

INSTALLATION MANUAL FOR ALUPROF MB-77 HS

Aluminum profiles, details, infill elements, glass, windows, and doors can be transported by any means of transportation provided they are protected from dirt, dust, and the possibility of damage during transport.

Mounting guidelines on site

Modern doors of the MB-77HS system maintain their very good operational properties provided they are correctly mounted to the building walls. The permissible deflection of the lintel or ceiling above the MB-77 HS doors is 2 mm. The following activities influence the correct installation of the product:

1. Preparation of the opening in the building wall

The opening in the wall where the doors are to be installed should have dimensions larger than the external dimensions of the door frame. The size of the gaps between the aluminum frame and the wall depends on the length of the profiles, their color, and the method of filling the gaps. The angles of the opening should be 90°, and the diagonals should not differ by more than 1 cm, which can be easily checked using a tape measure or string. If the corners of the opening do not maintain a right angle, it may lead to deformation of the frame geometry, affecting the functionality of the entire product. All internal surfaces of the opening should be as smooth as possible and without defects. The lower surface of the opening should be horizontal, uniform, level, built of a material layer on which the product can be stably supported.

2. Setting the frame in the wall

The doors are set on a load-bearing threshold, which ensures continuous transfer of loads, thermal insulation, and maintaining levelness (maximum inclination is 0,5 mm / 1 m length of the threshold). The position of the doors relative to the wall should be such that the 10° C isotherm passes through this structure. Only then can we avoid condensation of water vapor on the inner side of the product during normal use. In a multilayer wall insulated with mineral wool or polystyrene, this isotherm is located in the insulation material, hence the mounting should be done at its depth. In the case of externally insulated walls, aluminum structures are recommended to be installed close to the outer insulation layer. The structure should be leveled, and the gaps between adjacent profiles should be equal. The gap between the frame and the wall on both sides should be uniform and allow for free compensation of thermal expansion of the product.

3. Fastening the product in the wall

It is recommended to fasten the doors using steel anchors or dowels and stainless steel or galvanized screws, and using supporting blocks. The fastening must guarantee the transfer of external loads to the building structure, while the functionality of the doors must be maintained (smooth movement of the leaves when closing and opening).

4. Execution of product insulation

Insulating the space between the frame and the wall aims to protect against water ingress, both rainwater from the outside and water vapor from the inside, and to provide thermal and acoustic insulation. For this purpose, mineral wool, mounting foams or polyethylene rolls, silicone compounds, expansion tapes, windproof and vapor-permeable membranes are most often used. The insulation layer around the frame should be uniform, without breaks, and of equal thickness. External insulation should be applied particularly carefully along the lower frame and corners. It is essential to ensure very good insulation against vapor penetration on the inner side of the mounting gap. If the recesses of the openings are plastered after the aluminum structure is installed, the doors should be protected so that the plaster does not come into contact with the product Surface.

5. Maintenance

Anodized or painted aluminum profiles should be washed with a soft cloth using mild cleaning agents. Do not use fluids based on strongly alkaline or acidic compounds, which may damage oxide or painted coatings. Cleaning agents with a Ph below 5 or above 8 should not be used. During cleaning, the temperature of the coatings and water should not exceed 25° C. After each wash, the surface must be rinsed immediately with clean

Address

Office and headquarters ul. Kartuska 354AA, 80-125 Gdańsk, Poland
Factory ul. Zemieślnicza 56, 83-304 Załężę, Poland

Company

Firma Budowlana „Szach-Mat” Robert Szachnowski
NIP: 597 14 00 696 | REGON: 193098450

Contact

windows@szach-mat.eu
+48 500 100 883

WWW

www.szach-mat.eu

cold water. Regular cleaning prevents the formation of intense, difficult-to-remove stains. Maintenance of fittings should be carried out according to the recommendations of their manufacturers.

ATTENTION!

Lime, cement, alkaline and cleaning substances (e.g., bleaches, abrasive pastes) have a particularly harmful effect on aluminum profiles, especially on decorative protective surfaces. Therefore, finishing works involving “wet” methods should be minimized. If mortar comes into contact with the aluminum surface, it should be immediately washed off (do not allow it to harden). Failure to rinse will result in permanent discoloration and damage to the surface. Electrochemical oxidation of aluminum occurs at points of contact between aluminum surfaces and other metals or their alloys. This corrosion occurs particularly rapidly in conditions of increased humidity. Therefore, aluminum should always be separated from other metals by an isolating layer.

