



INSTYTUT TECHNIKI BUDOWLANEJ
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NATIONAL TECHNICAL ASSESSMENT ITB-KOT-2018/0249 2nd edition

This National Technical Assessment has been issued in accordance with the Regulation of the Minister of Infrastructure and Construction of 17 November 2016 on national technical assessments (Dz. U. of 2016, item 1968) by the Building Research Institute in Warsaw, upon request of:

**Bella Plast Sp. z o.o. s.k.
ul. Długa 86, 05-075 Warszawa - Wesoła**

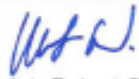
National Technical Assessment ITB-KOT-2017/0249 2nd edition is a positive assessment of the performance of the following construction products for the intended use:

BELLA PLAST Finishing profiles

Expiry date of the National Technical Assessment:

30 September 2025

DYREKTOR
Instytutu Techniki Budowlanej


dr inż. Robert Geryło



Warsaw, 30 September 2020

The document of the National Technical Assessment ITB-KOT-2017/0249 2nd edition contains 54 pages, including 2 Attachments. The National Technical Assessment ITB-KOT-2017/0249 2nd edition replaces the National Technical Assessment ITB-KOT-2017/0249 edition 1. The text of this document may be copied only in its entirety. Publication or dissemination in any other form of fragments of the National Technical Assessment text requires a written agreement with the Building Research Institute.

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1. TECHNICAL DESCRIPTION OF THE PRODUCT

This National Technical Assessment is issued for the BELLA PLAST finishing profiles, manufactured by Bella Plast Sp. z o.o. s.k., ul. Długa 86, 05-075 Warsaw - Wesoła in the production plant of Bella Plast Sp. z o.o., ul. Szczęśliwa 51, 05-074 Długa Kościelna.

Finishing profiles covered by this National Technical Assessment are manufactured from unplasticized poly(vinyl chloride) (PVC-U).

The National Technical Assessment shall cover the following product types:

a) BELLA PLAST finishing profiles for BSO thermal insulation systems (ETICS):

- BP13 (6 mm / 9 mm), BP13 MINI (3 mm / 6 mm), BP13 MIDI (3 mm / 9 mm), BP13 CM (6 mm / 9 mm), BP13 MINI CM (3 mm / 6 mm), BP13 MIDI CM (3 mm / 9 mm), BP 13 MINI U CM (3 mm / 6 mm), BP13 MINI U (3 mm / 6 mm) (according to Figure A1) - movement beads with mesh,
- BP14 LUX, BP14 LUX N, BP14 LUX COK (according to Figure A2) - dripnose beads with fibreglass mesh,
- BP14 ECO PLUS, BP14 PLUS N (according to Figure A3) - dripnose beads with fibreglass mesh,
- BP11 H1, BP11 H2, BP11 H3, BP11 H2N, BP11 H3N, BP11 H5, BP11 H2R, BP11 H3R, BP11 H5R and BP11 HT, according to Figure A4 - rustication strip with fibreglass mesh,
- BP10 - corner bead with fibreglass mesh, BP10 S - archway corner bead with fibreglass mesh (according to Figure A5).
- BP11 H1S, BP11 H2S, BP11 H2NS, BP11 H3S, BP11 H3NS, BP11 H5S, BP11 H2RS, BP11 H3RS, BP11 H5RS i BP11 HTS, (according to Figure A6) - rustication strip with fibreglass mesh,
- BP15 (according to Figure A7) - movement bead with fibreglass mesh,
- BP16 (according to Figure A8) - movement bead with fibreglass mesh,
- BP20 (according to Figure A9) - movement bead, under sill, with fibreglass mesh,
- BP22 (according to Figure A10) - finish bead with fibreglass mesh,
- BP4 S (according to Figure A11) - universal corner bead with fibreglass mesh,
- BP11 ŁH1, BP11 ŁH2, BP11 ŁH3 and BP11 ŁH5, according to Figure A12 - connectors for rustication strip,
- BP11 KH3WEW, (according to Figure A13) - inside corner bead, for rustication strip: BP11 H3, BP11 H3S, BP11 H3NS and BP11 H3N,
- BP11 KH3ZEW, according to Figure A14 - inside corner bead, for rustication strip BP11 H3, BP11 H3S, BP11 H3NS and BP11 H3N,
- BP11 MINI and BP11 MINI MAX, (according to Figure A15) - groove bead with fibreglass mesh,
- BP1S, according to Figure A16 - dripnose bead with fibreglass mesh,
- BP32, according to Figure A17 - ventilation bead with fibreglass mesh,
- BP19 and BP19 CAP, (according to Figure A18) - standing seam aesthetic bead with a plug,

- BP11 H1 CAP, BP11 H2 CAP, BP11 H3 CAP and BP11 H5 CAP, according to Figure A19 - plugs for rustication strip,
 - BP25, according to Figure A20 - masking bead for BP 15,
 - BP11 H2 K ZEW, according to Figure A21 - outside corner bead, for rustication strip BP11 H2R, BP11 H2RS, BP11 H2N and BP11 H2NS,
 - BP11 H2 K WEW, according to Figure A22 - inside corner bead, for rustication strip BP11 H2R, BP11 H2RS, BP11 H2N and BP11 H2NS,
 - BP11 MINI TC PVC, according to Figure A23 - T-shaped connector, for rustication strip BP11 MINI,
 - BP11 H1 TC, according to Figure A24 - T-shaped connector, for rustication strip BP11 H1 and BP11 H1 S,
 - BP11 H2 TC, according to Figure A25 - T-shaped connector, for rustication strip BP11 H2R, BP11 H2 RS, BP11 H2N and BP11 H2NS,
 - BP11 H3 TC, according to Figure A26 - T-shaped connector, for rustication strip BP11 H3R, BP11 H3 RS, BP11 H3N and BP11 H3 NS,
 - BP11 H3 RK, according to Figure A27 - rustication strip, angled,
 - BP11 H3 RSK, according to Figure A28 - rustication strip, angled, with fiberglass mesh,
 - BP11 H2 RK, according to Figure A29 - rustication strip, angled,
 - BP11 H2 RSK, according to Figure A30 - rustication strip, angled, with fiberglass mesh,
- b) BELLA PLAST finishing profiles for plasterboard:
- BP2 (according to Figure A31) - straight corner bead for connecting and strengthening 90° plasterboard connections,
 - BP3 (according to Figure A32) - archway corner bead for connecting and strengthening 90° oval shaped plasterboard connections,
 - BP4 (according to Figure A33) - universal corner bead for connecting and strengthening 0° - 180° plasterboard connections,
 - BP5 (13 mm) (according to Figure A34) - "J" finishing bead for reinforcing and aligning plasterboard edges,
 - BP8 (according to Figure A35) - bullnose corner bead for connecting and strengthening 90° plasterboard connections,
 - BP9 (according to Figure A36) - bullnose archway corner bead for connecting and strengthening 90° plasterboard connections,
 - BP 5 (6.0; 9.5; 12.5 or 15 mm), according to Figure A37 and A38 - "J" finishing bead for reinforcing and aligning plasterboard edges,
- c) BELLA PLAST protective and sealing finishing profiles for treatment from the inside:
- BP12 (6mm / 9mm), BP12 MINI (3mm / 6mm), BP12 MIDI (3mm / 9mm), BP12 CM (6mm / 9mm), BP12 MINI CM (3mm / 6mm), BP12 MIDI CM (3 mm / 9 mm), BP12 MINI U CM (3 mm / 6 mm) and BP12 MINI U (3 mm / 6 mm), according to Figure A39 - movement beads,
 - BP23, BP23 S and BP24, according to Figure A40 - bead with 4 mm ridge for reinforcing and making 90° corners beads.

- d) Cross profiles for groove beads: BP11 MINI SCC, BP11 MINI MAX SCC, BP11 MINI CC, BP11 MINI MAX CC, BP11 H1CC, BP11 H1SCC, BP11 H2CC, BP11 H2SCC, BP11 H3CC, BP11 H3SCC, BP11 H5CC and BP11 H5SCC, BP11 MINI S TC, BP11 MINI MAX TC, BP11 MINI MAX TC, BP11 MINI MAX S TC, BP11 H1 S TC, BP11 H2 S TC, according to Figure A41 and A42,
- e) Finishing profiles for wet plastering:
 - BP17, according to Figure A43 - guiding bead, for interior gypsum and cement plasters,
 - BP 29, according to Figure A44 - aesthetic bead, to cover gaps after window replacement,
- f) BP18 movement bead, according to Figure A45 - for 8 and 10 mm thick ceramic tiles.

The profile arms are perforated with fiberglass mesh strips. The mesh of the flush-mounted profiles is made of fibreglass mesh, connected to the profile by ultrasonic welding and/or assembly, consisting of seaming or welting the fiberglass mesh between PVC layers and/or by gluing with hot-melt adhesive.

The shape and dimensions of the BELLA PLAST finishing elements are shown in Annex A. The standard lengths of the BELLA PLAST finish profiles are 150, 200, 250 and 300 cm. Profiles of other lengths may also be produced, upon agreement between the manufacturer and the customer.

Tolerances in dimensional deviation of profiles meet the coarse class C in accordance with PN-EN 22768-1:1999

The technical description of the materials and components of which the products covered by this National Technical Assessment are made and the quality of their manufacturing are given in Annex B.

2. INTENDED USE OF THE PRODUCT

BELLA PLAST finishing profiles are intended for:

- Strengthening and protecting the edges and corners of walls, finishing window and door openings and for making expansion joints in seamless insulation systems of external walls of buildings BSO (ETICS); products can be used indoors as well as outdoors - in the case profiles, according to section 1. A and D,
- Making and strengthening plasterboard connections; products can be used inside buildings - in the case profiles, according to section 1.B,
- For finishing window openings and strengthening corners, inside buildings - for profiles according to section 1.C.
- making an auxiliary element for guiding the darby during plastering inside buildings - in the case of profiles according to p. 1, e),
- masking the created gap between the window glyph and the window frame, inside the building (e.g. after replacing the window with a smaller one) - in case of profiles according to p. 1, e),
- making the distance between the stoneware tiles and terracotta inside and outside the building - in case of profiles according to p.1, f).

The products covered by this National Technical Assessment may be used in the coating of gypsum, lime and cement plasters and adhesive mortars for thermal insulation materials.

The BELLA PLAST finishing profiles with mesh can be used to insulate external walls of buildings using the seamless method. The mesh, which is part of the BELLA PLAST profiles, must not be used as part of the reinforced layer of the insulation system, but only as part for mounting BELLA PLAST finishing profiles in the insulation system.

The BELLA PLAST finishing profiles should be used in accordance with the detailed design developed for a particular building, taking into account:

- Polish standards and construction regulations, and in particular the Regulation of the Minister of Infrastructure of 12 April 2002 on the technical conditions to be met by buildings and their location (Dz. U. of 2019, Item 1065),
- provisions of this National Technical Assessment,
- instructions for using the products prepared by the manufacturer and delivered to recipients.

3. PERFORMANCE OF THE PRODUCT AND METHODS USED FOR THEIR ASSESSMENT

3.1. Product performance

3.1.1. Straightness. The deviation from straightness of the profiles is not greater than 0.5 mm - in the case of profiles with a length less than or equal to 2500 mm and in the case of profiles with a length greater than 2500 mm it is not greater than 1.0 mm.

3.1.2. Vicat softening temperature of PVC-U products. Softening temperature according to Vicata profiles is not lower than 70 °C (heating medium - silicone oil).

3.1.3. Charpy impact strength of PVC-U products. The impact strength of profiles using the Charpy method is not less than 3.5 kJ/m².

3.2. Methods used to assess performance

3.2.1. Straightness. Verification of straightness is performed in accordance with PN-EN 13658-1:2009 standard.

3.2.2. Vicat softening point The Vicat softening temperature is tested according to PN-EN ISO 306: 2014, using the B50 method.

3.2.3. Charpy impact strength. The Charpy impact testing is performed in accordance with PN-EN ISO 179-1:2010, using the method 1eA, on samples with single notch, cut from elements of products made of unplasticized poly(vinyl chloride) (PVC-U), along the extrusion direction.

4. PACKAGING, TRANSPORT, STORAGE AND LABELLING OF THE PRODUCT

Products covered by this National Technical Assessment should be supplied in the manufacturer's original packaging and stored and transported in such a way as to ensure that their technical characteristics remain unchanged.

The method of labelling products with the construction mark should be in accordance with the Regulation of the Minister of Infrastructure and Construction of 17 November 2016 on the methods of declaring the performance of construction products and the method of marking them with a construction product label (Dz. U. of 2016, item 1966, as amended);

The labelling of a product with a construction mark shall be accompanied by the following information:

- the last two digits of the year in which the construction mark was first placed on a construction product,
- the name and address of the manufacturer's registered office or an identification mark allowing the name and address of the manufacturer to be clearly identified,
- name and type designation of the construction product,
- number and year of the national technical assessment according to which the performance has been declared (ITB-KOT-2017/0249 2nd edition),
- number of the national declaration of performance,
- level or class of the declared performance,
- the website address of the manufacturer, at which the national declaration of performance is made available.

A safety data sheet and/or information on hazardous substances contained in a construction product referred to in Article 31 or 33 of Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and establishing a European Chemicals Agency should be provided or made available, as appropriate, together with the national declaration of performance.

Furthermore, the labelling of a construction product, being a hazardous mixture according to the REACH Regulation, should comply with the requirements of Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP), amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006.

5. PERFORMANCE CONSTANCY ASSESSMENT AND VERIFICATION

5.1. National system of assessment and verification of performance constancy

In accordance with the Regulation of the Minister of Infrastructure and Construction of 17 November 2016 on methods of declaring the conformity of construction products and method of marking them with a construction product label (Dz. U. of 2016, item 1966, as amended) the system 4 of assessment and verification of constancy of performance shall apply.

5.2. Type test

The performance characteristics assessed in point 3 constitute a product-type examination until there are changes in raw materials, components, production line or plant.

5.3. Factory production control

The manufacturer shall have a system of factory production control in place. All elements of the system, requirements and provisions adopted by the manufacturer shall be documented in a systematic manner in the form of written policies and procedures, including records of the tests conducted. The factory production control should be adapted to the production technology and ensure that the declared performance of the product is maintained in series production.

The factory production control includes specification and verification of raw materials and components, control and in-process tests and control tests (according to point 5.4), carried out by the manufacturer in accordance with a prescribed test plan and according to the rules and procedures laid down in the factory production control documentation.

Production control results should be systematically recorded. The records in the register shall certify that the products meet the criteria for assessment and verification of performance constancy. Individual products or batches of products and the related manufacturing details must be completely identifiable and repeatable.

5.4. Control tests

5.4.1. Program of testing. The program of testing includes:

- a) Current tests,
- b) Periodic tests.

5.4.2. Current tests. Current tests include checking:

- a) Shape and dimensions,
- b) Performance quality,
- c) Straightness.

5.4.3. Periodic tests. Periodic tests include checking the Vicat softening point.

5.5. Frequency of testing

Current tests should be performed in accordance with a prescribed test plan, but not less frequently than every batch of products. The batch size should be specified in the documentation of factory production control.

Periodic testing should be performed at least once every three years.

6. NOTICE

6.1. The National Technical Assessment ITB-KOT-2017/0249 2nd edition replaces the National Technical Assessment ITB-KOT-2017/0249 edition 1.

6.2. The National Technical Assessment ITB-KOT-2017/0249 2nd edition is a positive assessment of the performance characteristics of those essential properties of BELLA PLAST finishing profiles which, according to the intended use, resulting from the provisions of the Assessment, have an

impact on the fulfilment of the essential requirements by the construction facilities in which the product will be used.

6.3. The National Technical Assessment ITB-KOT-2017/0249 2nd edition is not a document authorising to mark a construction product with a construction label.

According to the Act of 16 April 2004 on construction products (Dz. U. of 2020, item 215, as amended) the products covered by this National Technical Assessment may be placed on the market or made available on the national market, if the manufacturer has assessed and verified the constancy of performance, has drawn up a National Declaration of Performance in accordance with the National Technical Assessment ITB-KOT-2017/0249 2nd edition and has marked the products with a construction label, in accordance with the applicable regulations.

6.4. The National Technical Assessment ITB-KOT-2017/0249 2nd edition does not infringe the rights resulting from the provisions on industrial property protection, in particular the Act of 30 June 2000. - Industrial Property Law (Dz. U., 2020, item 286, as amended); Ensuring these rights is the responsibility of the beneficiaries of this ITB National Technical Assessment.

6.5. The ITB, by issuing the National Technical Assessment, is not responsible for any infringement of exclusive or acquired rights.

6.6. The National Technical Assessment does not relieve the manufacturer of from responsibility for proper quality of products, and building contractors from liability for their proper use.

6.7. The validity of the National Technical Assessment may be extended for further periods, not exceeding 5 years.

7. LIST OF DOCUMENTS USED IN THE PROCEEDINGS

7.1. Reports, test reports, assessments and classifications

- 1) LZM00-01363/20/Z00NZM. Test report for BELLA PLAST profiles, Department of Building Materials Engineering ITB, Warsaw, 2020
- 2) LZM00-01271/17/Z00NZM. Test report for BELLA PLAST profiles, Department of Building Materials Engineering ITB, Warsaw, 2017
- 3) 1134/13/Z00NK. Research and technical opinion relating to the BELLA PLAST finishing profiles, Department of Construction and Building Elements Building Research Institute, Warsaw, 2013.
- 4) LK00-1134/13/Z00NK. Test report for BELLA PLAST finishing profiles, Department of Construction and Building Elements Building Research Institute, Warsaw, 2013.

