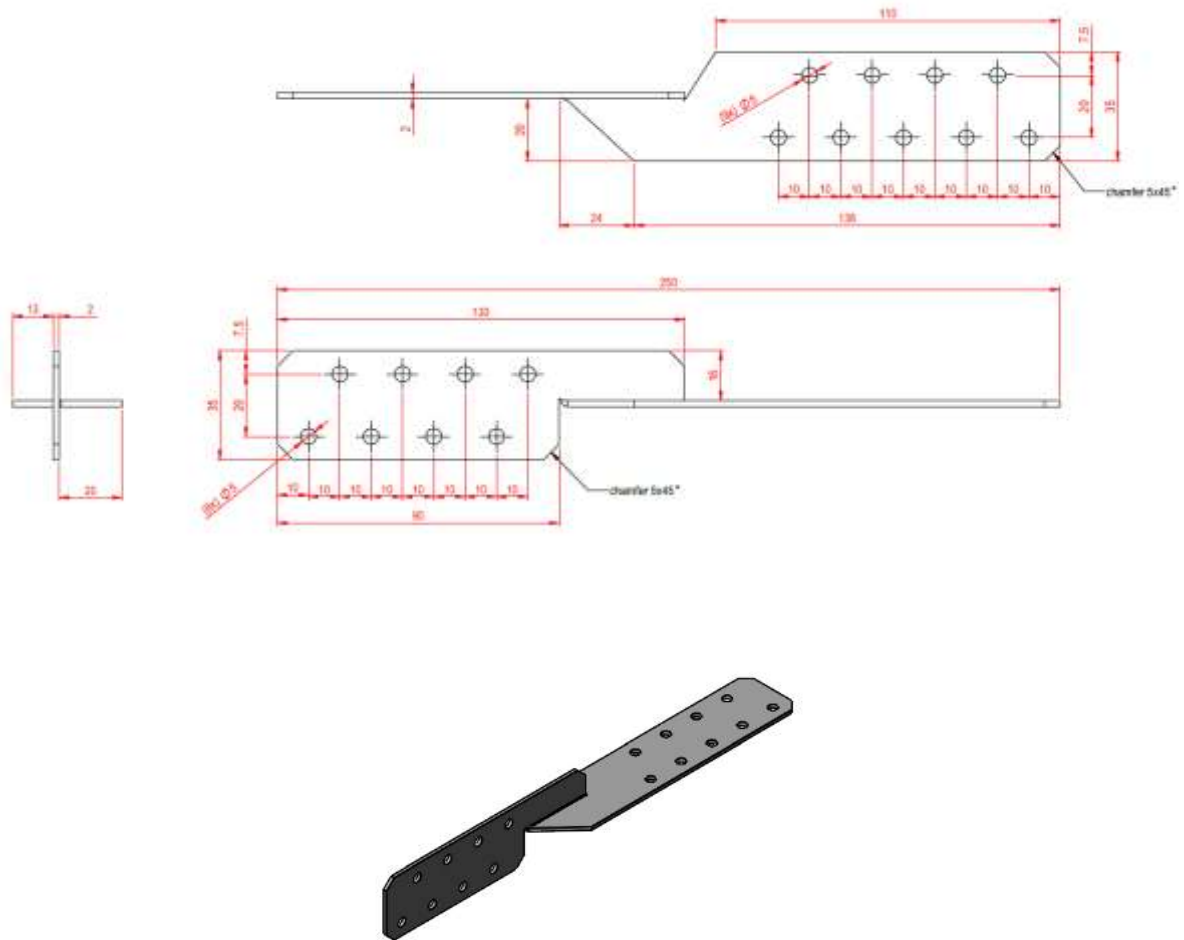
Three-dimensional nailing plates 101908169