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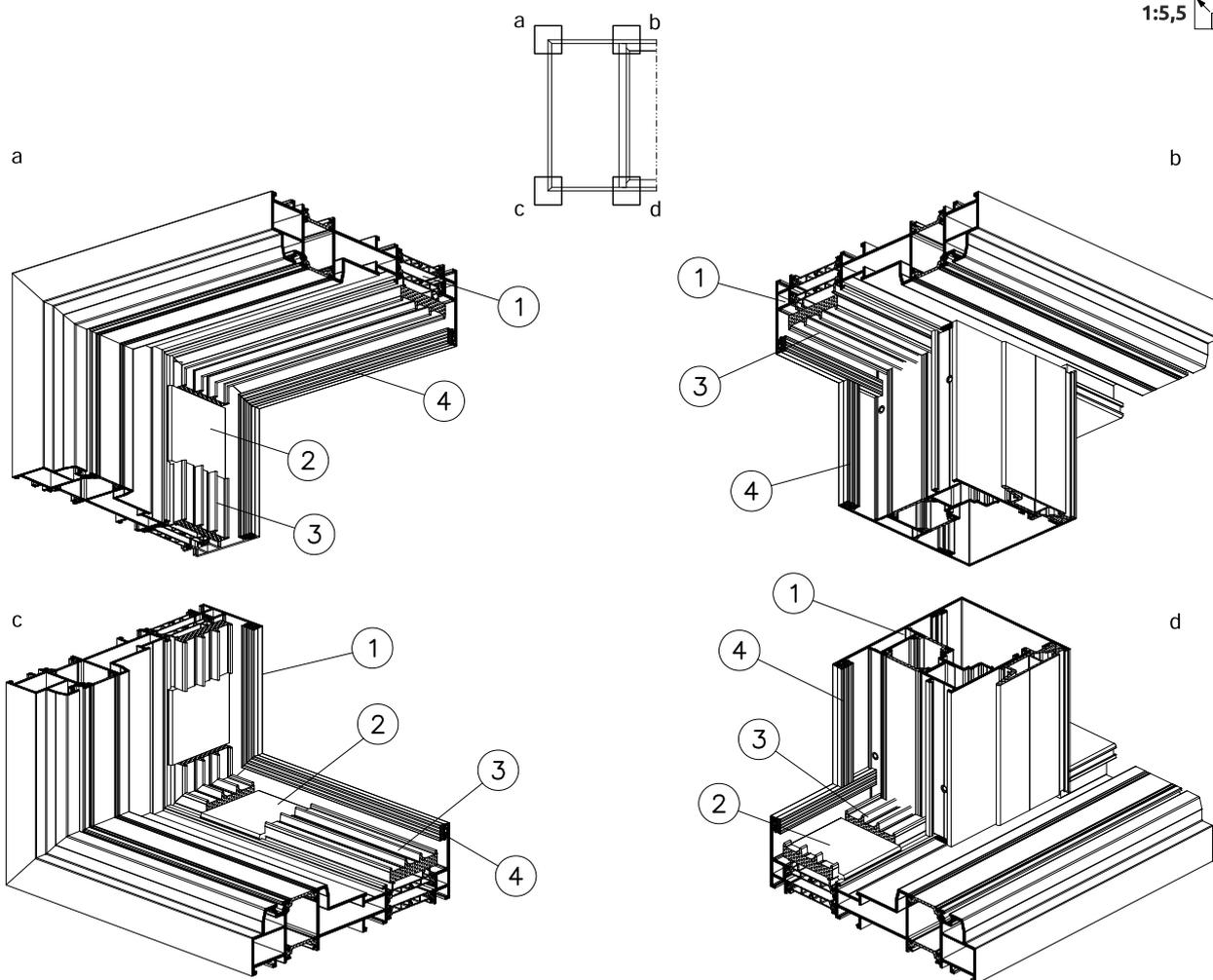
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1:5,5 



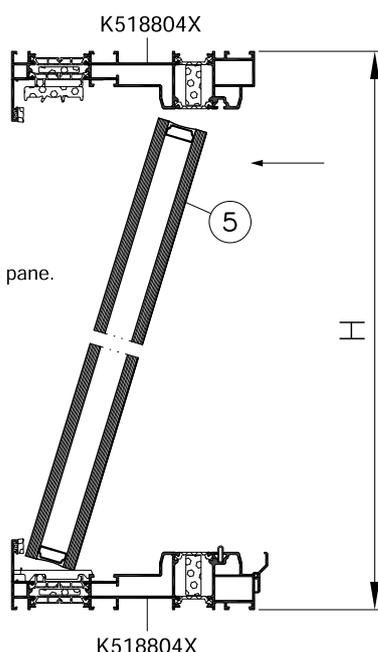
* - Dobór zależy od grubości szyby.
Selection depends of the thickness of the glass pane.
Подбор зависит от толщины стекла.
Die Auswahl hängt von der Scheibendicke.