7.2. Standards and related documents

- | | |
|--------------------|---|
| PN-EN 22768-1:1999 | <i>General tolerances. Tolerances of linear and angular dimensions without individual tolerance indications</i> |
| PN-EN 14716:2008 | <i>Stretch ceilings. Requirements and test methods.</i> |

PN-EN 13658-1:2009 *Metal meshes, corner beads and concealed beads. Definitions, requirements and test methods. Part 1: Exterior plaster*

PN-EN ISO 179-1:2010 *Plastics. Determination of Charpy impact strength. Part 1: Non-instrumental impact test*

PN-EN ISO 1183-1:2013 *Plastics. Methods for determining the density of non-porous plastics. Part 1: Immersion method, liquid pycnometer method and titration method*

PN-EN ISO 306:2014 *Plastics. Thermoplastics. Determination of Vicat softening point (VST)*

ITB-KOT-2017/0249 *BELLA PLAST finishing profiles*

Issue 1

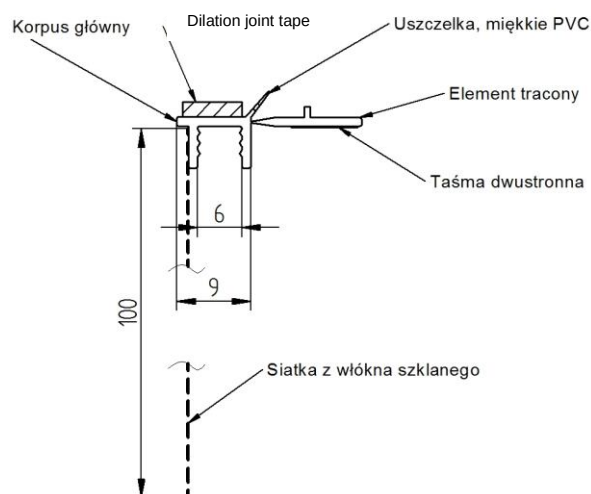
ATTACHMENTS:

Annex A. The shape and dimensions of the BELLA PLAST finishing profiles

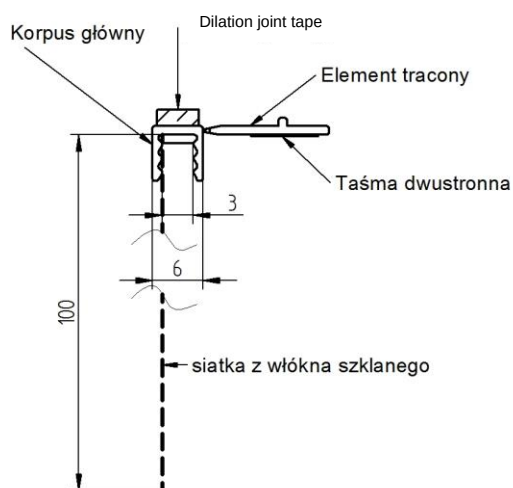
Annex B. Materials and components as well as quality of the BELLA PLAST finishing profiles.....48

Appendix A.

a)



b)



c)

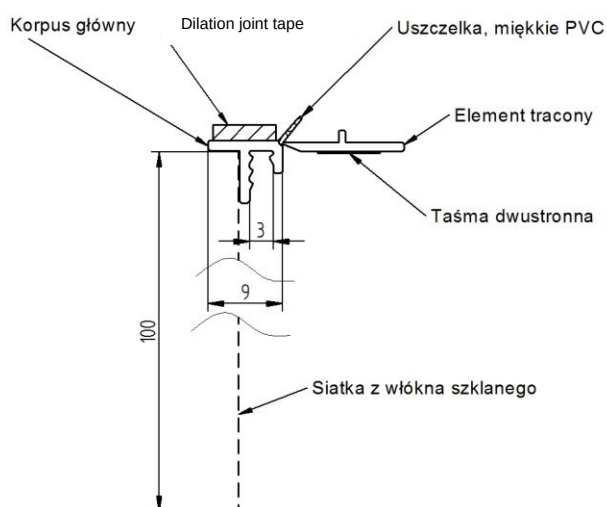
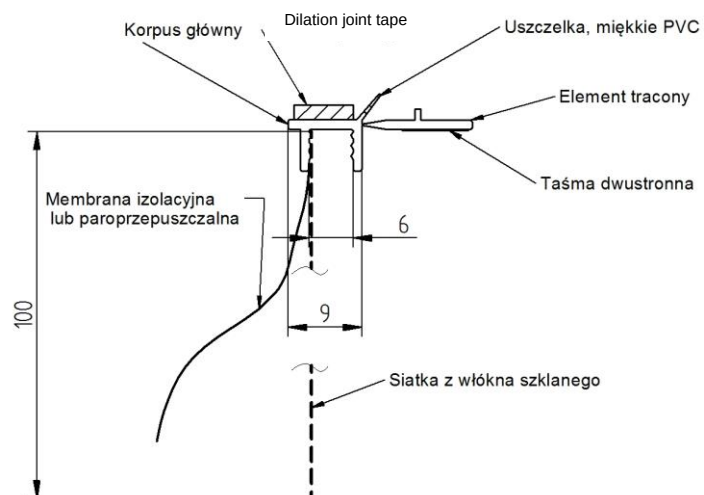
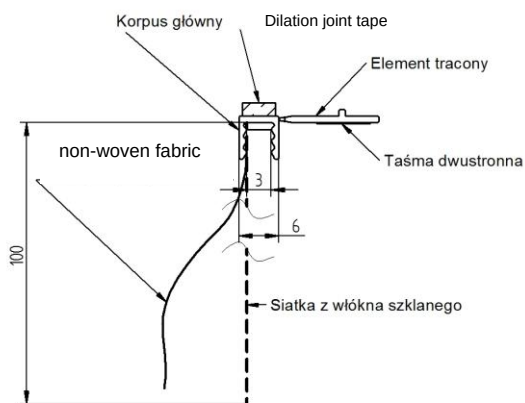


Figure A1. Beads BP13 (6 mm / 9 mm) (a), BP13 MINI (3 mm / 6 mm) (b), BP13 MIDI (3 mm / 9 mm) (c)

d)



e)



f)

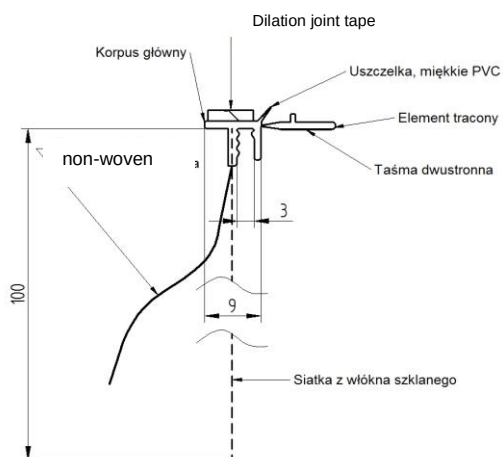
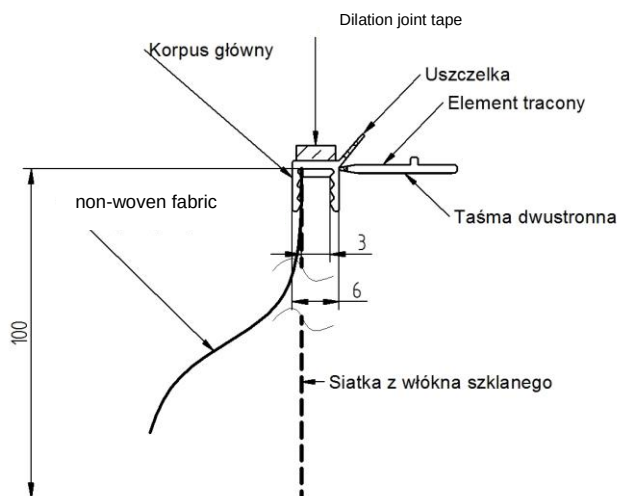


Figure A1. Beads BP13 CM (6 mm / 9 mm) (d), BP13 MINI CM (3 mm / 6 mm) (e), BP13 MIDI CM (3 mm / 9 mm) (f), cont.

g)



h)

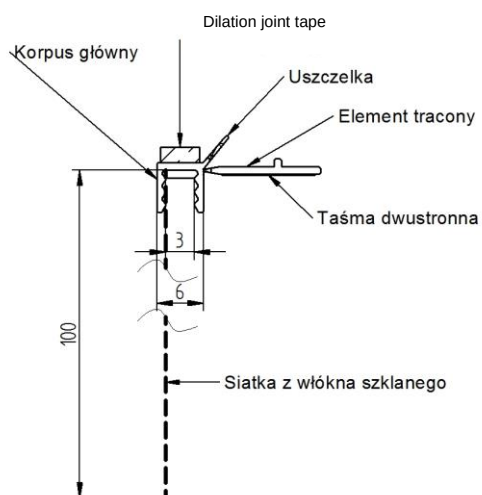
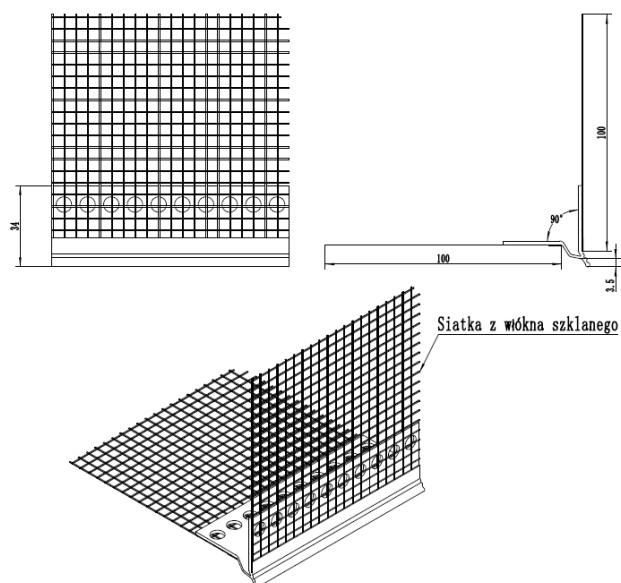
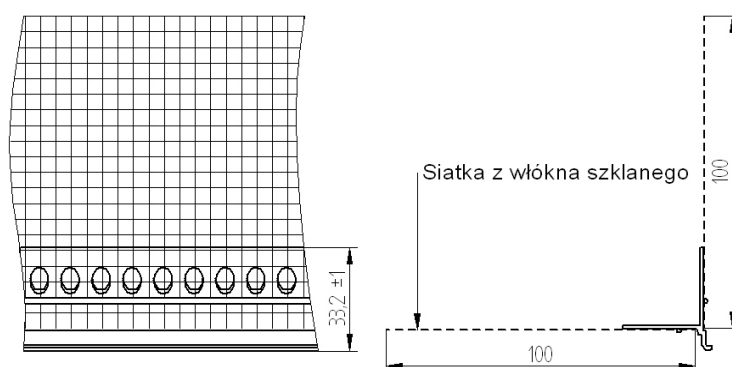


Figure A1. Beads BP 13 MINI U CM (3 mm / 6 mm) (g), BP13 MINI U (3 mm / 6 mm) (h),cont.

a)



b)



c)

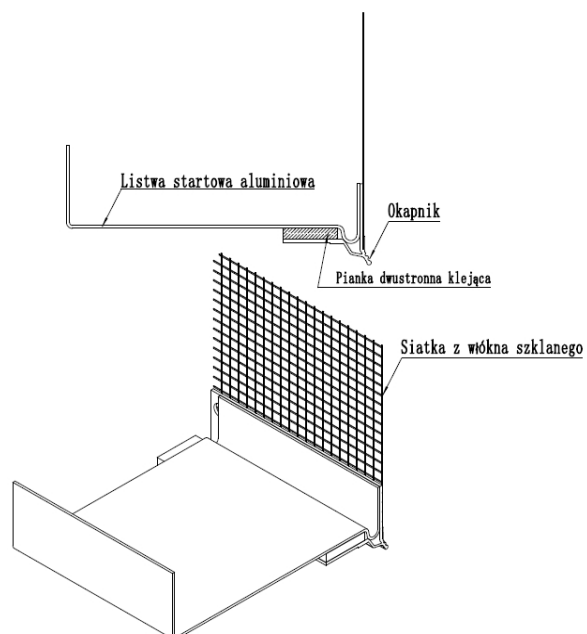
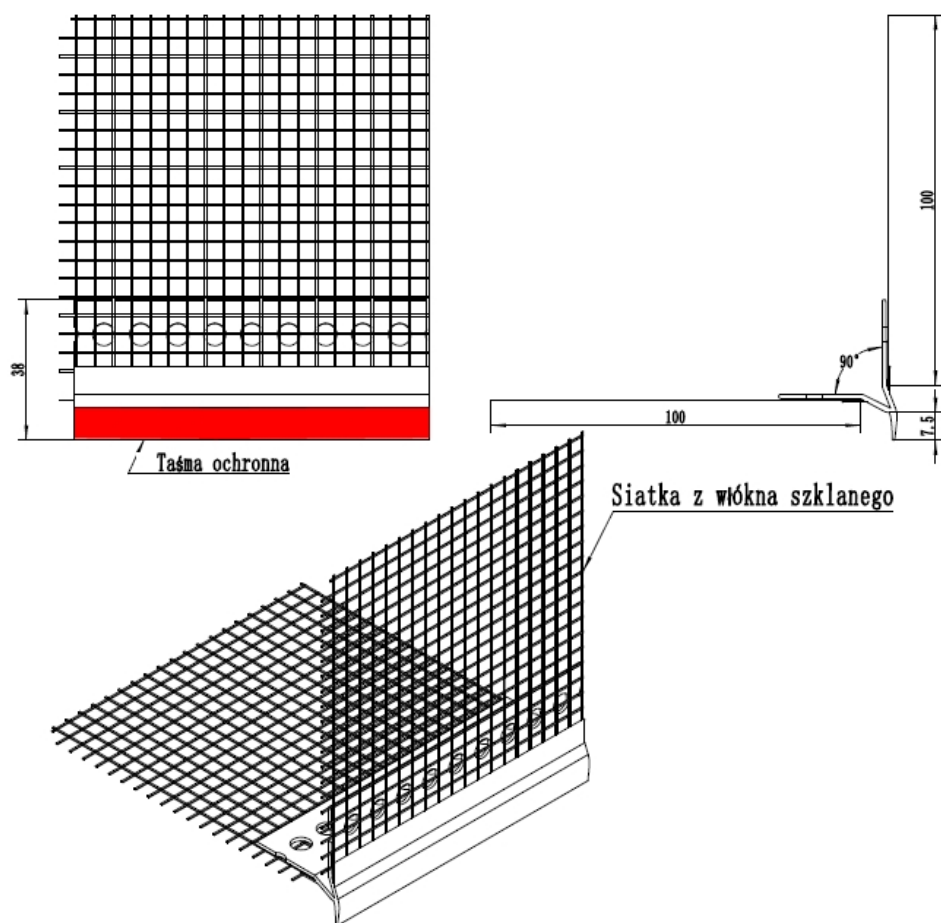


Figure A2. Beads BP14 LUX (a), BP14 LUX N (b) and BP14 LUX COK (c)

a)



b)

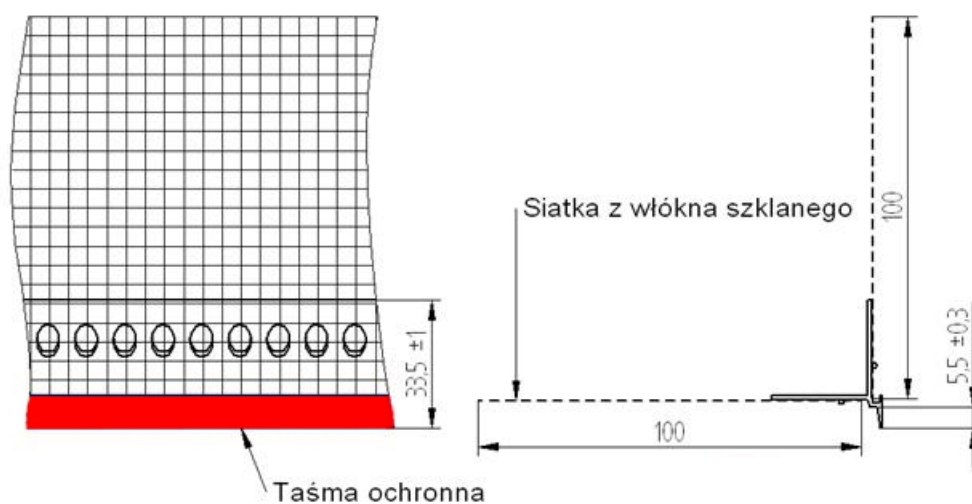
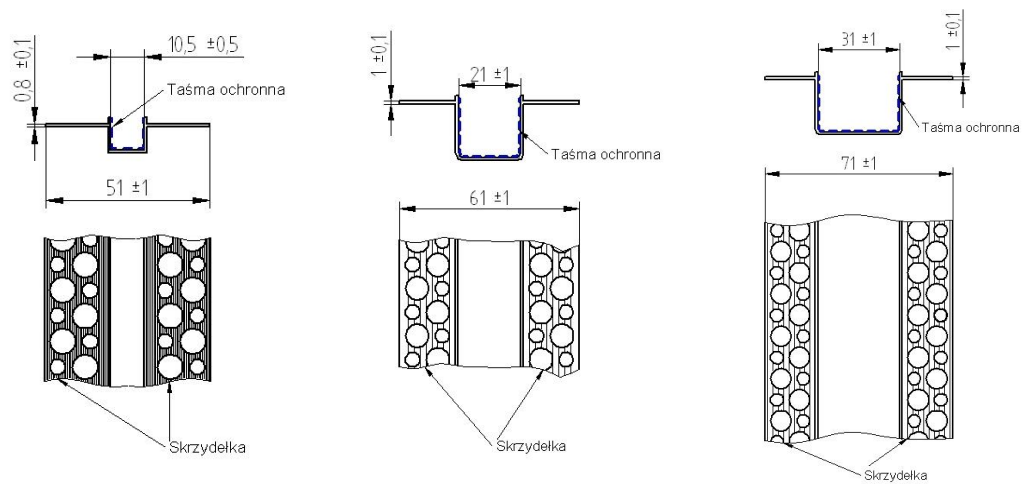
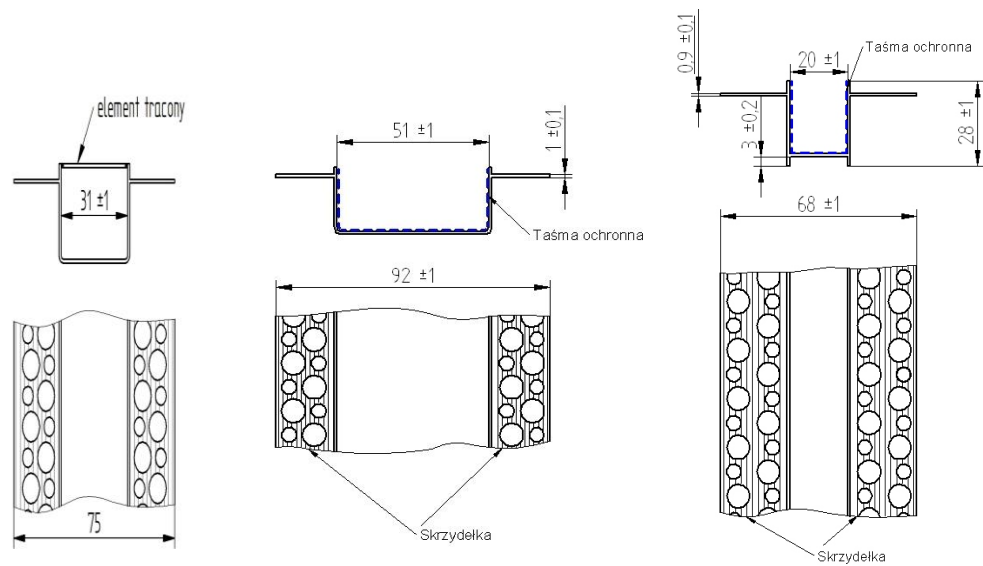