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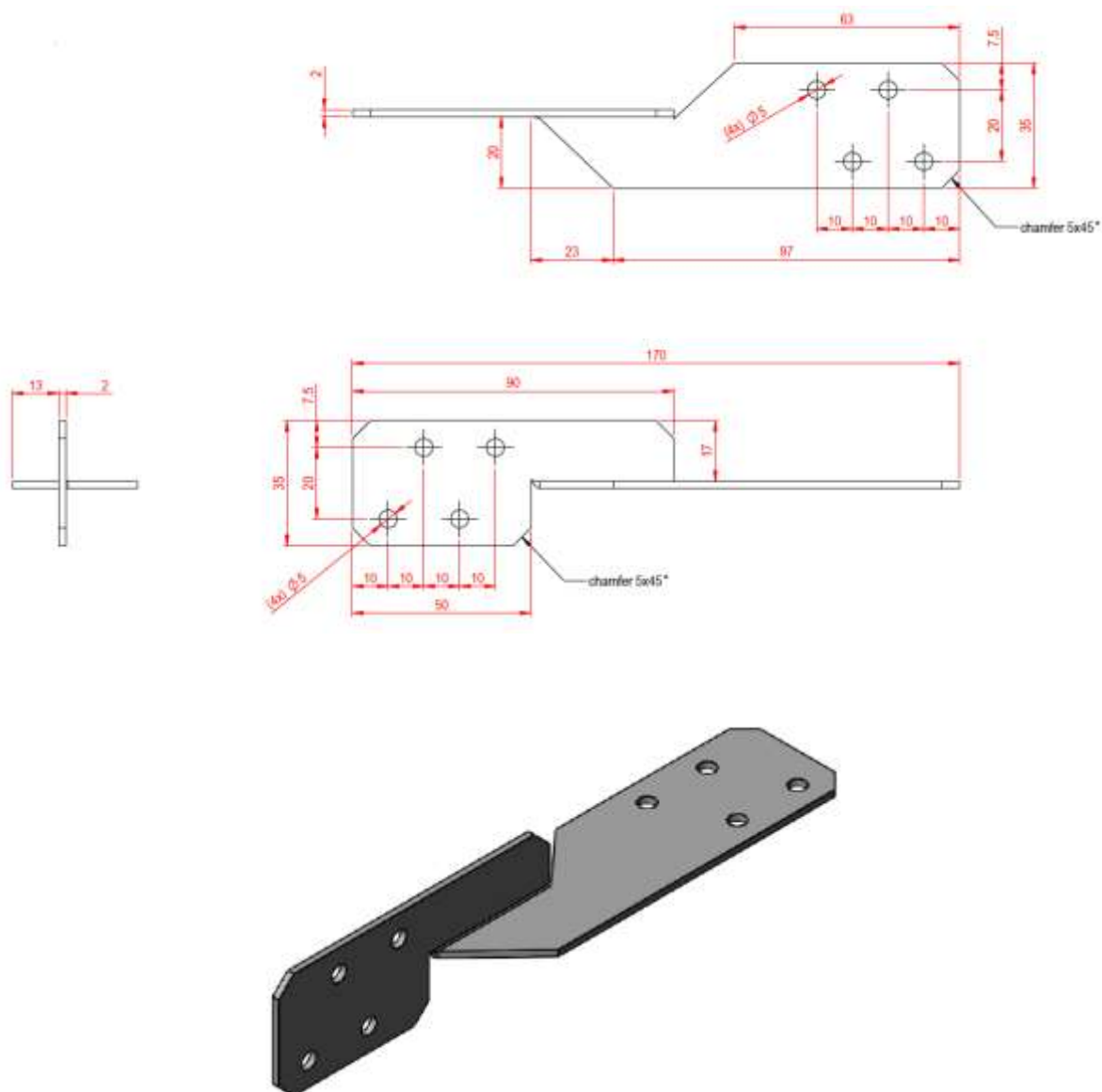
210x30x2 mm

NOVIPRO WOOD CONNECTORS	Annex A91 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates 101908170	



250x35x2 mm

NOVIPRO WOOD CONNECTORS	Annex A92 of European Technical Assessment ETA-26/0169
Three-dimensional nailing plates KIWC-RF-006	