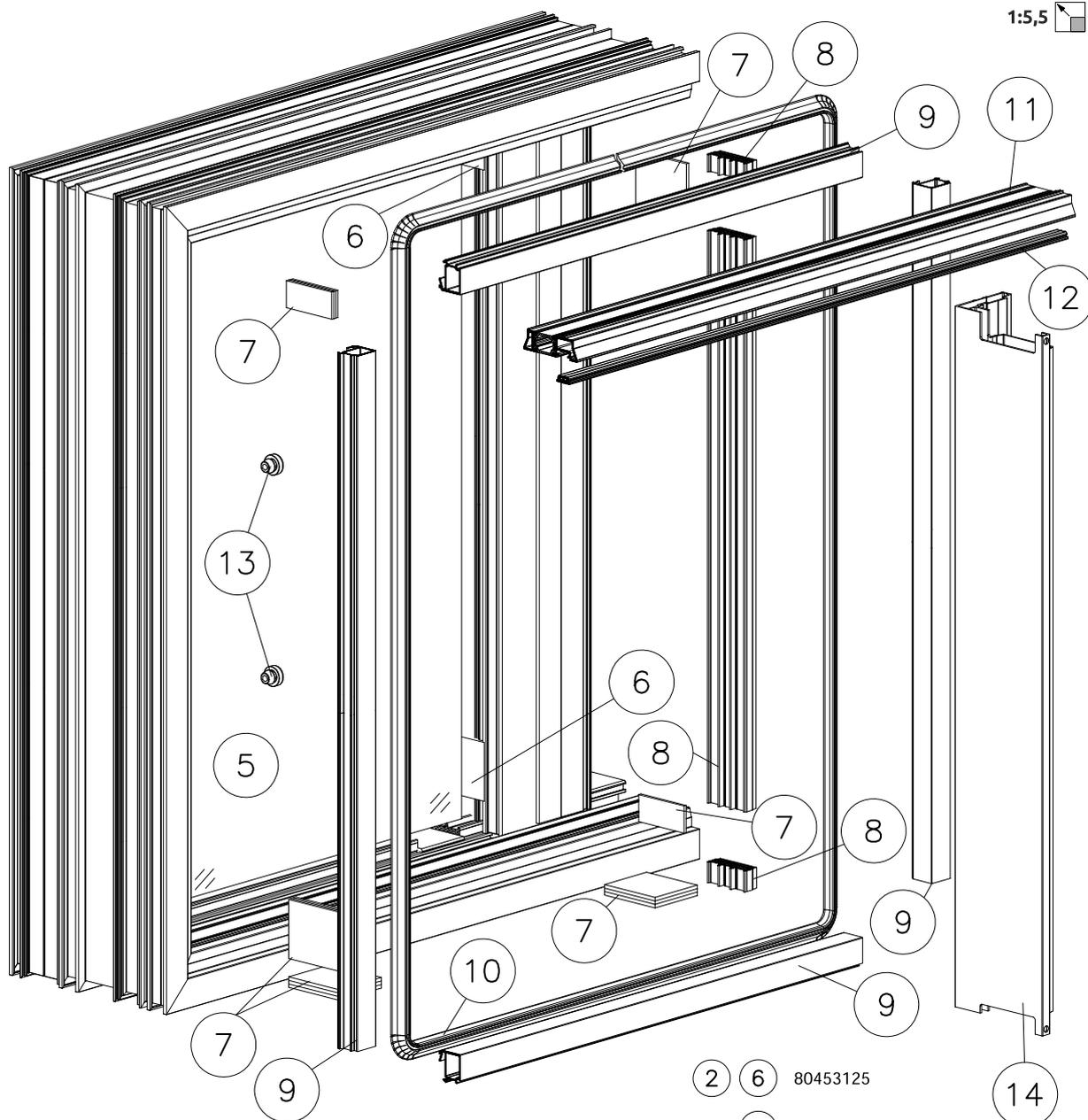
Kolejne kroki montażu
Subsequent assembly steps
Очередные этапы монтажа
Montageschritte