Figure A3. Beads BP14 ECO PLUS (a) and BP14 PLUS N (b)
(colour of the protective tape - according to the manufacturer's template; the protective tape (foil) protects during installation the bead parts visible after mounting)

a) b) c)



d) e) f)



g) h)

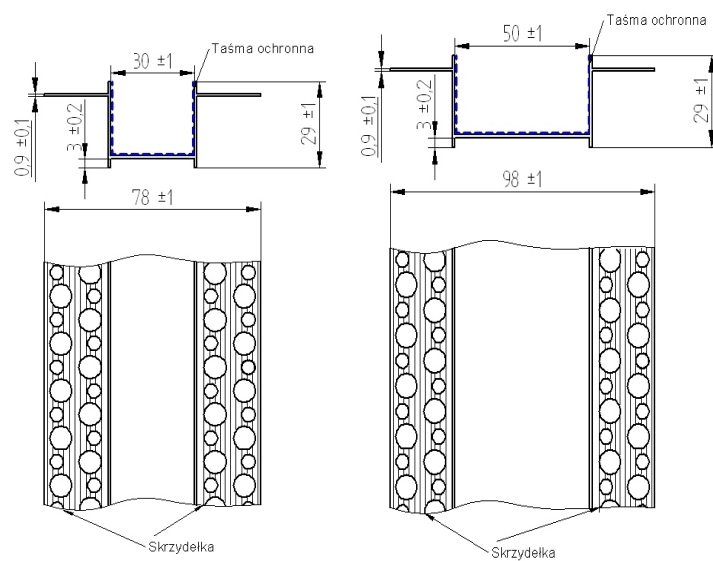


Figure A4. Beads BP11 H1(a), BP11 H2 (b), BP11 H3 (c), BP11 H3N (d), BP11 H5 (e), BP11 H2R (f), BP11 H3R (g) and BP11 H5R (h), (protective tape - as in Figure A3)

i) j)

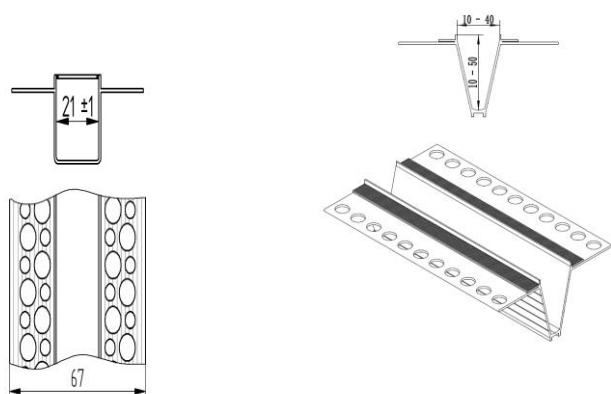
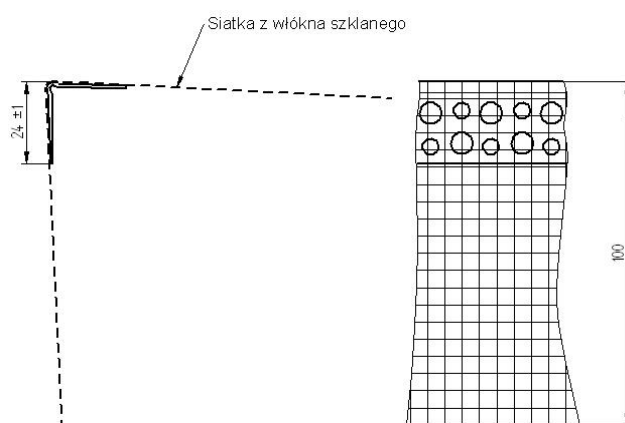


Figure A4. Beads BP11 H2N (i), BP11 HT (j), (protective tape - as in Figure A3), cont.

a)



b)

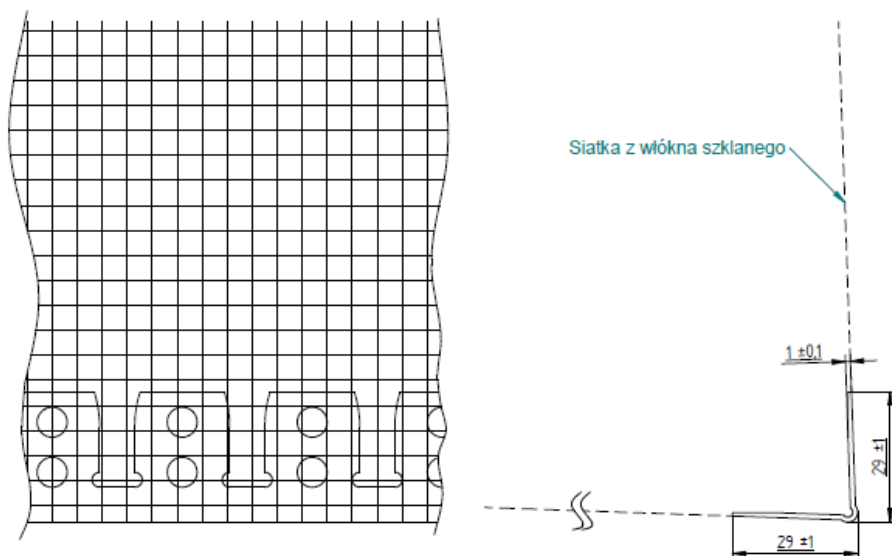
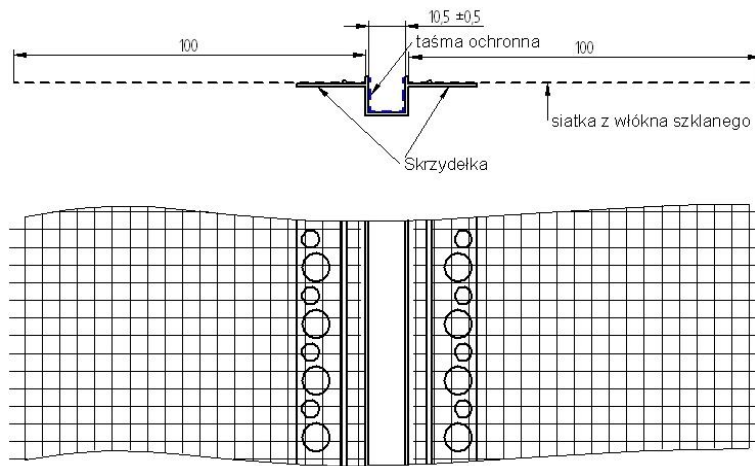
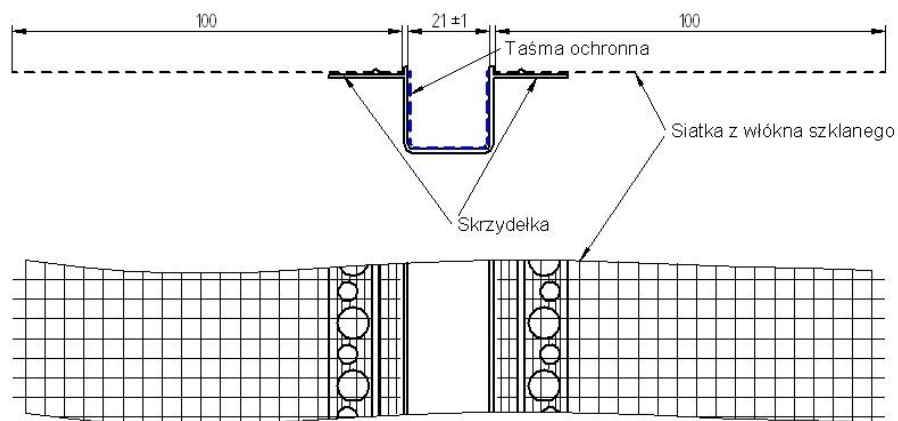


Figure A5. Corner beam with fiberglass mesh: BP10 (a) and the archway corner bead BP10 S (b), (protective tape - as in Figure A3)

a)



b)



c)

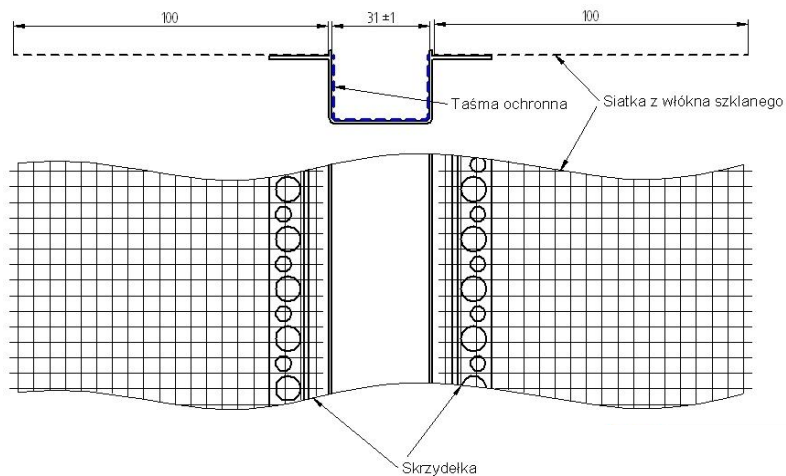
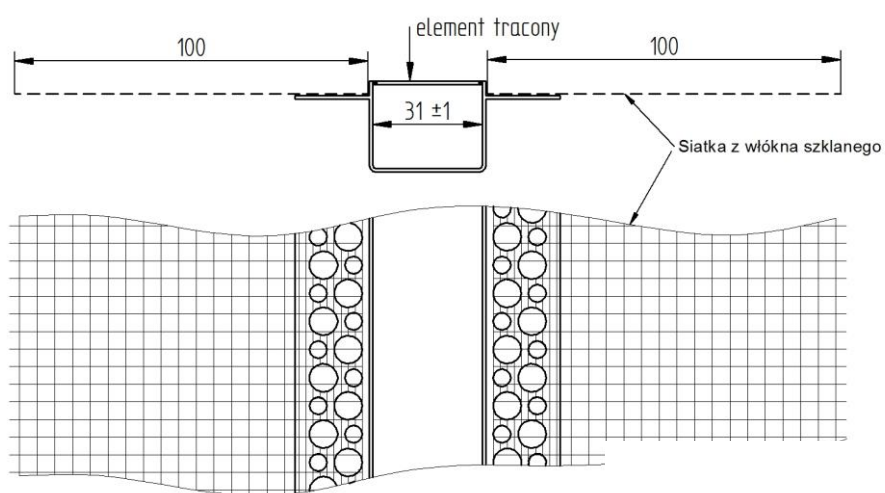
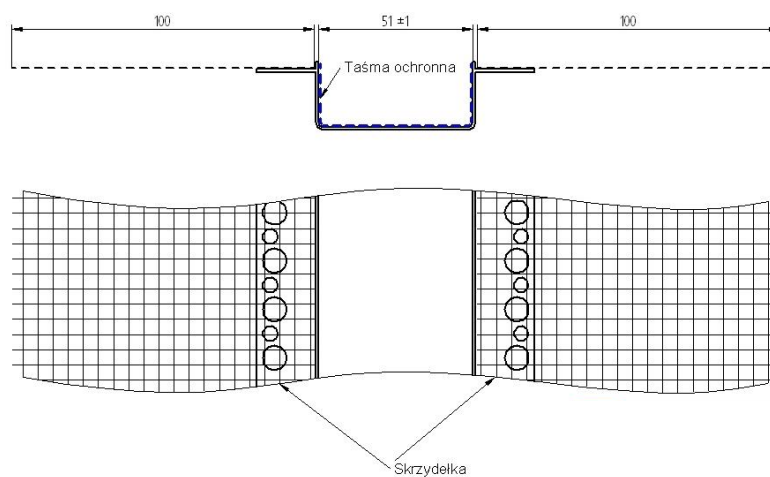


Figure A6. Beads BP11 H1S (a), BP11 H2S (b), BP11 H3S (c),
(protective tape - as in Figure A3)

d)



e)



f)

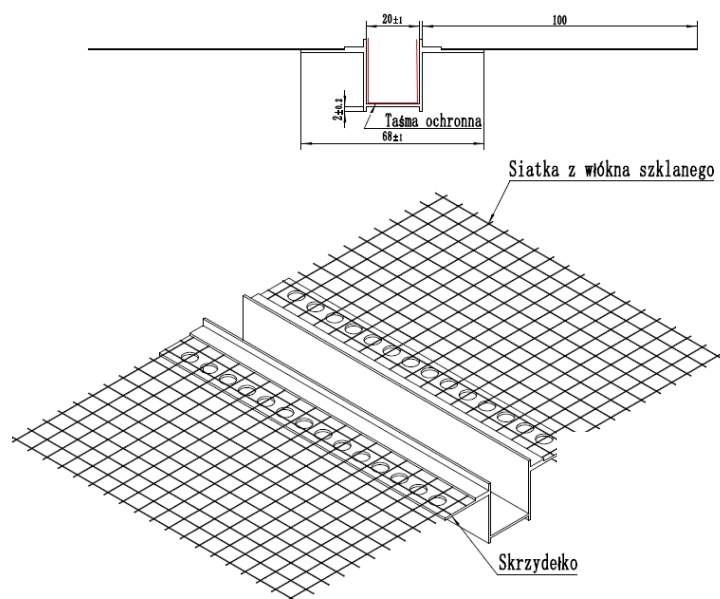
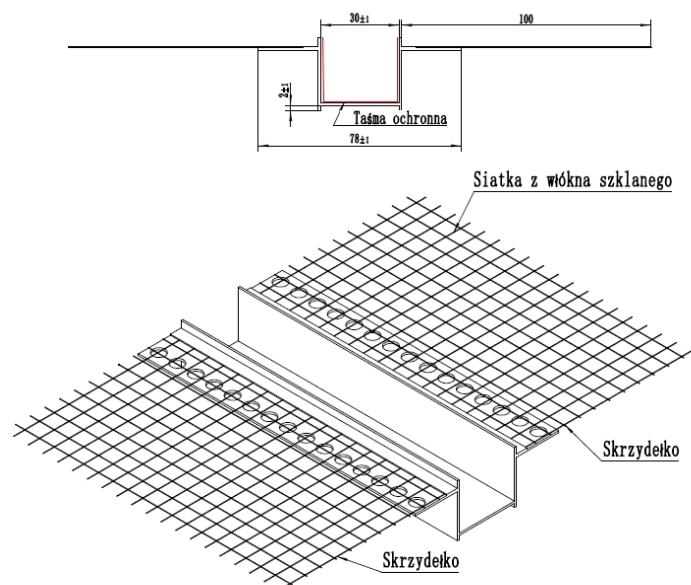


Figure A6. Beads BP11 H3NS (d), BP11 H5S (e), BP11 H2RS (f), cont.
(protective tape - as in Figure A3)

g)



h)

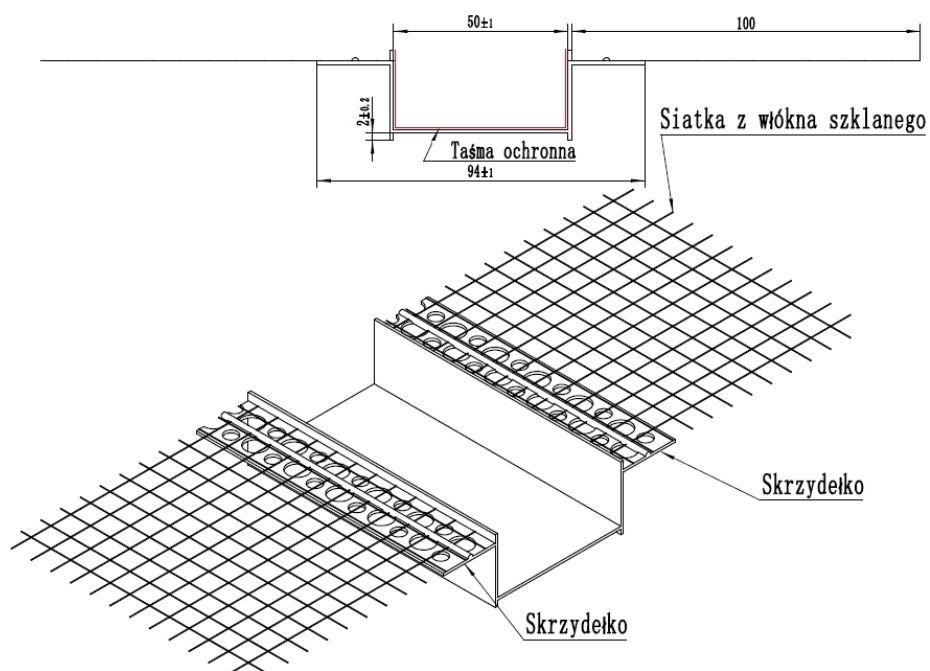
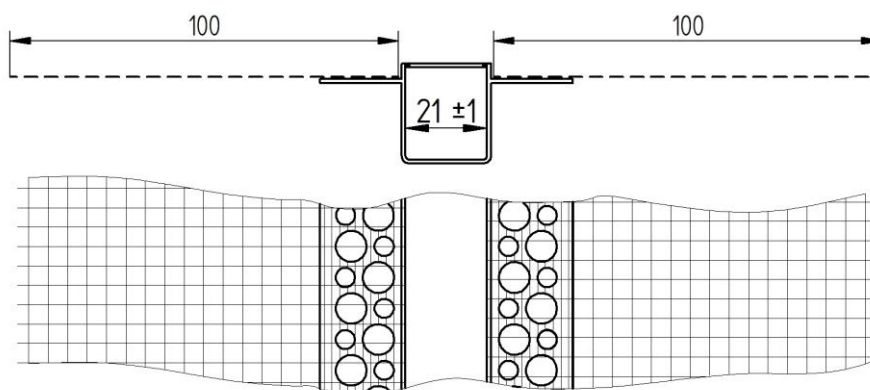