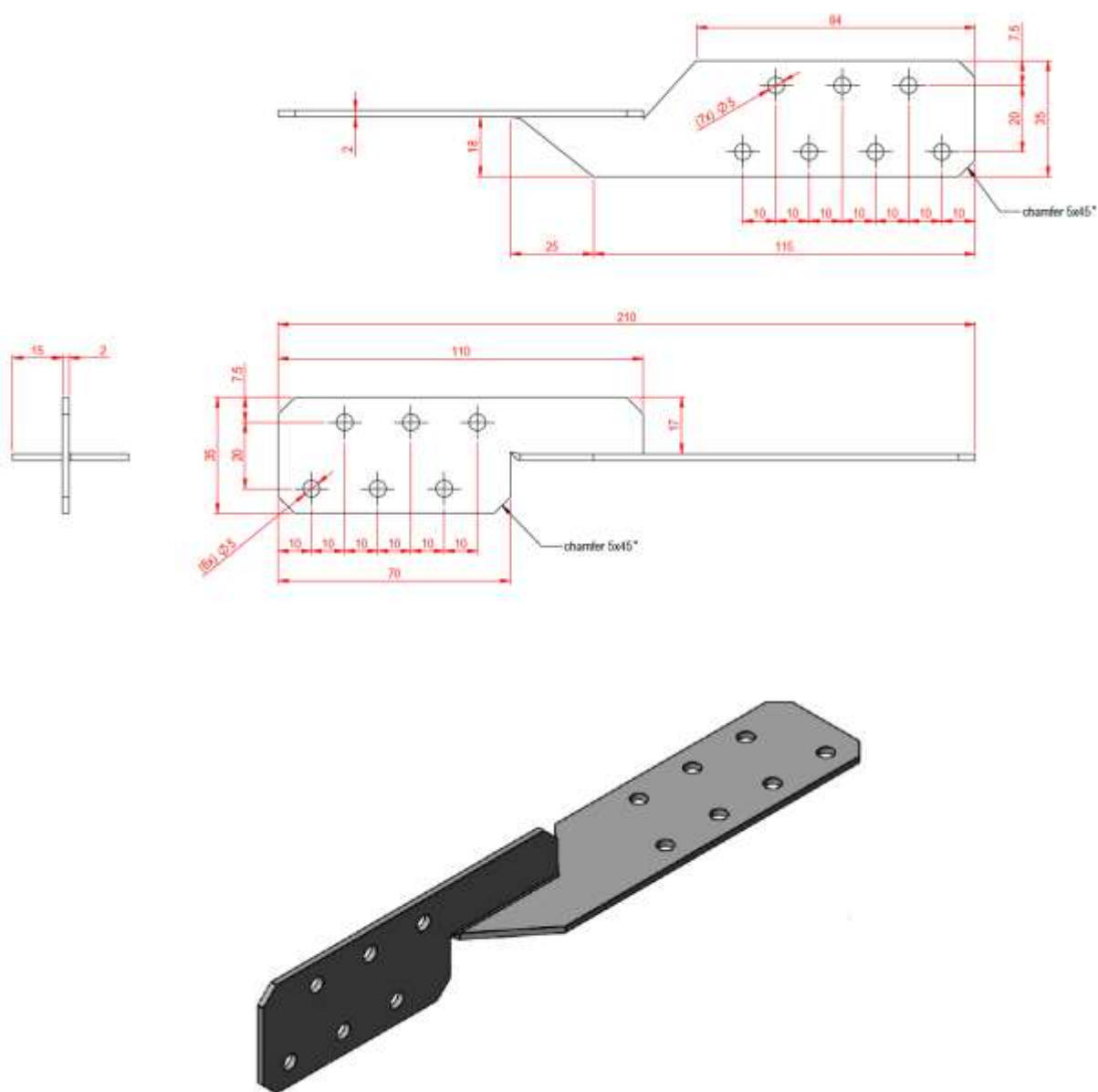


170x35x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-RF-007

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of European
Technical Assessment
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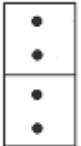
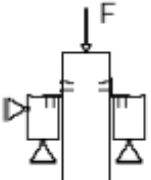
210x35x2 mm

NOVIPRO WOOD CONNECTORS

Three-dimensional nailing plates KIWC-RF-010

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Table B1. Characteristic load-carrying capacity of joints made with NOVIPRO WOOD CONNECTORS

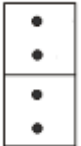
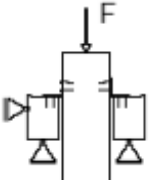
NOVIPRO WOOD CONNECTORS symbol	Nailing*	Characteristic load- carrying capacity, R_k , kN	Static diagram of loading
101908188 101908187 101908194 101908182 101908180 KIWC-AB-006 KIWC-AB-007 KIWC-AB-008 KIWC-AB-009 KIWC-AB-010 KIWC-AB-011 101908193 101908186 101908189 101908175 101908176 KIWC-AB-017 101908174 101908177 101908178 101908179 101908181 101908183 101908184 101908185 101908190 101908191 101908192 KIWC-AB-029 KIWC-AB-030	partial nailing, 2 nails for each shear surface 	1,85	
* Ring shank nails with the diameter $d \geq 4$ mm and the length ≥ 40 mm. Timber strength class at least C24 according to EN 338.			

NOVIPRO WOOD CONNECTORS

Characteristic load-carrying capacity of joints made with three-dimensional nailing plates: KIWC-AB-006 to KIWC-AB-011, KIWC-AB-017, 101908174, 101908177, 101908178, 101908179, 101908181, 101908183, 101908184, 101908185, 101908190, 101908191, 101908192, KIWC-AB-029 and KIWC-AB-030

Annex B1
 of European
 Technical Assessment
 ETA-26/0169

Table B2. Characteristic load-carrying capacity of joints made with NOVIPRO WOOD CONNECTORS