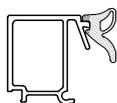
ciąg dalszy na str. 09-0-06.00
Continuation on page 09-0-06.00
Продолжение на странице 09-0-06.00
Fortsetzung auf Seite 09-0-06.00



- ① K518804X
- ② 80453125
- ③ 120927
- ④ 120518*
- ⑤ Szyby / Window panes /
Стекло / Glasscheiben



- !** * - Dobór zależy od grubości szyby.
Selection depends of the thickness of the glass pane.
Подбор зависит от толщины стекла.
Die Auswahl hängt von der Scheibendicke.
** - Schemat G2/ Diagram G2/ Схема G2/ Schema G2



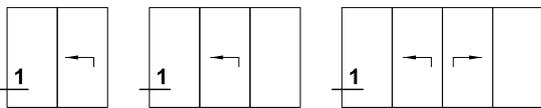
Uszczelki 120540, 120541, 120542, 120750 zaginać w narożach,
kleić na środku górnej poprzeczki okna.
Bend gaskets 120540, 120541, 120542, 120750 in the corners,
glue in mid part of upper crossbar of the window.
Уплотнительные прокладки 120540, 120541, 120542, 120750 загибать
в углах, клеить посередине верхнего импоста окна.
Dichtungen 120540, 120541, 120542, 120750 in den Ecken biegen
und in der Mitte des oberen Fensterquerträgers verkleben.

1.. Kolejne kroki montażu
Subsequent assembly steps
Очередные этапы монтажа
Montageschritte

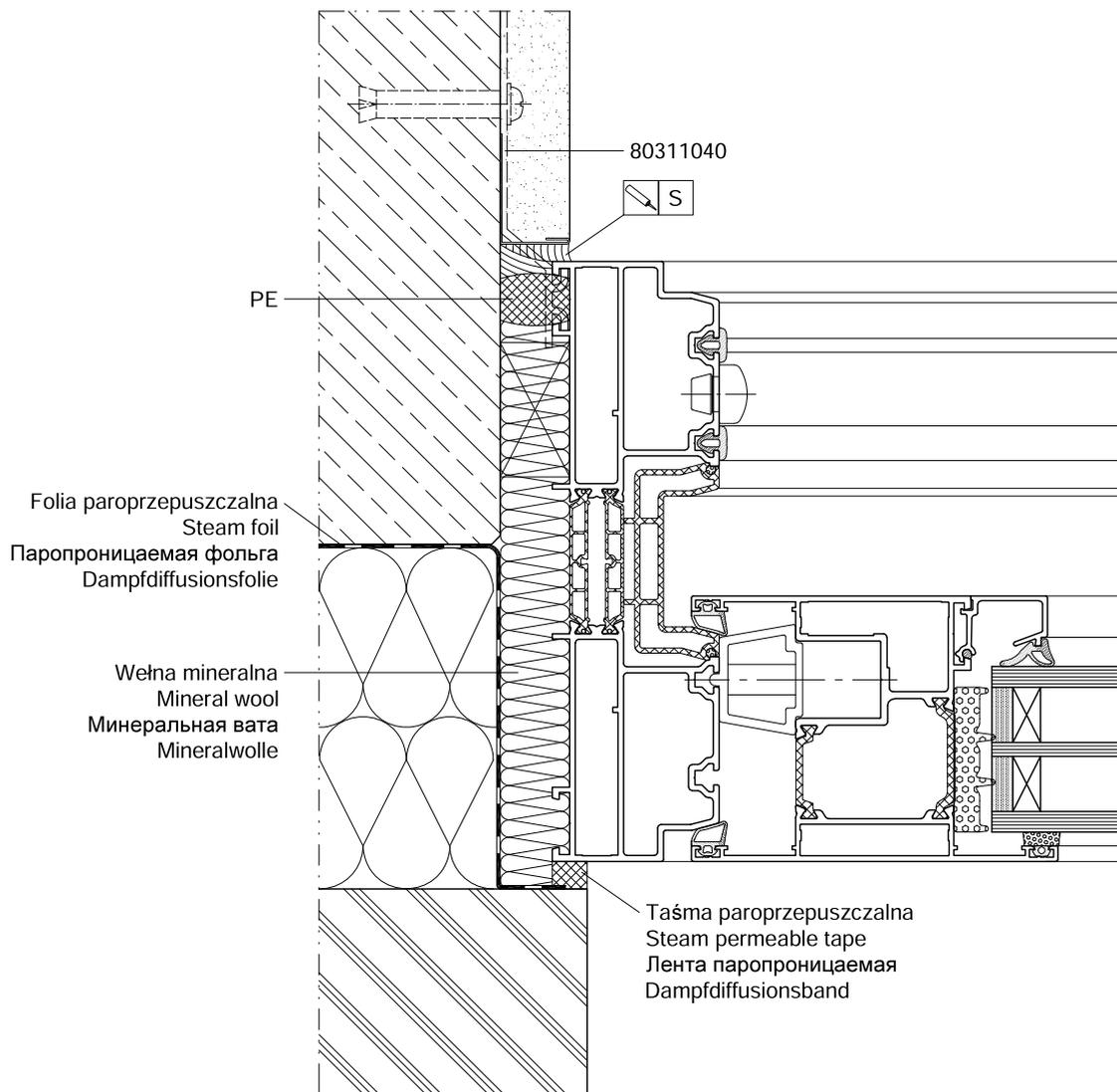
- 2** **6** 80453125
- 7** 80453081*, 85730131
- 8** 120927+120929
- 9** K431624X*
- 10** 120540*
- 11** K518816X
- 12** 120579
- 13** 120872
- 14** K432015X**