Figure A6. Beads BP11 H3RS (g) and BP11 H5RS (h), cont.
(protective tape - as in Figure A3)

i)



j)

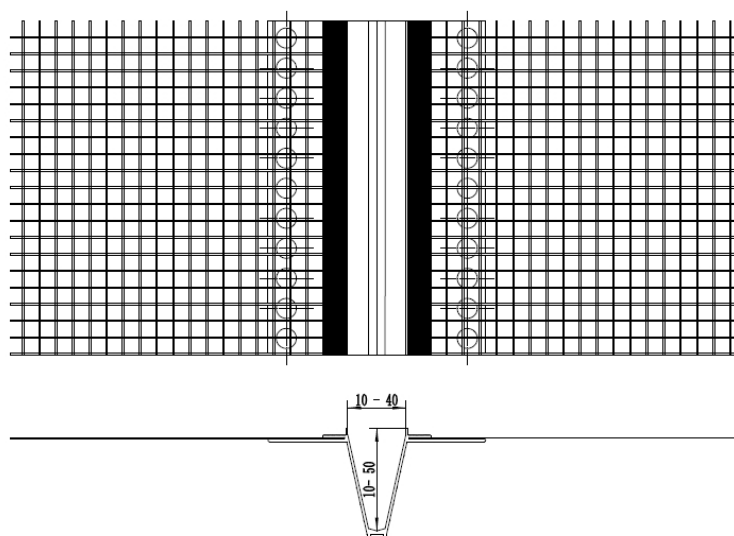


Figure A6. Beads BP11 H2 NS (i) and BP11 HTS (j), cont.
(protective tape - as in Figure A3)

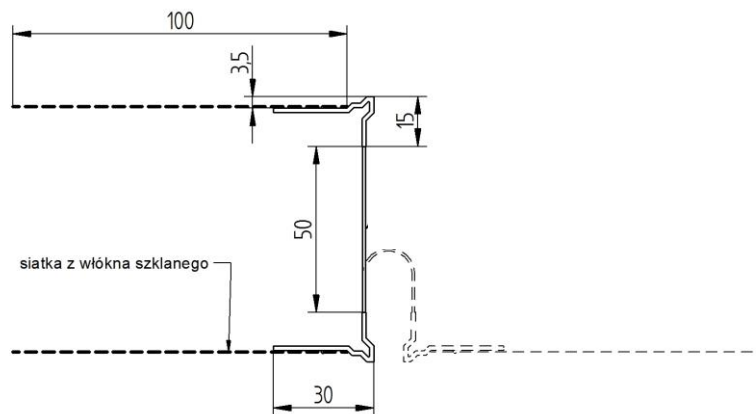


Figure A7. BP15 bead

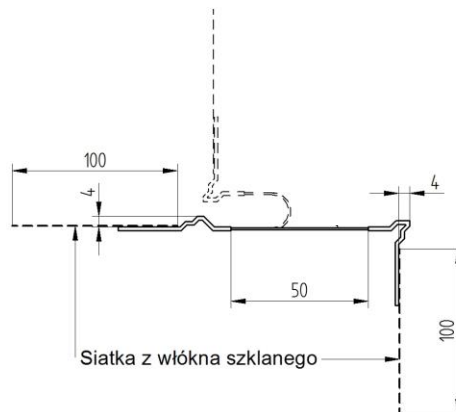


Figure A8. BP16 bead

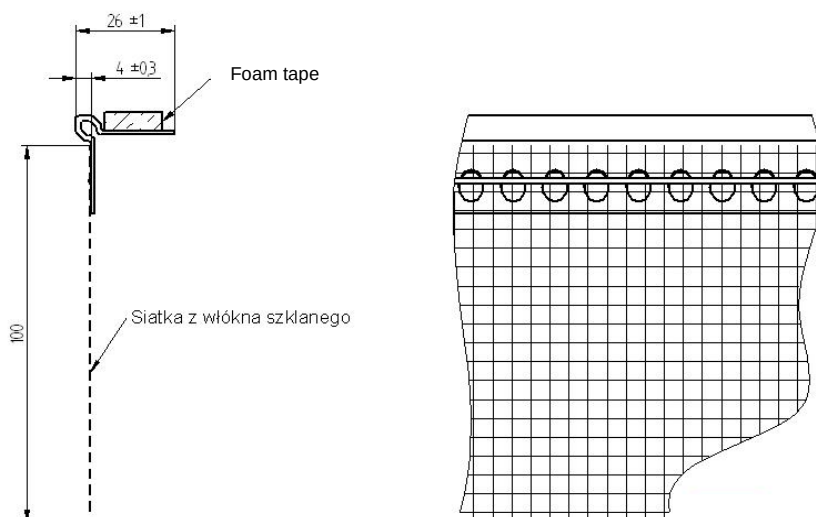


Figure A9. BP20 bead

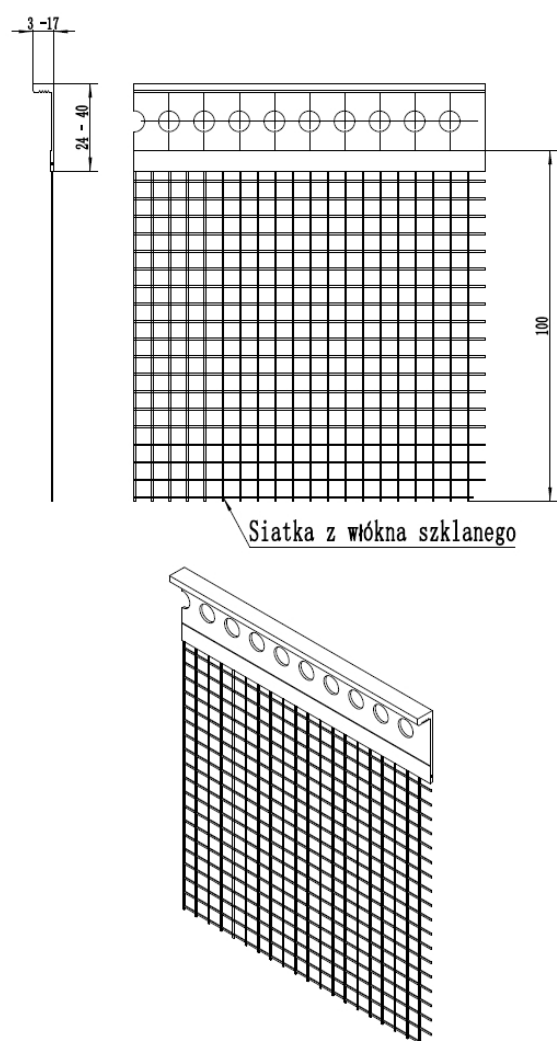


Figure A10. BP22 bead

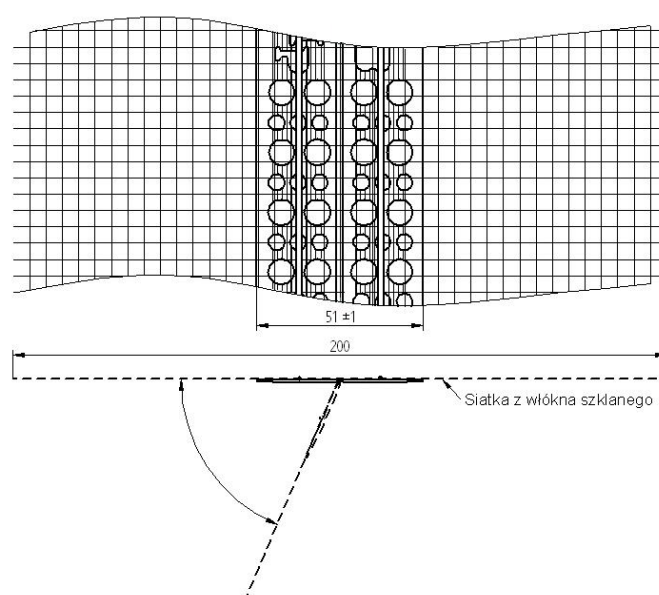
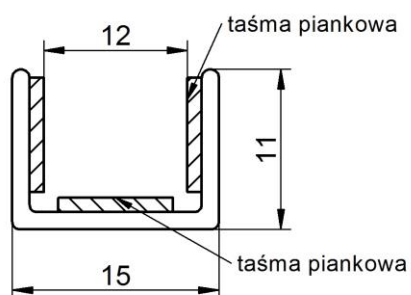


Figure A11. Corner bead BP4 S

a)



b)

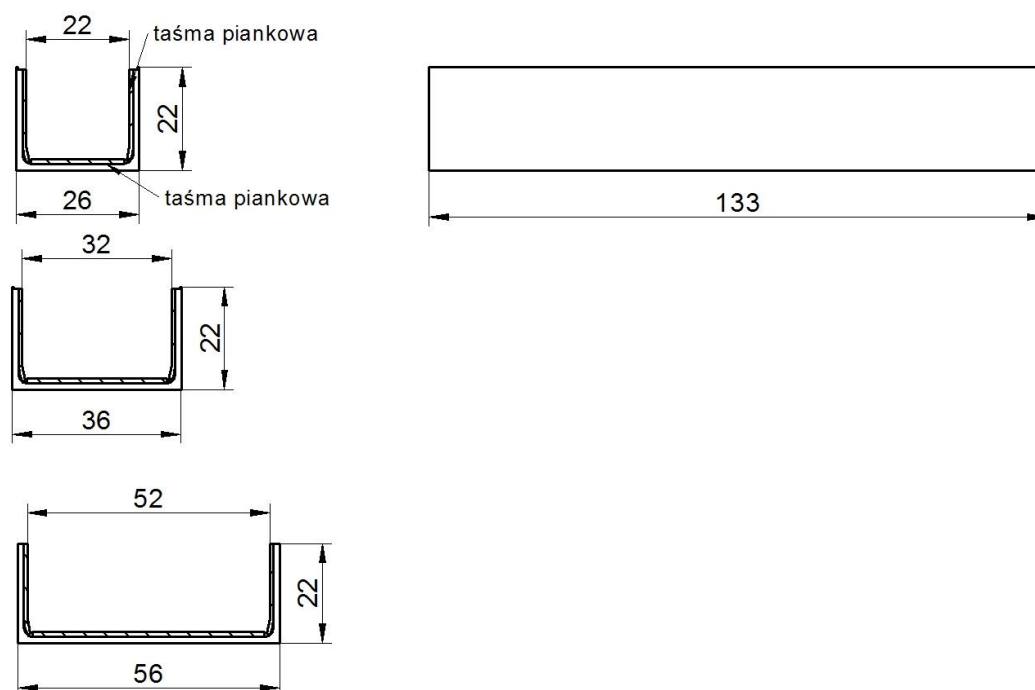


Figure A12. Connectors BP11 ŁH1 (a) and BP11 ŁH2, BP11 ŁH3 and BP11 ŁH5 (b)

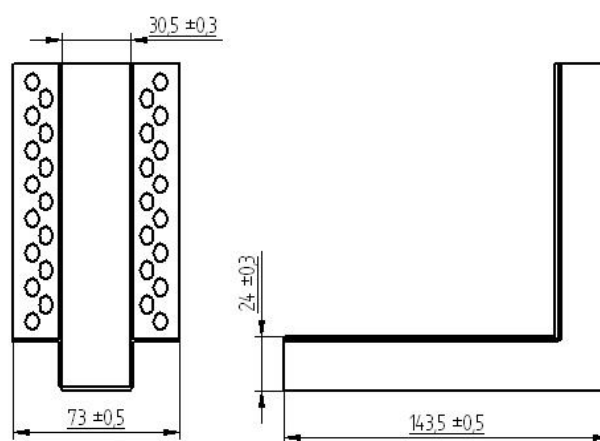


Figure A13. Corner bead BP11 KH3WEW

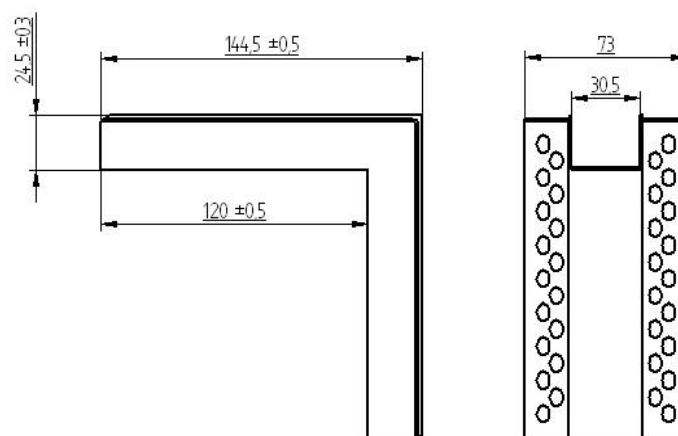
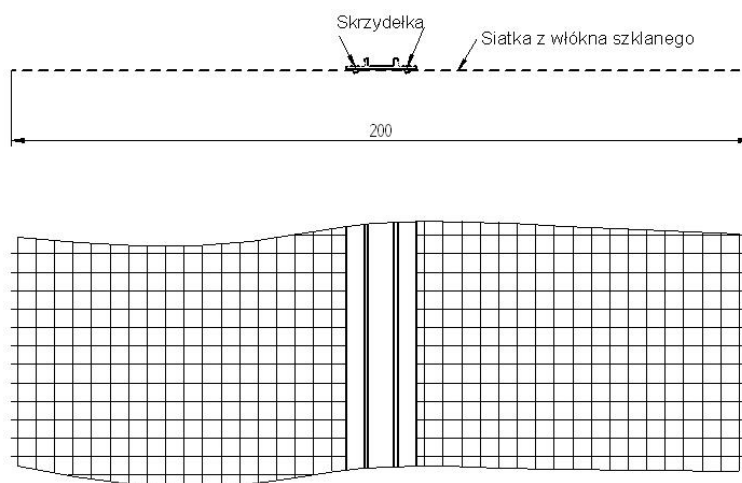


Figure A14. Corner bead BP11 KH3ZEW

a)



b)

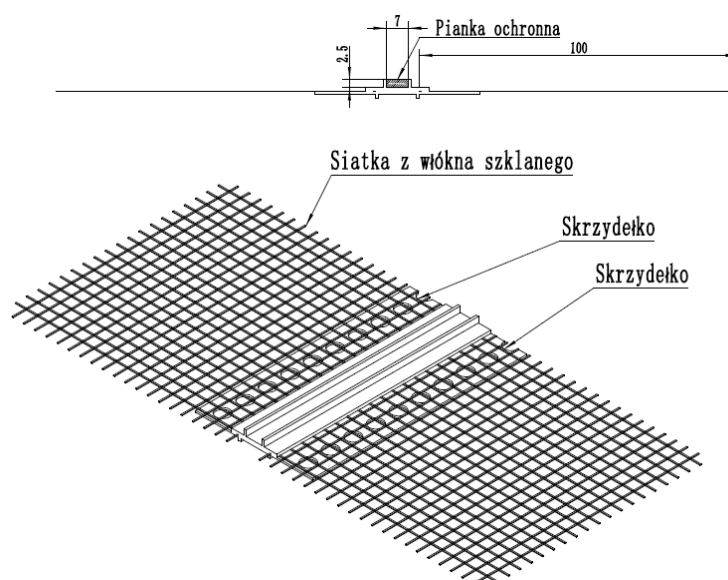


Figure A15. Beads BP11 MINI (a) and BP11 MINI MAX (b)