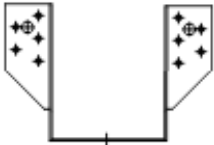
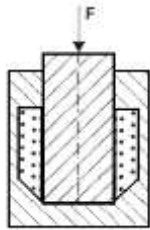
NOVIPRO WOOD CONNECTORS symbol	Nailing*	Characteristic load- carrying capacity, R_k , kN	Static diagram of loading
KIWC-AB-031 KIWC-AB-032 KIWC-AB-033 KIWC-AB-034 KIWC-AB-035 KIWC-AB-036 KIWC-AB-037 KIWC-AB-038 KIWC-AB-039 KIWC-AB-040 KIWC-AB-041 KIWC-AB-042 KIWC-AB-043 KIWC-AB-044 KIWC-AB-045 KIWC-AB-046 KIWC-AB-047 KIWC-AAB-001 KIWC-AAB-002 KIWC-UC-001 KIWC-UC-002 101908140 101908141 KIWC-SF-001 KIWC-SF-002	partial nailing, 2 nails for each shear surface 	1,85	
* Ring shank nails with the diameter $d \geq 4$ mm and the length ≥ 40 mm. Timber strength class at least C24 according to EN 338.			

NOVIPRO WOOD CONNECTORS

Characteristic load-carrying capacity of joints made with
 three-dimensional nailing plates: KIWC-AB-031 to KIWC-AB-047,
 KIWC-AAB-001, KIWC-AAB-002, KIWC-UC-001, KIWC-UC-002,
 101908140, 101908141, KIWC-SF-001 and KIWC-SF-002

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 of European
 Technical Assessment
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Table B3. Characteristic load-carrying capacity of joints made with NOVIPRO WOOD CONNECTORS

NOVIPRO WOOD CONNECTORS symbol	Nailing*	Characteristic load-carrying capacity, R_k , kN	Static diagram of loading
KIWC-JH-001 KIWC-JH-002 KIWC-JH-003 KIWC-JH-004 KIWC-JH-005 101908135 101908133 KIWC-JH-008 KIWC-JH-009 KIWC-JH-010 KIWC-JH-011 KIWC-JH-012 KIWC-JH-013 KIWC-JH-014 101908136 KIWC-JH-016 KIWC-JH-017 KIWC-JH-018 KIWC-JH-019 KIWC-JH-020 KIWC-JH-021 KIWC-JH-022 KIWC-JH-023 KIWC-JH-024 KIWC-JH-025 KIWC-JH-026 101908134 KIWC-JH-028	partial nailing, 5 nails for each shear surface 	5,89	

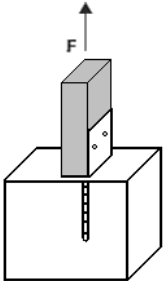
* Ring shank nails with the diameter $d \geq 4$ mm and the length ≥ 40 mm.
 Timber strength class at least C24 according to EN 338.

NOVIPRO WOOD CONNECTORS

Characteristic load-carrying capacity of joints made with three-dimensional nailing plates: KIWC-JH-001 to KIWC-JH-005, 101908135, 101908133, KIWC-JH-008 to KIWC-JH-014, 101908136, KIWC-JH-016 to KIWC-JH-026, 101908134 and KIWC-JH-028

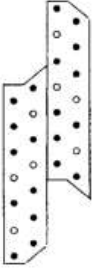
Annex B3
 of European
 Technical Assessment
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Table B4. Characteristic load-carrying capacity of joints made with NOVIPRO WOOD CONNECTORS

NOVIPRO WOOD CONNECTORS symbol	Nailing*	Characteristic load-carrying capacity, R_k , kN	Static diagram of loading
KIWC-RA-01 KIWC-RA-02 KIWC-RA-03 KIWC-RA-04	partial nailing, 2 nails for each share surface 	1,44	
* Ring shank nails with the diameter $d \geq 4$ mm and the length ≥ 40 mm. Timber strength class at least C24 according to EN 338.			

NOVIPRO WOOD CONNECTORS
Characteristic load-carrying capacity of joints made with three-dimensional nailing plates: KIWC-RA-01 to KIWC-RA-04
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 of European
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 ETA-26/0169

Table B5. Characteristic load-carrying capacity of joints made with NOVIPRO WOOD CONNECTORS

NOVIPRO WOOD CONNECTORS symbol	Nailing*	Characteristic load-carrying capacity, R_k , kN	Static diagram of loading
101908172 101908173 101908169 101908170 KIWC-RF-006 KIWC-RF-007 KIWC-RF-010	partial / full nailing, 6 nails for each share surface 	11,65	
* Ring shank nails with the diameter $d \geq 4$ mm and the length ≥ 40 mm. Timber strength class at least C24 according to EN 338.			

NOVIPRO WOOD CONNECTORS

Characteristic load-carrying capacity of joints made with three-dimensional nailing plates: 101908172, 101908173, 101908169, 101908170, KIWC-RF-006, KIWC-RF-007 and KIWC-RF-010

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of European
Technical Assessment
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