PRZYKŁADY ZABUDOWY

EXAMPLES OF ASSEMBLY

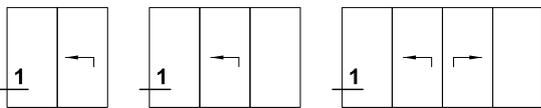


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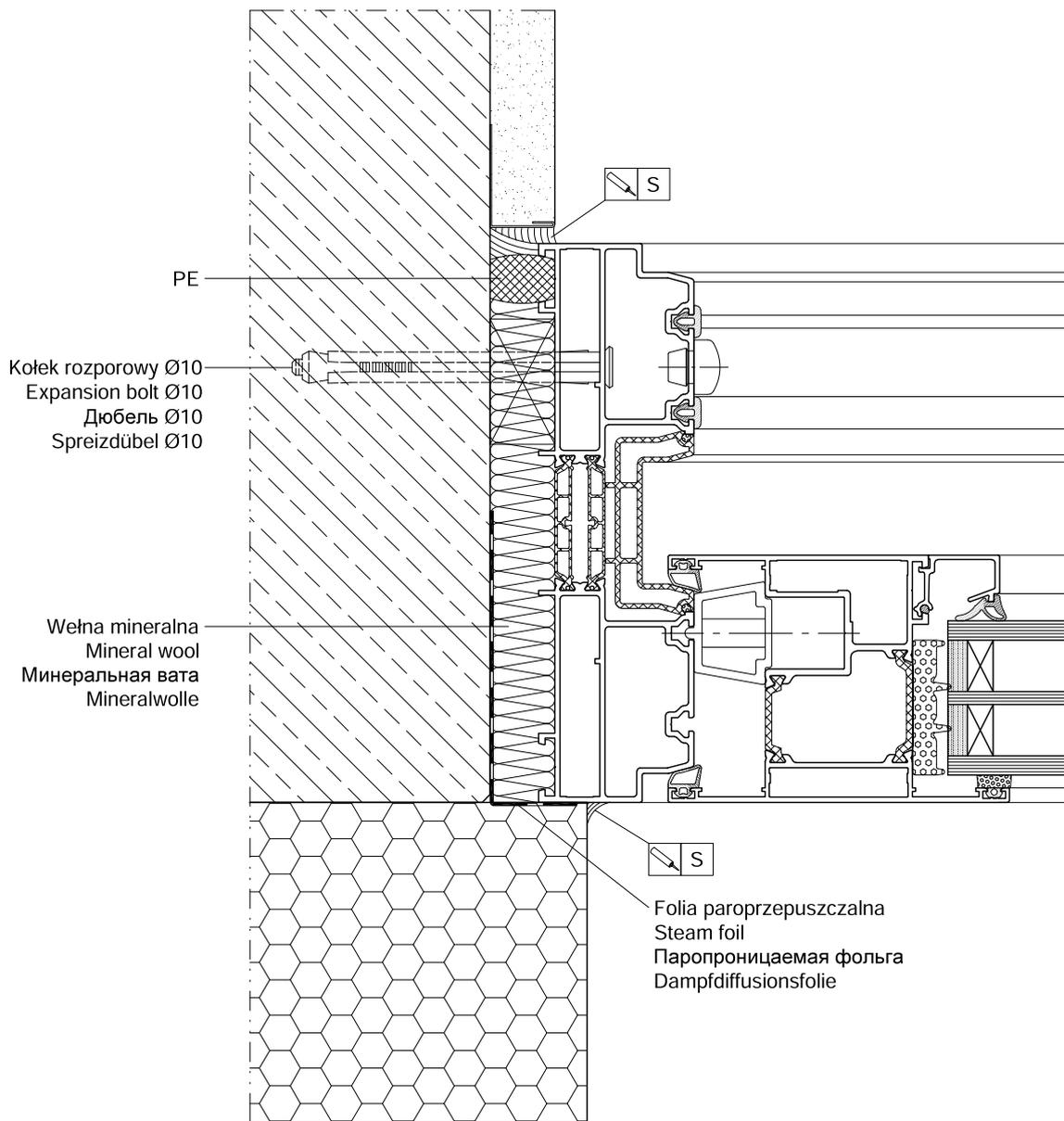