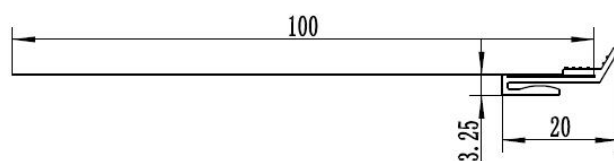


Figure A16. BP1S bead

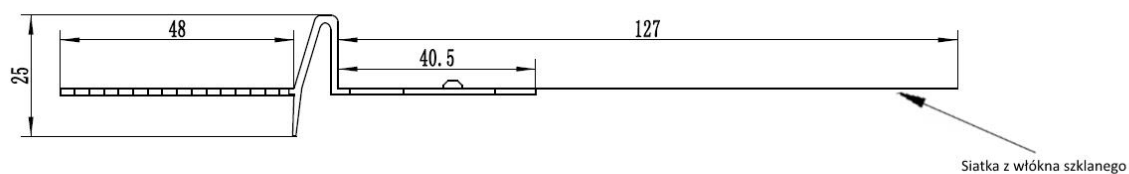


Figure A17. BP32 bead

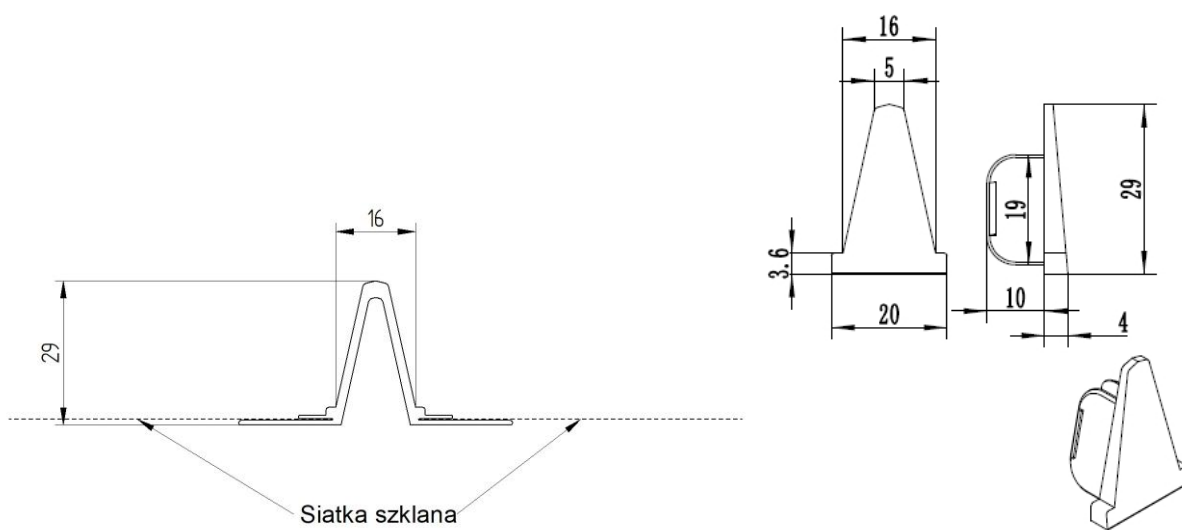
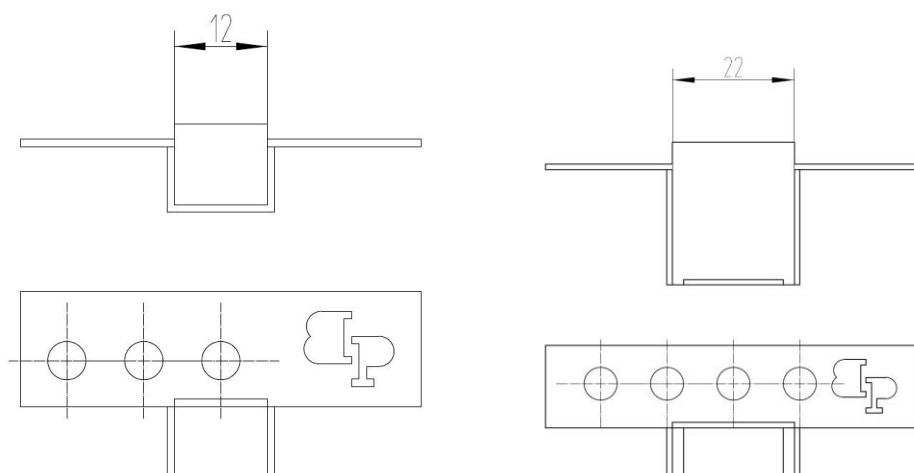


Figure A18. standing seam aesthetic bead with a BP19 plug

a) b)



c)

d)

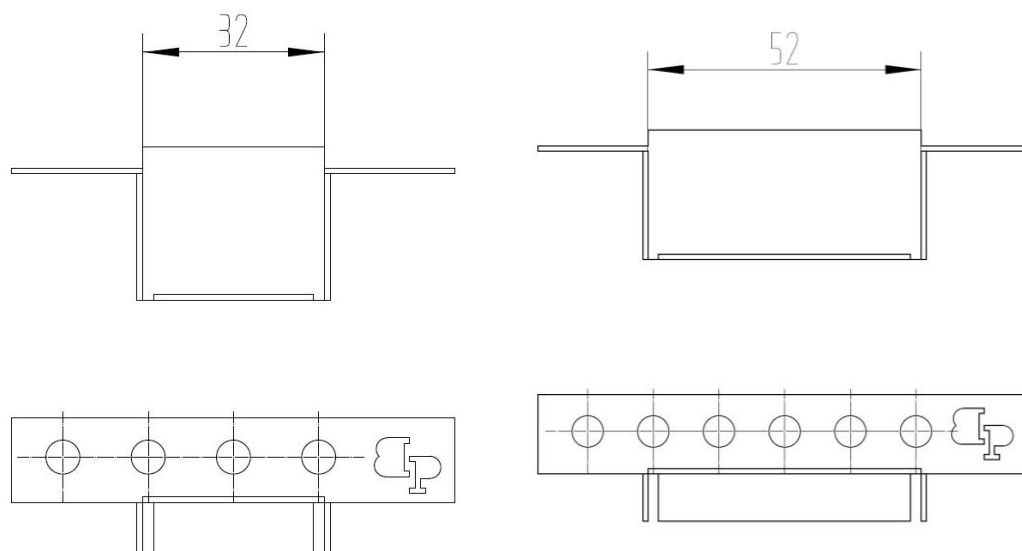


Figure A19. Plugs BP11 H1 CAP (a), BP11 H2 CAP (b), BP11 H3 CAP (c) and BP11 H5 CAP (d)