 Osadzenie w murze warstwowym.
Setting in a sandwich wall.
Застройка в многослойной стене.
Anschlagens in einer Schichtenmauer.

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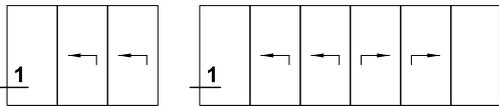


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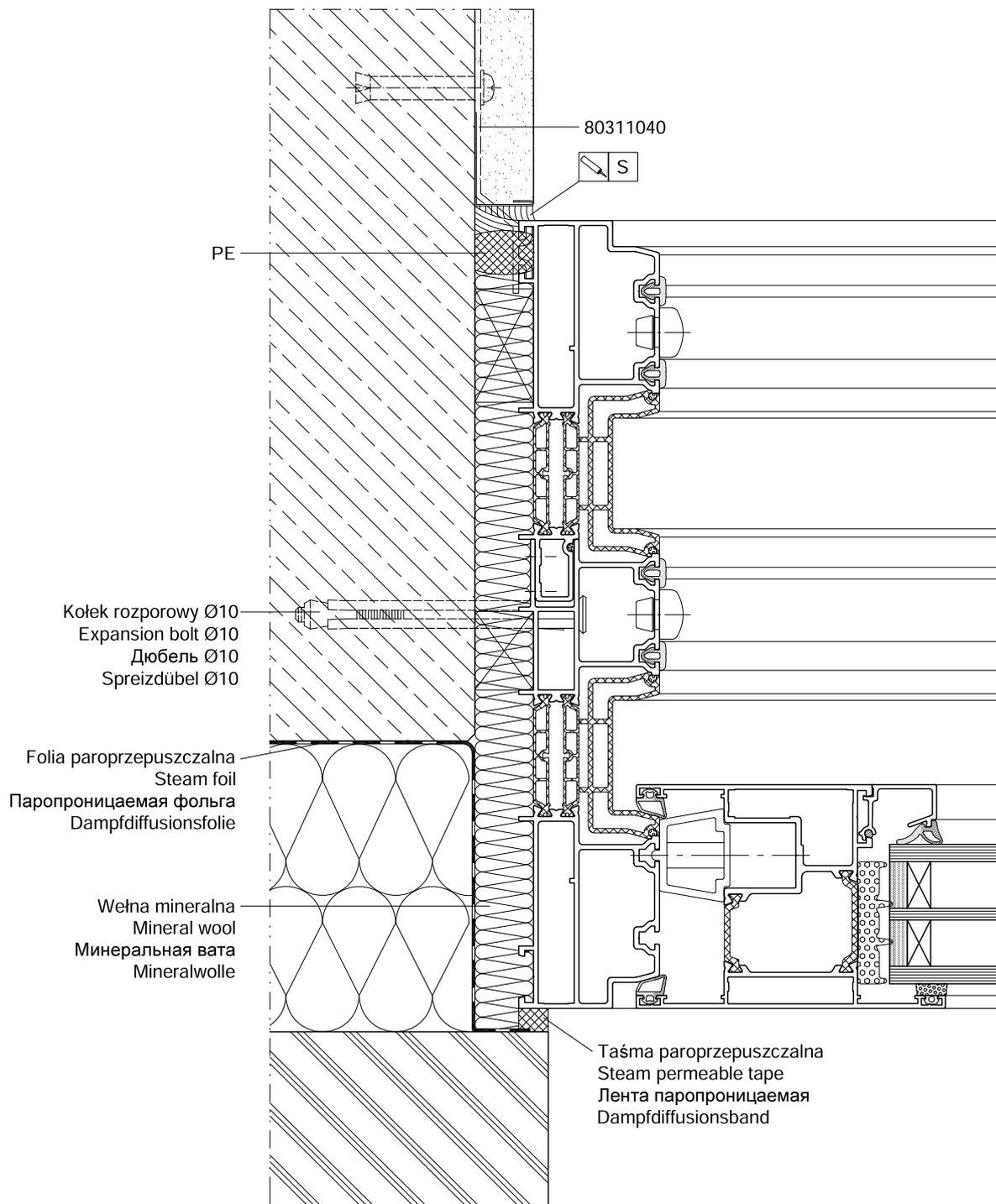


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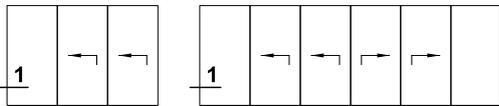


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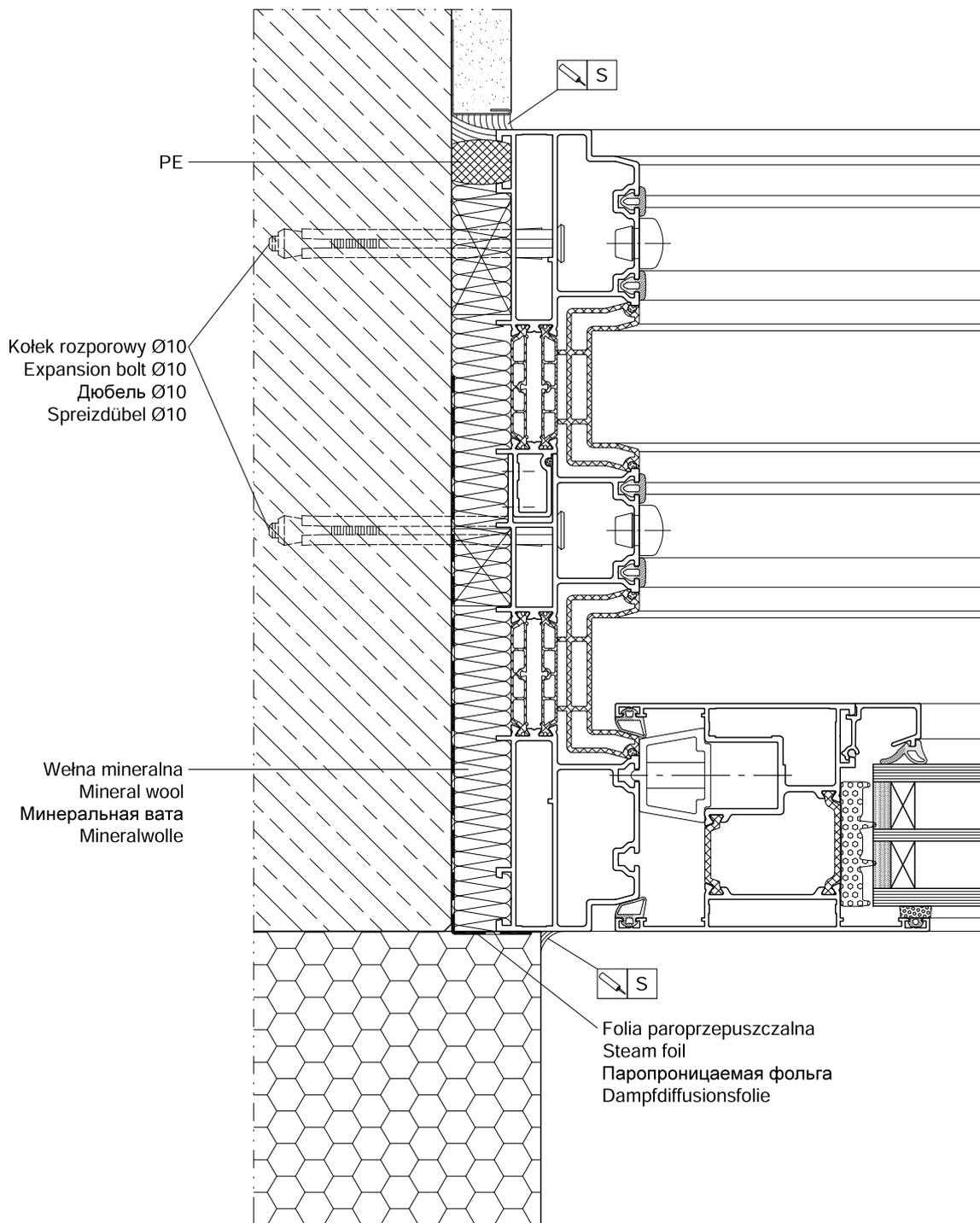