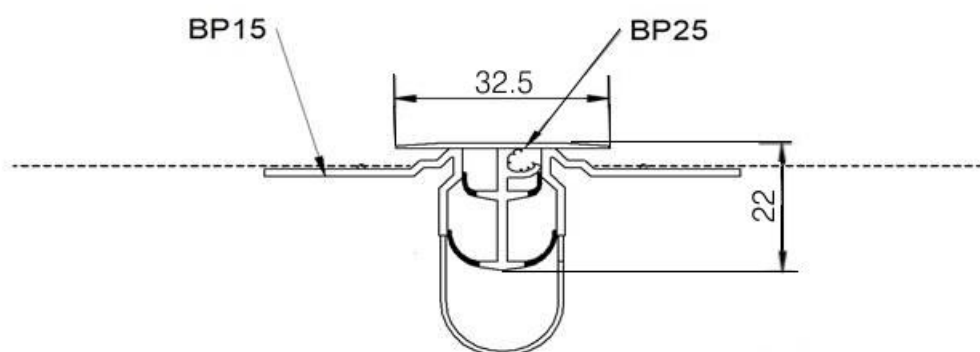


Figure A20. BP25 bead

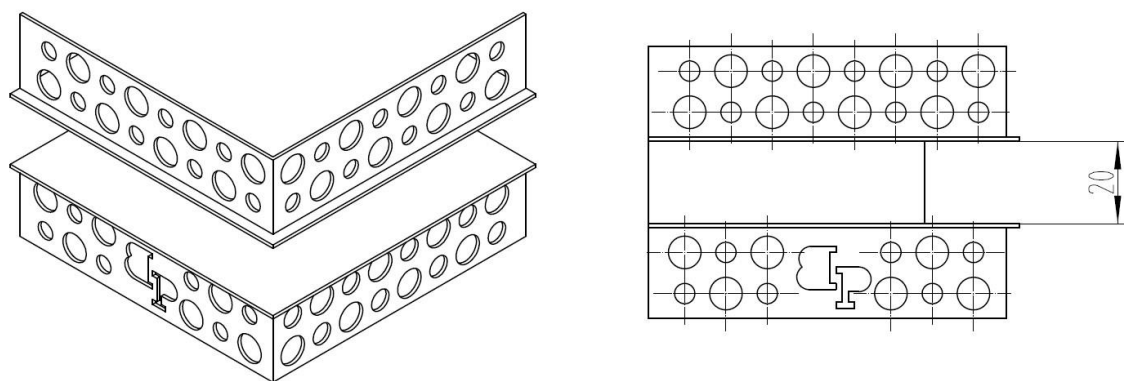


Figure A21. Corner beam BP11 H2 K ZEW

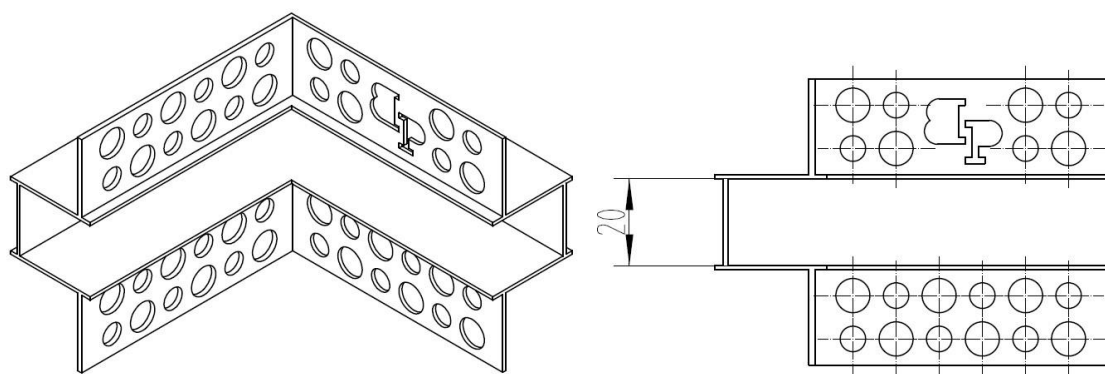


Figure A22. Corner beam BP11 H2 K WEW

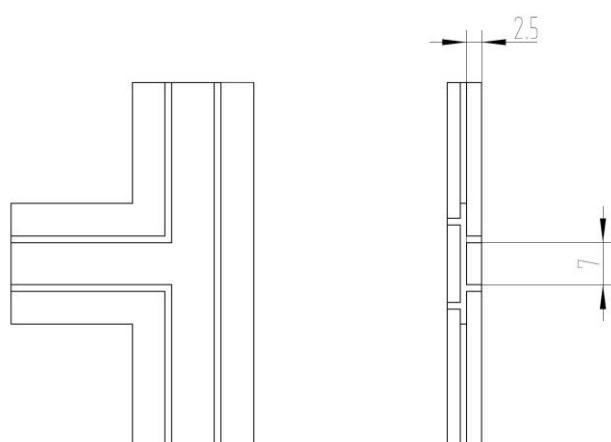


Figure A23. BP11 MINI TC connector

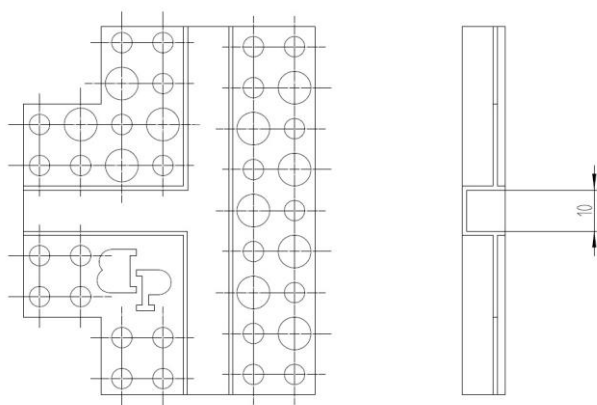


Figure A24. BP11 H1 TC connector

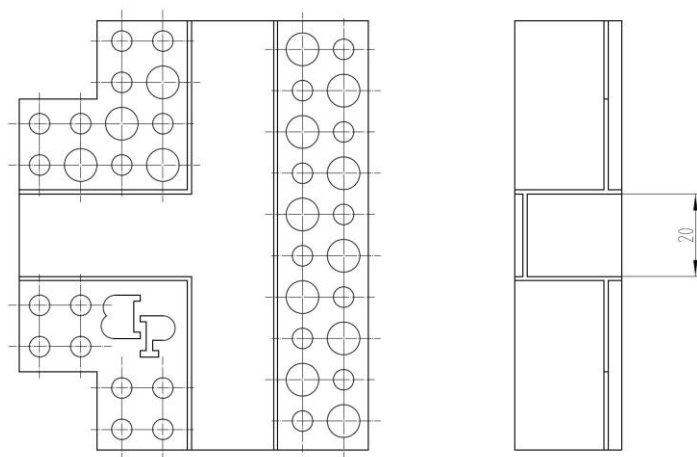


Figure A25. BP11 H2 TC connector

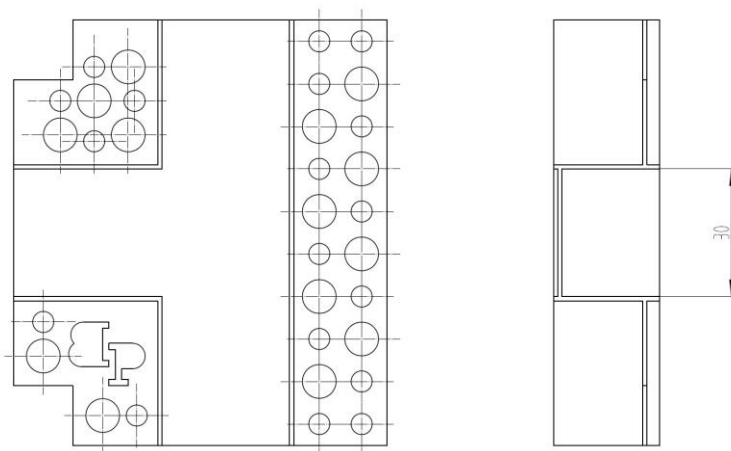


Figure A26. BP11 H3 TC connector

Flexible joint
soft PVC

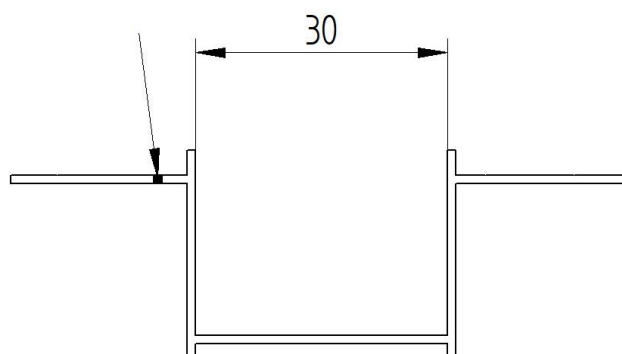


Figure A27. Strip BP11 H3 RK

Elastyczny przegub
Miękkie PVC

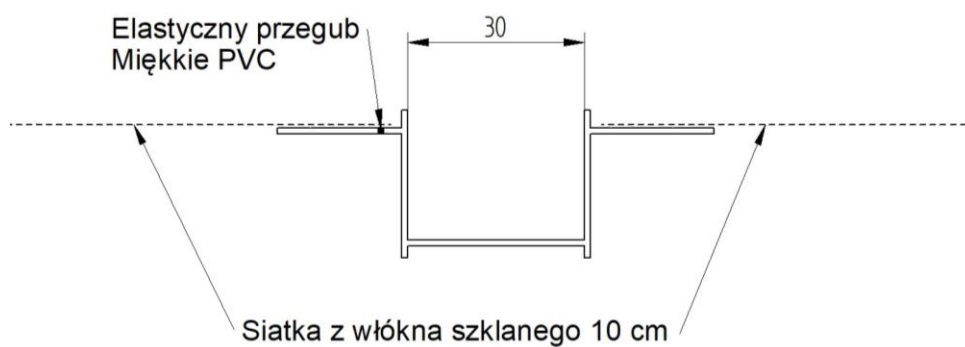


Figure A28. Strip BP11 H3 RSK

Flexible joint
soft PVC

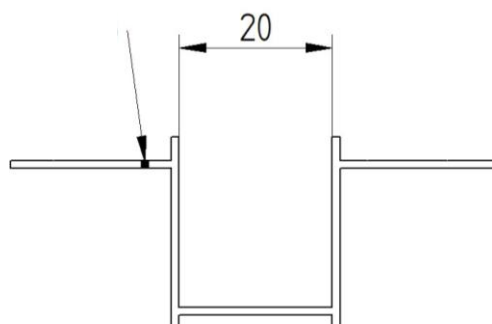


Figure A29. Strip BP11 H2 RK

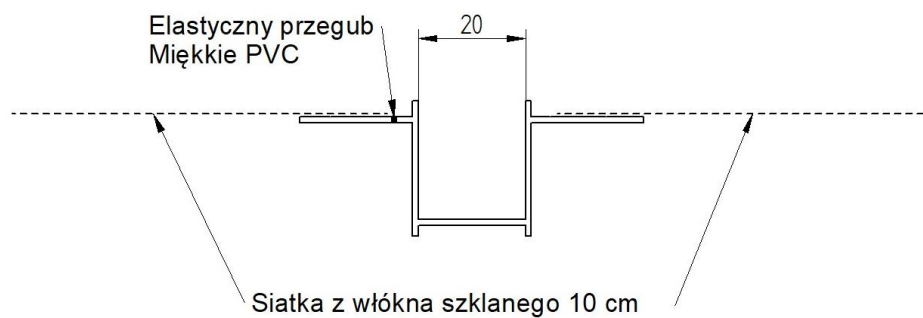


Figure A30. Strip BP11 H2 RSK

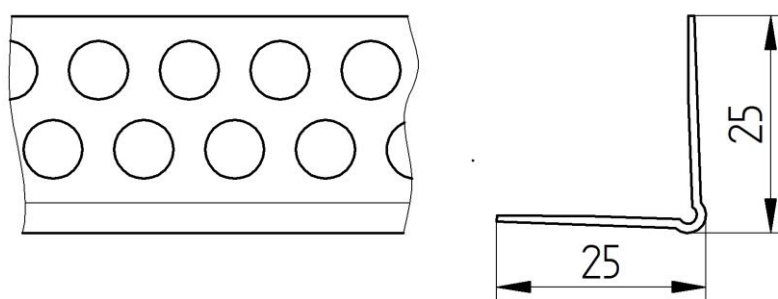


Figure A31. Corner bead BP2

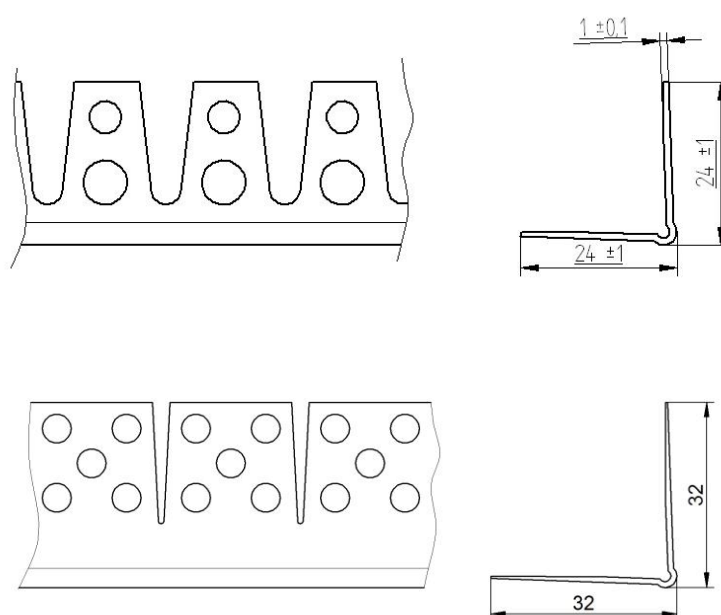


Figure A32. Corner bead BP3

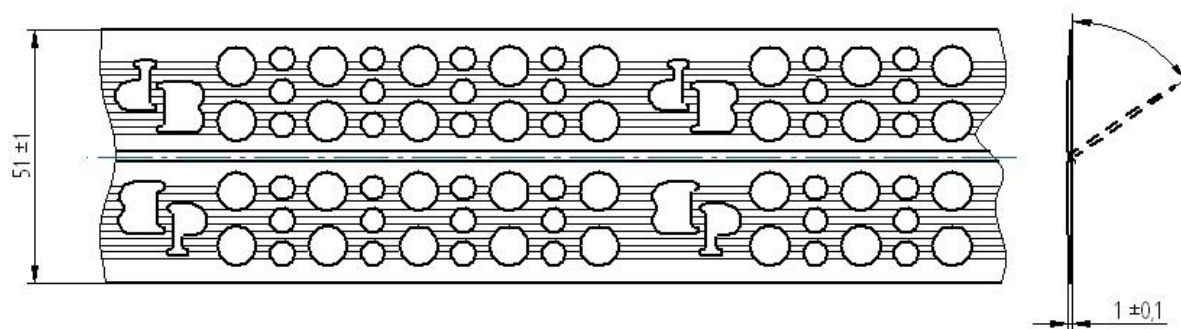


Figure A33. Corner bead BP4

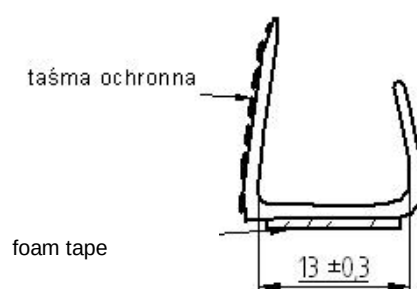


Figure A34. Strip BP5

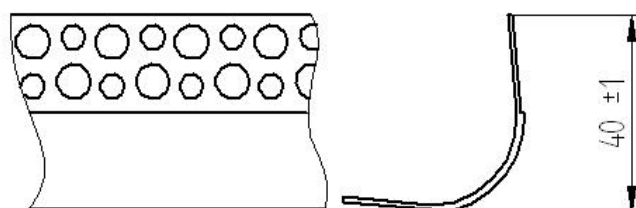


Figure A35. Corner bead BP8



Figure A36. Corner bead BP9

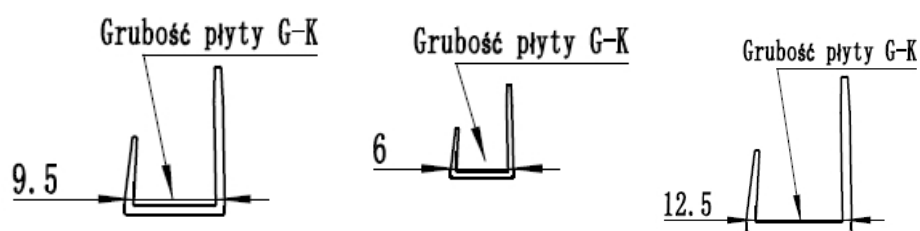


Figure A37. Strip BP5 9.5mm

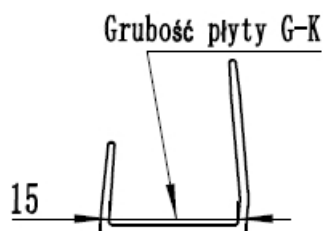
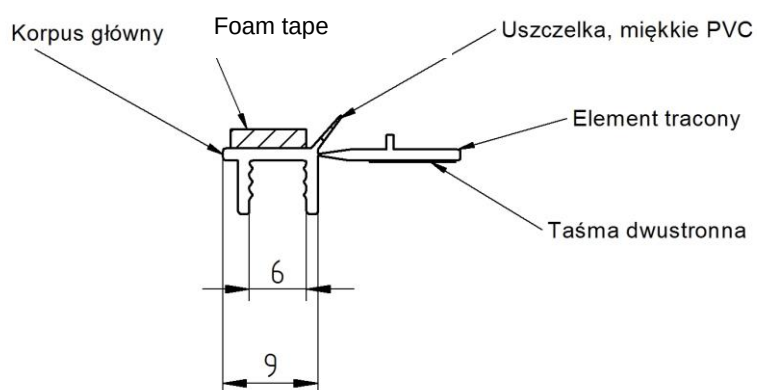


Figure A38. Strip BP5 15mm

a)



b)

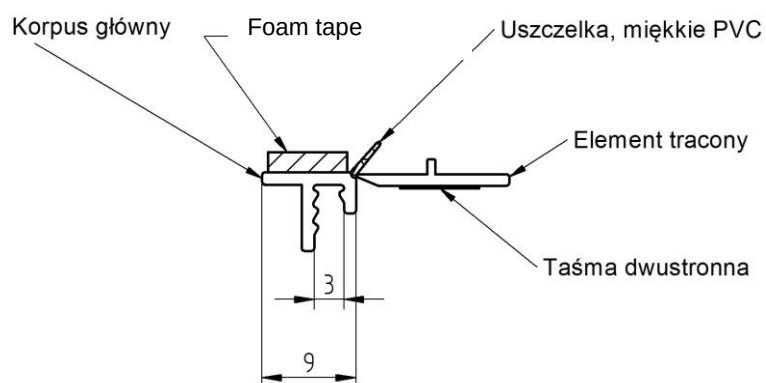
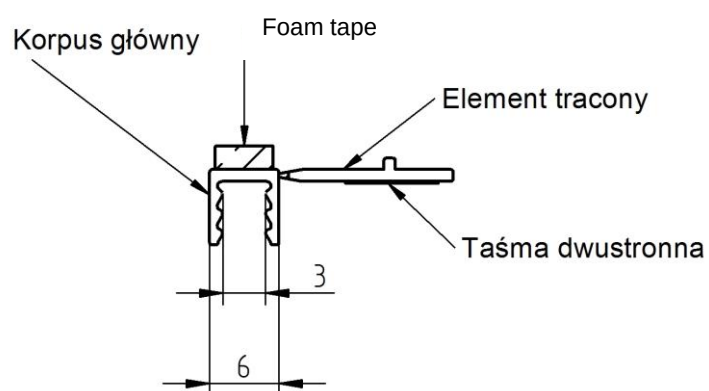
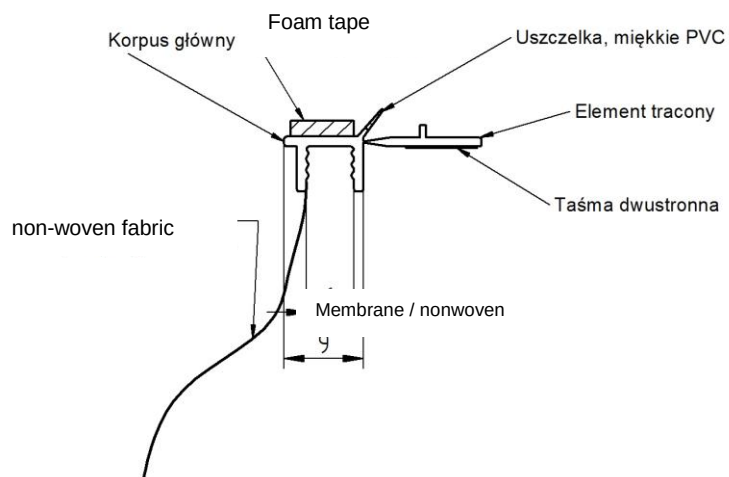


Figure A39. Beads BP12 (a), BP12 MIDI (b)

c)



d)



e)

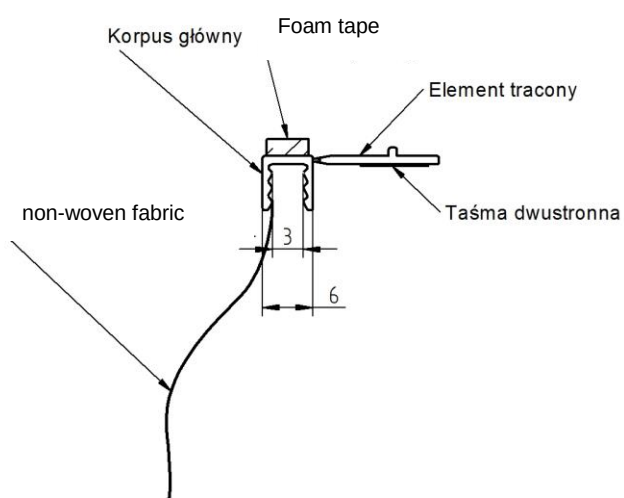
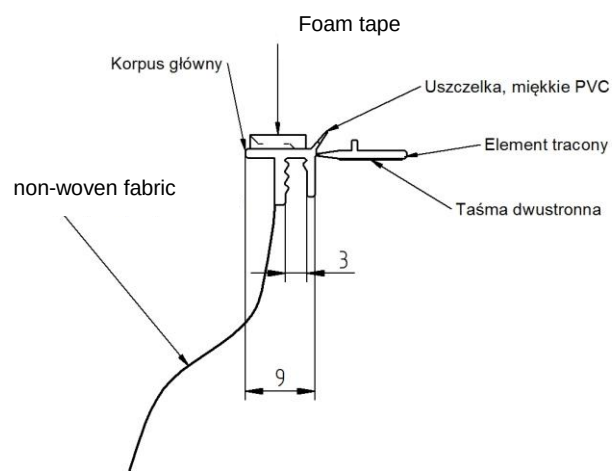
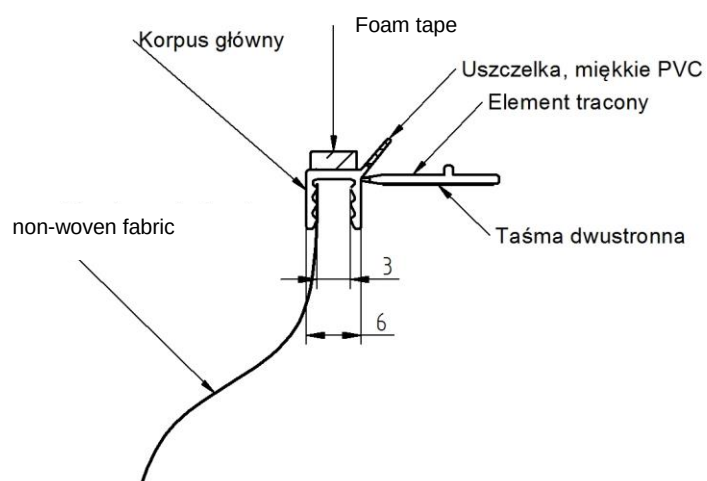


Figure A39. Beads BP12 MINI (c), BP12 CM (d), BP12 MINI CM (e), cont.

f)



g)



h)

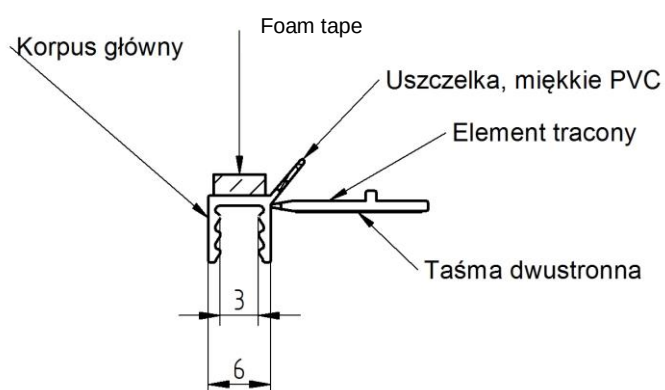
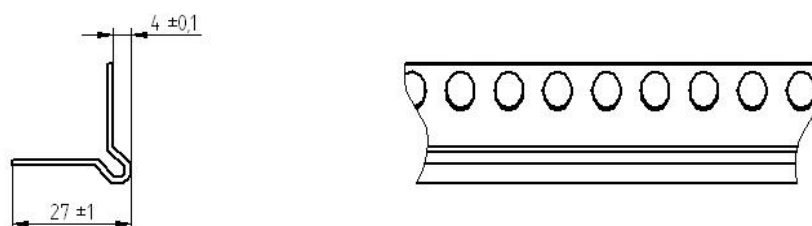
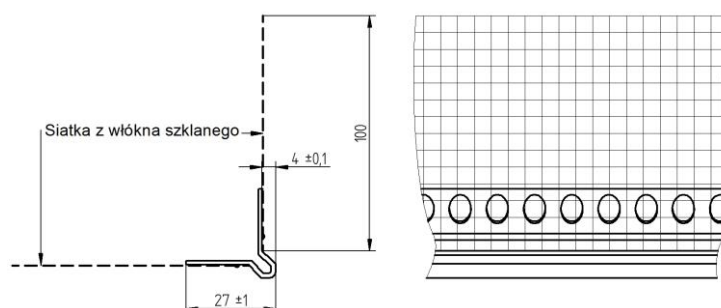


Figure A39. Beads BP12 MIDI CM (f), BP12 MINI U CM (g) and BP12 MINI U (h), cont.

a)



b)



c)

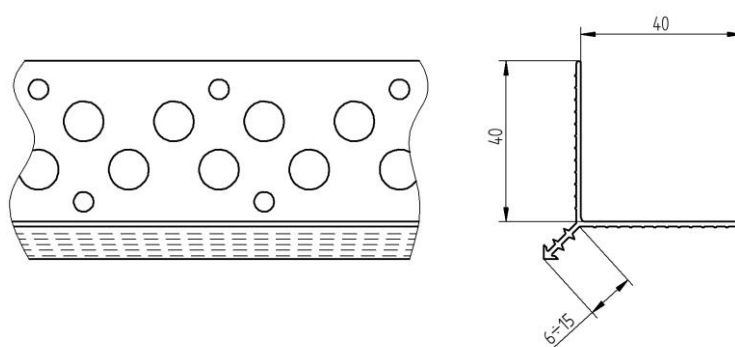


Figure A40. Beads BP23 (a), BP23 S (b) and BP24 (c)

a)

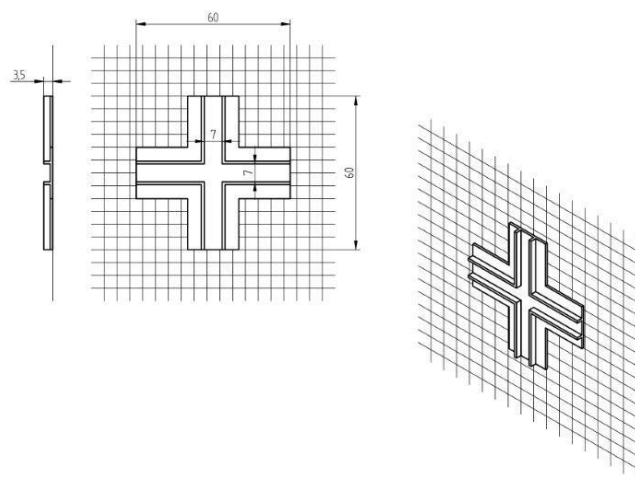
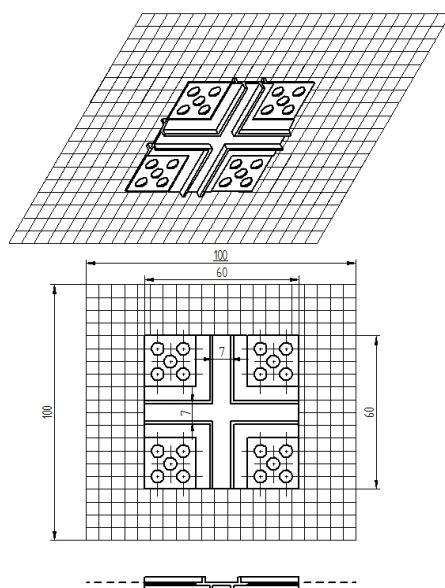
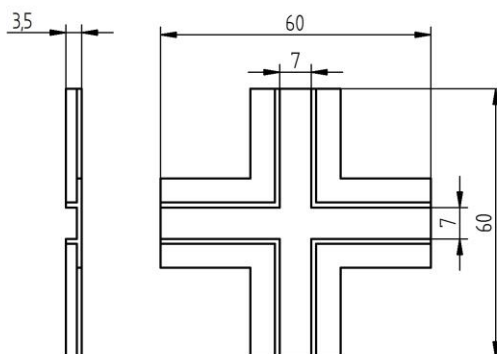


Figure A41. Cross profiles for groove beads: BP11 MINI S CC (a)

b)



c)



d)

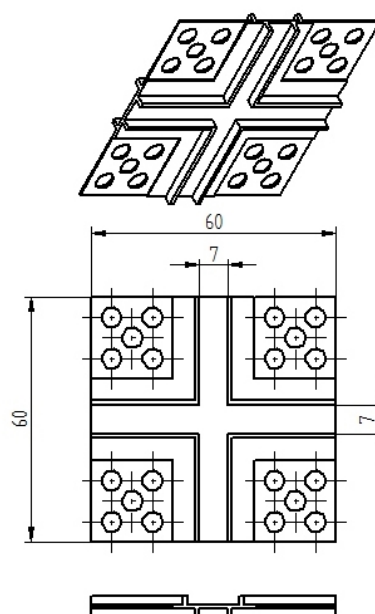
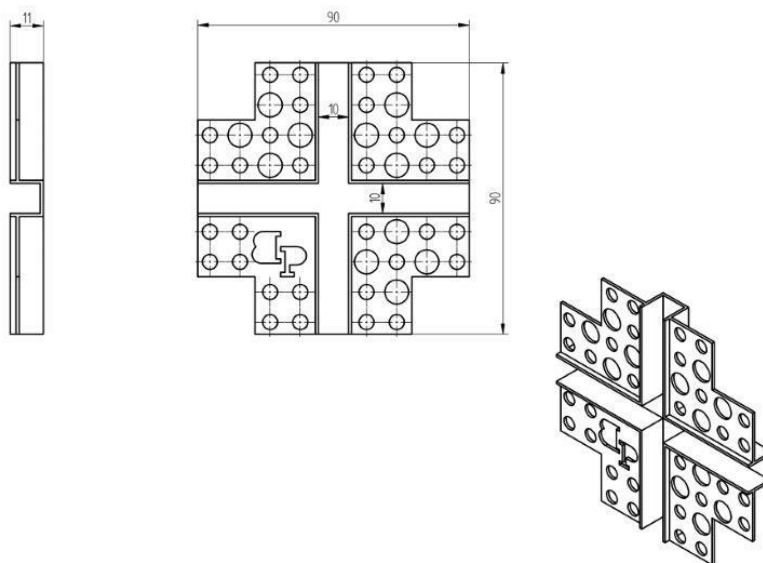
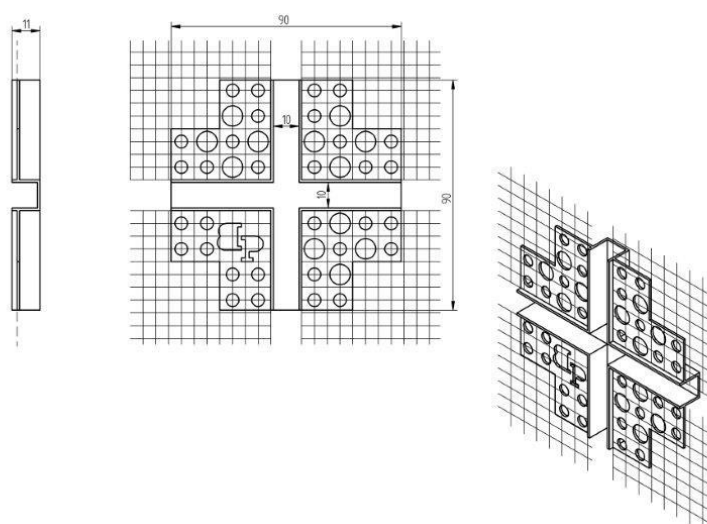


Figure A41. Cross profiles for groove beads: BP11 MINI MAX S CC (b), BP11 MINI CC (c), BP11 MINI MAX CC (d), cont.

e)



f)



g)

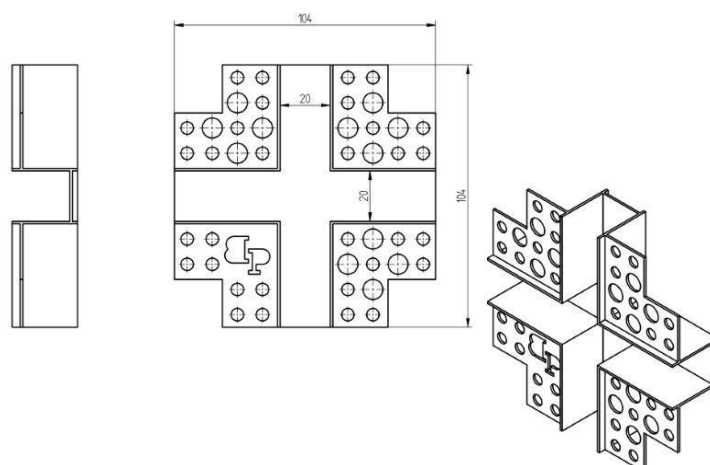
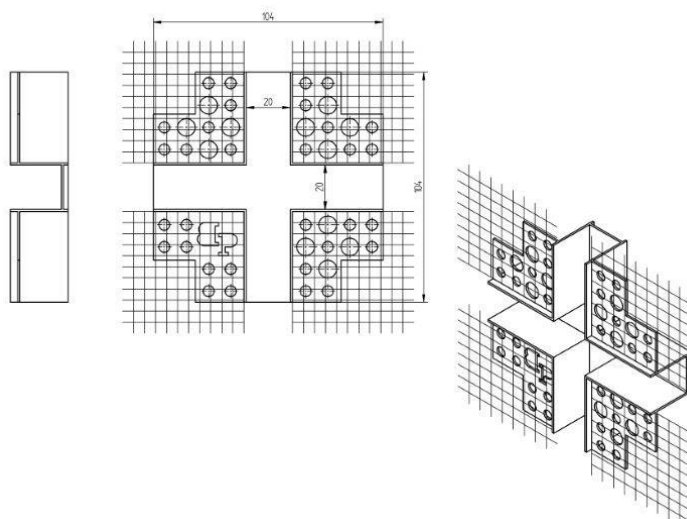
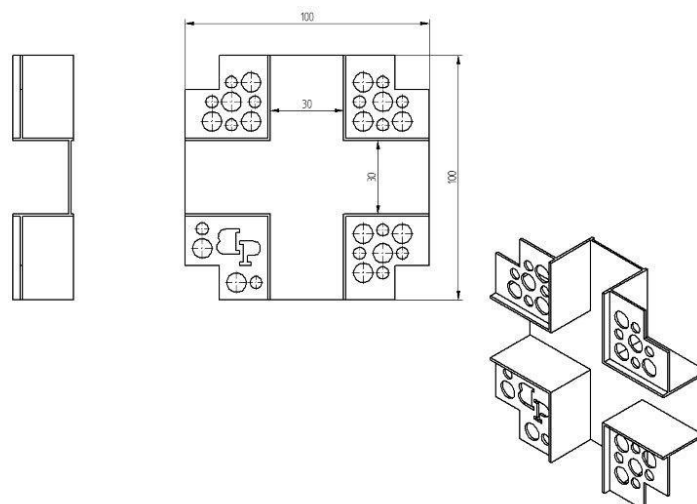


Figure A41. Cross profiles for groove beads: BP11 H1CC (e), BP11 H1SCC (f), BP11 H2CC (g), cont.

h)



i)



j)

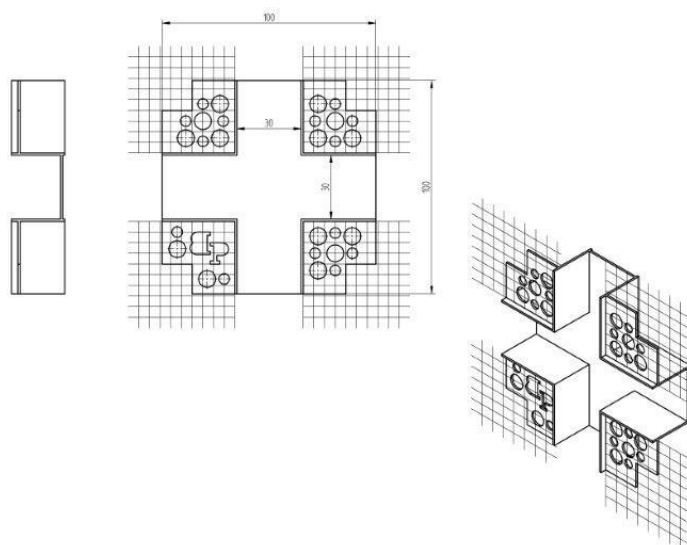
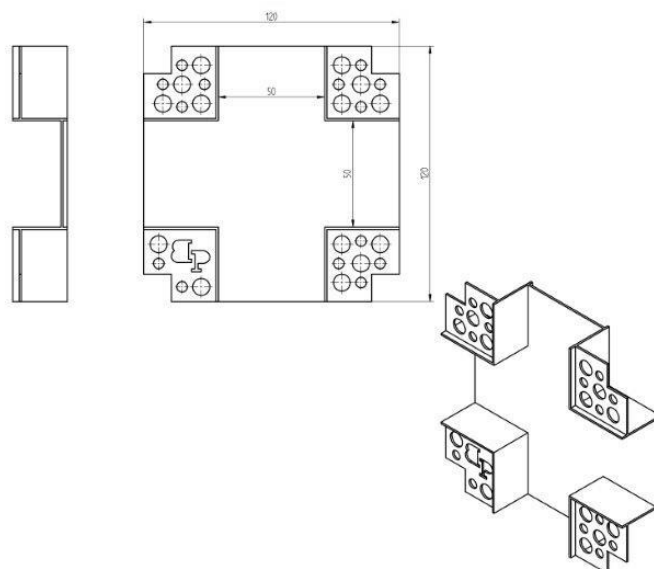


Figure A41. Cross profiles for groove beads: BP11 H2SCC (h), BP11 H3CC (i), BP11 H3SCC (j), cont.

k)



l)

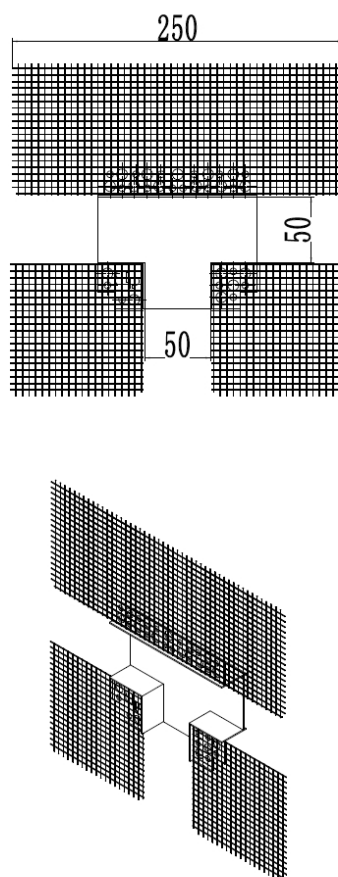
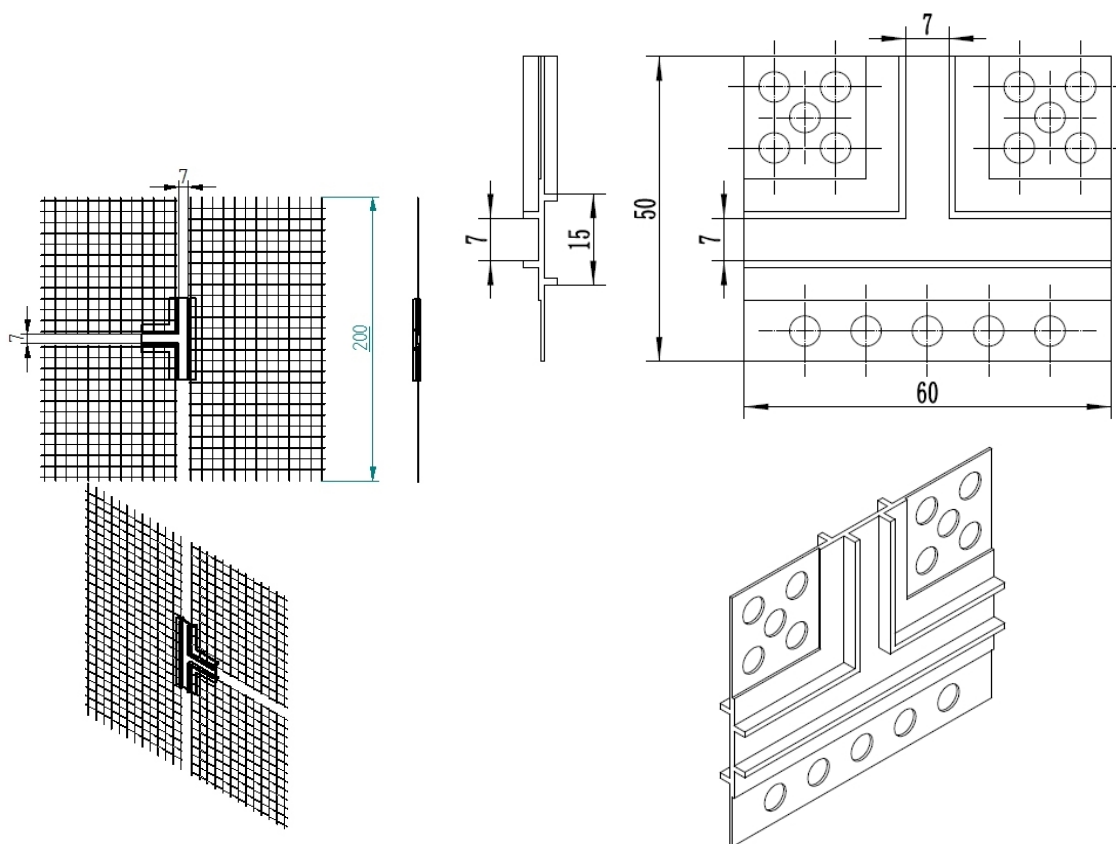


Figure A41. Cross profiles for groove beads: BP11 H5CC (k) and BP11 H5SCC (l), cont.

m)



n)

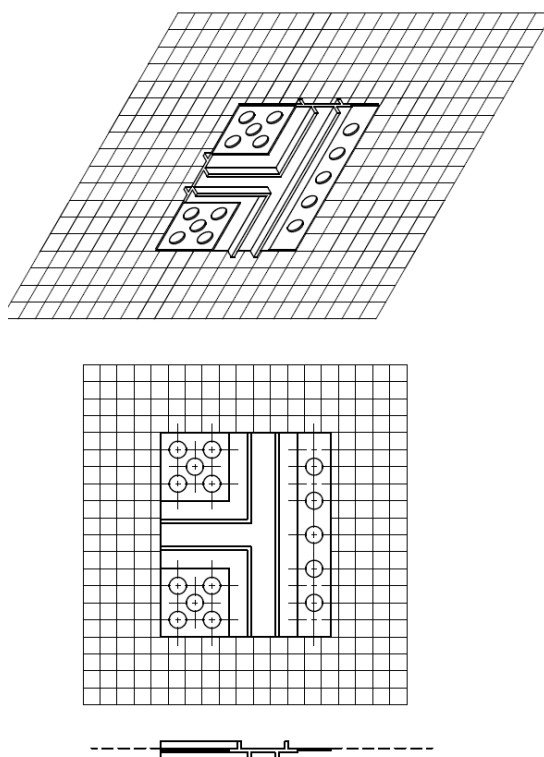
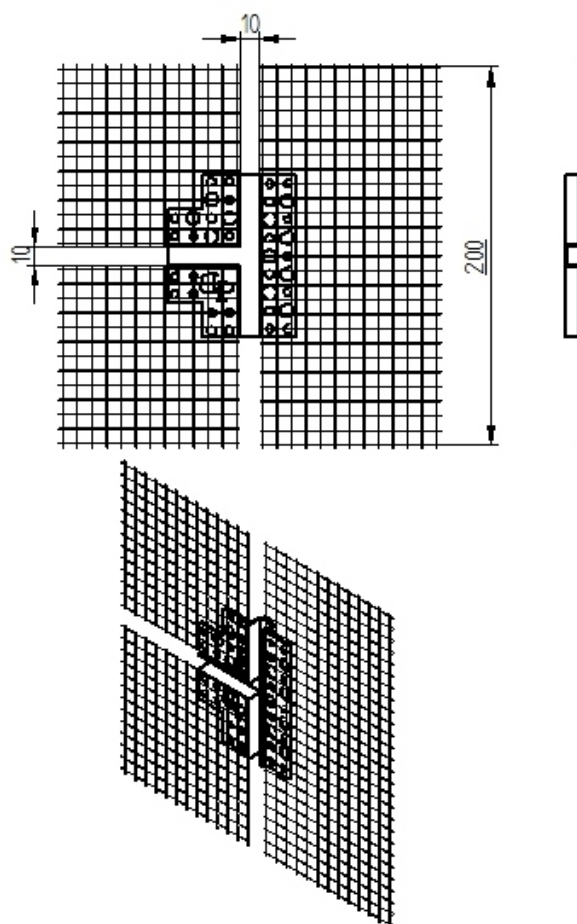


Figure A41. Cross profiles for groove beads: BP11 MINI S TC (m) i BP11 MINI MAX TC (n), cont.

o)



p)

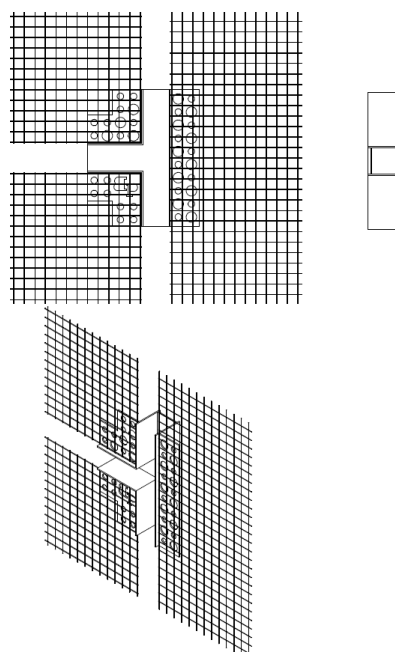
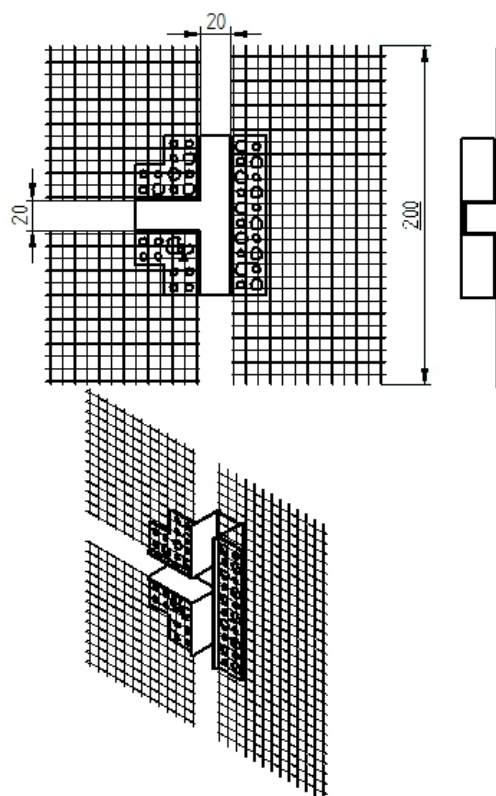


Figure A41. Cross profiles for groove beads: BP11 MINI MAX S TC (o) and BP11 H1 S TC (p), cont.

r)



s)

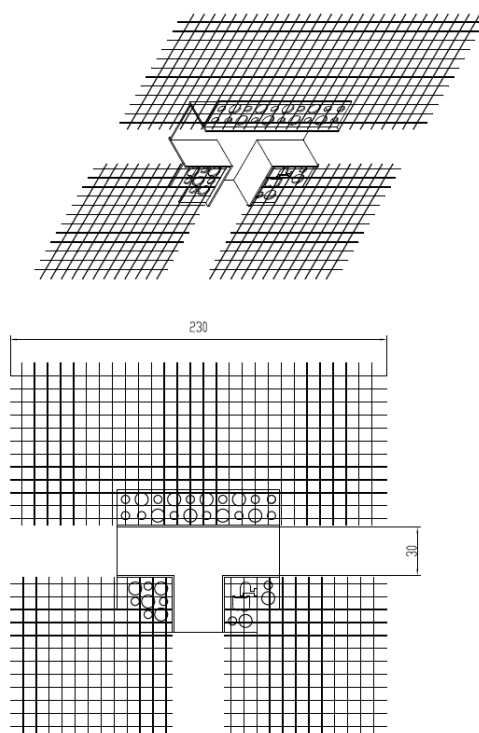


Figure A41. Cross profiles for groove beads: BP11 H2 S TC (r) and BP11 H3 S TC (s), cont.

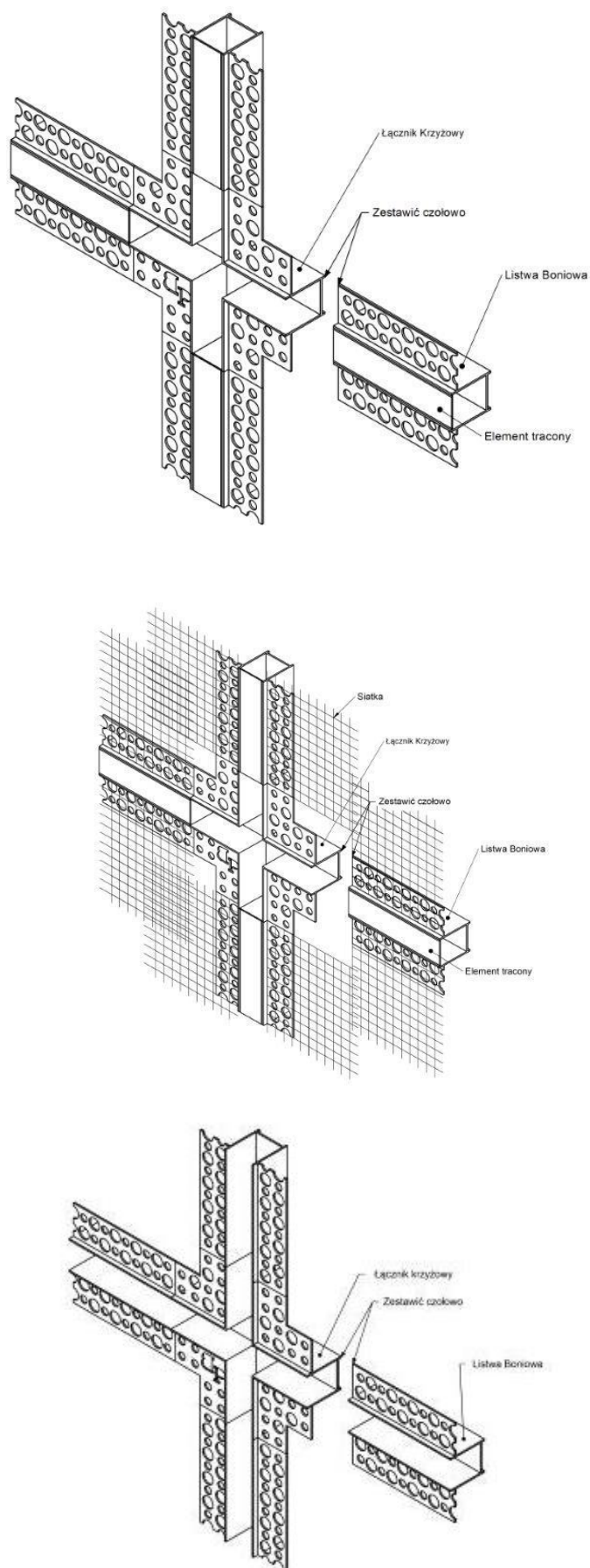


Figure A42. Sample assembly drawings with the use of cross profiles

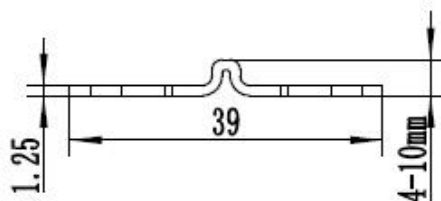


Figure A43. BP17 bead

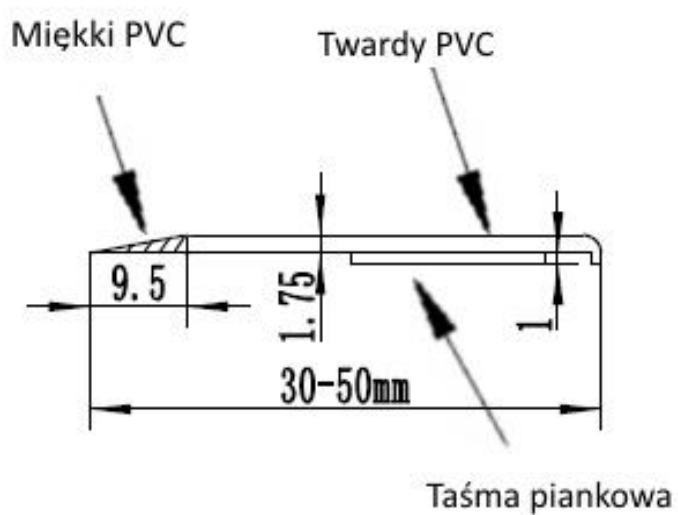


Figure A44. BP29 bead

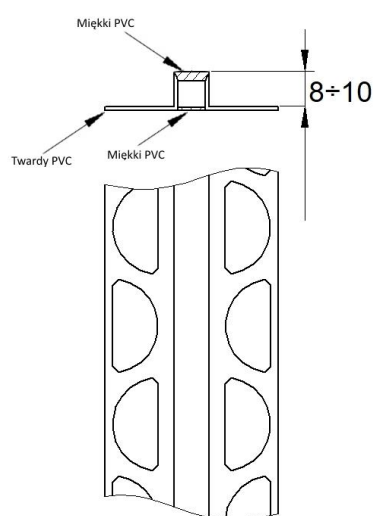


Figure A45. BP18 bead

Appendix B.

B1. Dimensions and Components

The following materials should be used for the production of the BELLA PLAST finish profiles:

- fibreglass mesh, alkali-resistant, with a weight of not less than 145 g/m²,
- Granulated unplasticized poly(vinyl chloride) (PVC-U) with the addition of stabilizers, fillers, impact modifiers and lubricants, with properties given in Table B1,
- PE foam tape having a density of (50 ± 10%) kg/m³ according to ISO 845: 2010.
- poly (vinyl chloride) (soft PVC) granulate, density (1.2 ± 10%) g/cm³ according to PN-EN ISO 1183-3: 2003,
- Non-woven fabric of polypropylene according to PN-EN 14716:2008.

Only the original raw material from the manufacturer's original packaging may be used for the production of finishing profiles made of unplasticized poly(vinyl chloride) (PVC-U). The addition of the same type of secondary raw material from the producer's own milling is allowed, provided that its characteristics are not adversely affected in relation to the primary raw material.

Table B1

Pos.	Properties	General requirements	Testing methods
1	Density, g/cm ³	1.65 ± 10%	PN-EN ISO 1183-1:2013
2	Dimensional stability (longitudinal contraction), %, after 24 h at +70°C	≤ 0.2	as described in point B 1.1

B.1.1. Checking dimensional stability. The dimensional stability of the dimensions of profiles after 24-hour impact of temperature of 70°C must be checked on 5 samples with dimensions (100 mm x nominal width x nominal thickness), assuming the nominal reference value of 100 mm. Sample after measuring distance in the indicated measuring points using callipers, should be placed for 24 hours in a climatic chamber at temperature of 70°C, and conditioned for 2 hours under laboratory conditions, and then the length measured at the previous measurement points. The dimensional stability shall be determined by the change in the distance of the measuring points, in %.

B2. Performance quality

The surfaces of the finishing profiles should be even and smooth, without cracks, burrs and sharp edges, as well as discolourations, roughs and notches. The edges of the corner line should be even and smooth, without mechanical damage.

Strona 11/46	Page 11/46
a)	a)
Korpus główny	Main body
Taśma dylatacyjna	Dilation joint tape
Uszczelka, miękkie PVC	Seal, soft PVC
Element tracony	Removable strip
Taśma dwustronna	Double-sided tape
Siatka z włókna szklanego	Fibreglass mesh
b)	b)
Korpus główny	Main body
Taśma dylatacyjna	Dilation joint tape
Element tracony	Removable strip
Taśma dwustronna	Double-sided tape
Siatka z włókna szklanego	Fibreglass mesh
c)	c)
Korpus główny	Main body
Taśma dylatacyjna	Dilation joint tape
Uszczelka, miękkie PVC	Seal, soft PVC
Element tracony	Removable strip
Taśma dwustronna	Double-sided tape
Siatka z włókna szklanego	Fibreglass mesh
Strona 12/46	Page 12/46
d)	d)
Korpus główny	Main body
Taśma dylatacyjna	Dilation joint tape
Uszczelka, miękkie PVC	Seal, soft PVC
Element tracony	Removable strip
Taśma dwustronna	Double-sided tape
Siatka z włókna szklanego	Fibreglass mesh
Membrana izolacyjna lub paroprzepuszczalna	Insulating or vapour-permeable membrane
e)	e)
Korpus główny	Main body
Taśma dylatacyjna	Dilation joint tape

Element tracony	Removable strip
Taśma dwustronna	Double-sided tape
Siatka z włókna szklanego	Fibreglass mesh
Włóknina	Non-woven fabric
f)	f)
Korpus główny	Main body
Taśma dylatacyjna	Dilation joint tape
Uszczelka, miękkie PVC	Seal, soft PVC
Element tracony	Removable strip
Taśma dwustronna	Double-sided tape
Siatka z włókna szklanego	Fibreglass mesh
Włóknina	Non-woven fabric
Strona 13/46	Page 13/46
g)	g)
Korpus główny	Main body
Taśma dylatacyjna	Dilation joint tape
Uszczelka	Seal
Element tracony	Removable strip
Taśma dwustronna	Double-sided tape
Siatka z włókna szklanego	Fibreglass mesh
Włóknina	Non-woven fabric
h)	h)
Korpus główny	Main body
Taśma dylatacyjna	Dilation joint tape
Uszczelka	Seal
Element tracony	Removable strip
Taśma dwustronna	Double-sided tape
Siatka z włókna szklanego	Fibreglass mesh
Strona 14/46	Page 14/46
a)	a)
Siatka z włókna szklanego	Fibreglass mesh
b)	b)
Siatka z włókna szklanego	Fibreglass mesh
c)	c)
Listwa startowa aluminiowa	Aluminium starter strip

Okapnik	Drip
Pianka dwustronna klejąca	Double-sided adhesive foam
Siatka z włókna szklanego	Fibreglass mesh
Strona 15/46	Page 15/46
a)	a)
Taśma ochronna	Protective tape
Siatka z włókna szklanego	Fibreglass mesh
b)	b)
Siatka z włókna szklanego	Fibreglass mesh
Taśma ochronna	Protective tape
Strona 16/46	Page 16/46
a)	a)
Taśma ochronna	Protective tape
Skrzydółka	Flaps
d)e)f)	d)e)f)
element tracony	Lost element
Taśma ochronna	Protective tape
Skrzydółka	Flaps
g)h)	g)h)
Taśma ochronna	Protective tape
Skrzydółka	Flaps
Strona 17/46	Page 17/46
a)	a)
Siatka z włókna szklanego	Fibreglass mesh
b)	b)
Siatka z włókna szklanego	Fibreglass mesh
Strona 18/46	Page 18/46
a)	a)
taśma ochronna	Protective tape
Skrzydółka	Flaps
Siatka z włókna szklanego	Fibreglass mesh
b)	b)

Taśma ochronna	Protective tape
Siatka z włókna szklanego	Fibreglass mesh
Skrzydółka	Flaps
c)	c)
Taśma ochronna	Protective tape
Siatka z włókna szklanego	Fibreglass mesh
Skrzydółka	Flaps
Strona 19/46	Page 19/46
d)	d)
element tracony	Lost element
Siatka z włókna szklanego	Fibreglass mesh
e)	e)
Taśma ochronna	Protective tape
Skrzydółka	Flaps
f)	f)
Taśma ochronna	Protective tape
Siatka z włókna szklanego	Fibreglass mesh
Skrzydółko	Flaps
Strona 20/46	Page 20/46
g)	g)
Taśma ochronna	Protective tape
Siatka z włókna szklanego	Fibreglass mesh
Skrzydółko	Flaps
h)	h)
Siatka z włókna szklanego	Fibreglass mesh
Taśma ochronna	Protective tape
Skrzydółko	Flaps
Strona 22/46	Page 22/46
Rysunek A7	Figure A7
Siatka z włókna szklanego	Fibreglass mesh
Rysunek A8	Figure A8
Siatka z włókna szklanego	Fibreglass mesh

Rysunek A9	Figure A9
Siatka z włókna szklanego	Fibreglass mesh
Taśma piankowa	Foam tape
Strona 23/46	Page 23/46
Rysunek A10	Figure A10
Siatka z włókna szklanego	Fibreglass mesh
Rysunek A11	Figure A11
Siatka z włókna szklanego	Fibreglass mesh
Strona 24/46	Page 24/46
a)	a)
Taśma piankowa	Foam tape
b)	b)
Taśma piankowa	Foam tape
Strona 25/46	Page 25/46
a)	a)
Skrzydółka	Flaps
Siatka z włókna szklanego	Fibreglass mesh
b)	b)
Pianka ochronna	Protective tape
Siatka z włókna szklanego	Fibreglass mesh
Skrzydółko	Flaps
Strona 26/46	Page 26/46
Rysunek A17	Figure A17
Siatka z włókna szklanego	Fibreglass mesh
Rysunek A18	Figure A18
Siatka szklana	Fibreglass mesh
Strona 30/46	Page 30/46
Rysunek A28	Figure A28
Elastyczny przegub	Flexible joint
Miękkie PVC	Soft PVC
Siatka z włókna szklanego	Fibreglass mesh

Strona 31/46	Page 31/46
Rysunek A30	Figure A30
Elastyczny przegub	Flexible joint
Miękkie PVC	Soft PVC
Siatka z włókna szklanego 10cm	Fiberglass mesh 10cm
Strona 32/46	Page 32/46
Rysunek A34	Figure A34
Taśma ochronna	Protective tape
Taśma piankowa	Foam tape
Strona 33/46	Page 33/46
Rysunek A37	Figure A37
Grubość płyty G-K	Plasterboard thickness
a)	a)
Korpus główny	Main body
Taśma piankowa	Foam tape
Uszczelka, miękkie PVC	Seal, soft PVC
Element tracony	Removable strip
Taśma dwustronna	Double-sided tape
b)	b)
Korpus główny	Main body
Taśma piankowa	Foam tape
Uszczelka, miękkie PVC	Seal, soft PVC
Element tracony	Removable strip
Taśma dwustronna	Double-sided tape
Strona 33/46	Page 33/46
c)	c)
Korpus główny	Main body
Taśma piankowa	Foam tape
Element tracony	Removable strip
Taśma dwustronna	Double-sided tape
d)	d)
Korpus główny	Main body

Taśma piankowa	Foam tape
Uszczelka, miękkie PVC	Seal, soft PVC
Element tracony	Removable strip
Taśma dwustronna	Double-sided tape
Włóknina	Non-woven fabric
Membrana / włóknina	Membrane / nonwoven
e)	e)
Korpus główny	Main body
Taśma piankowa	Foam tape
Element tracony	Removable strip
Taśma dwustronna	Double-sided tape
Włóknina	Non-woven fabric
Strona 35/46	Page 35/46
f)	f)
Korpus główny	Main body
Taśma piankowa	Foam tape
Uszczelka, miękkie PVC	Seal, soft PVC
Element tracony	Removable strip
Taśma dwustronna	Double-sided tape
Włóknina	Non-woven fabric
g)	g)
Korpus główny	Main body
Taśma piankowa	Foam tape
Uszczelka, miękkie PVC	Seal, soft PVC
Element tracony	Removable strip
Taśma dwustronna	Double-sided tape
Włóknina	Non-woven fabric
h)	h)
Korpus główny	Main body
Taśma piankowa	Foam tape
Uszczelka, miękkie PVC	Seal, soft PVC
Element tracony	Removable strip
Taśma dwustronna	Double-sided tape
Strona 44/46	Page 44/46
Rysunek 1	Figure 1
Łącznik Krzyżowy	Cross-link

Zestawić czołowo	Put together frontally
Listwa Boniowa	Grove bead
Element tracony	Removable strip
Rysunek 2	Figure 2
Siatka	Mesh
Łącznik Krzyżowy	Cross-link
Zestawić czołowo	Put together frontally
Listwa Boniowa	Grove bead
Element tracony	Removable strip
Rysunek 3	Figure 3
Łącznik Krzyżowy	Cross-link
Zestawić czołowo	Put together frontally
Listwa Boniowa	Grove bead
Strona 45/46	Page 45/46
Rysunek A44	Figure A44
Miękki PVC	Soft PVC
Twardy PVC	Hard PVC
Taśma piankowa	Foam tape