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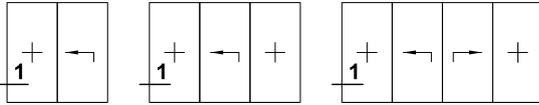


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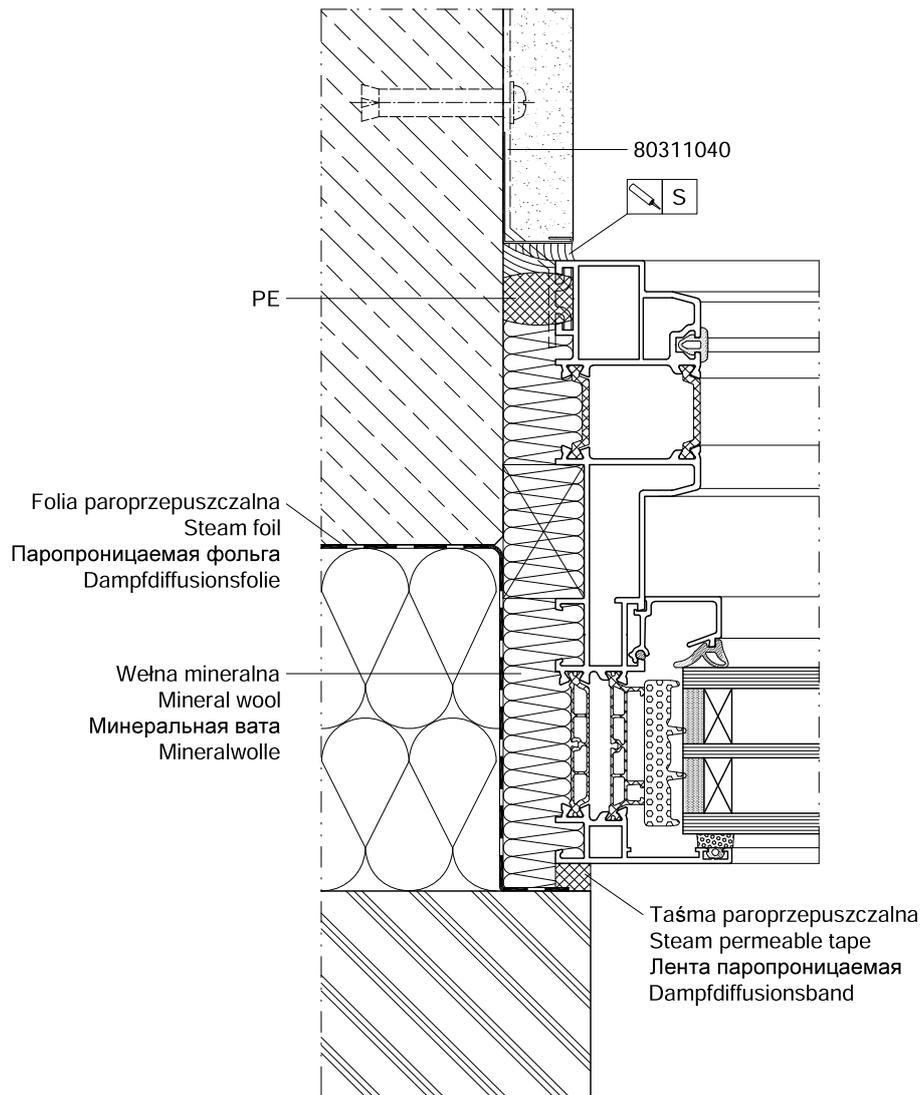


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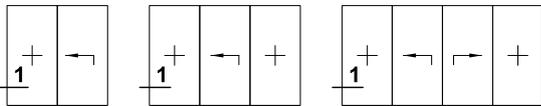


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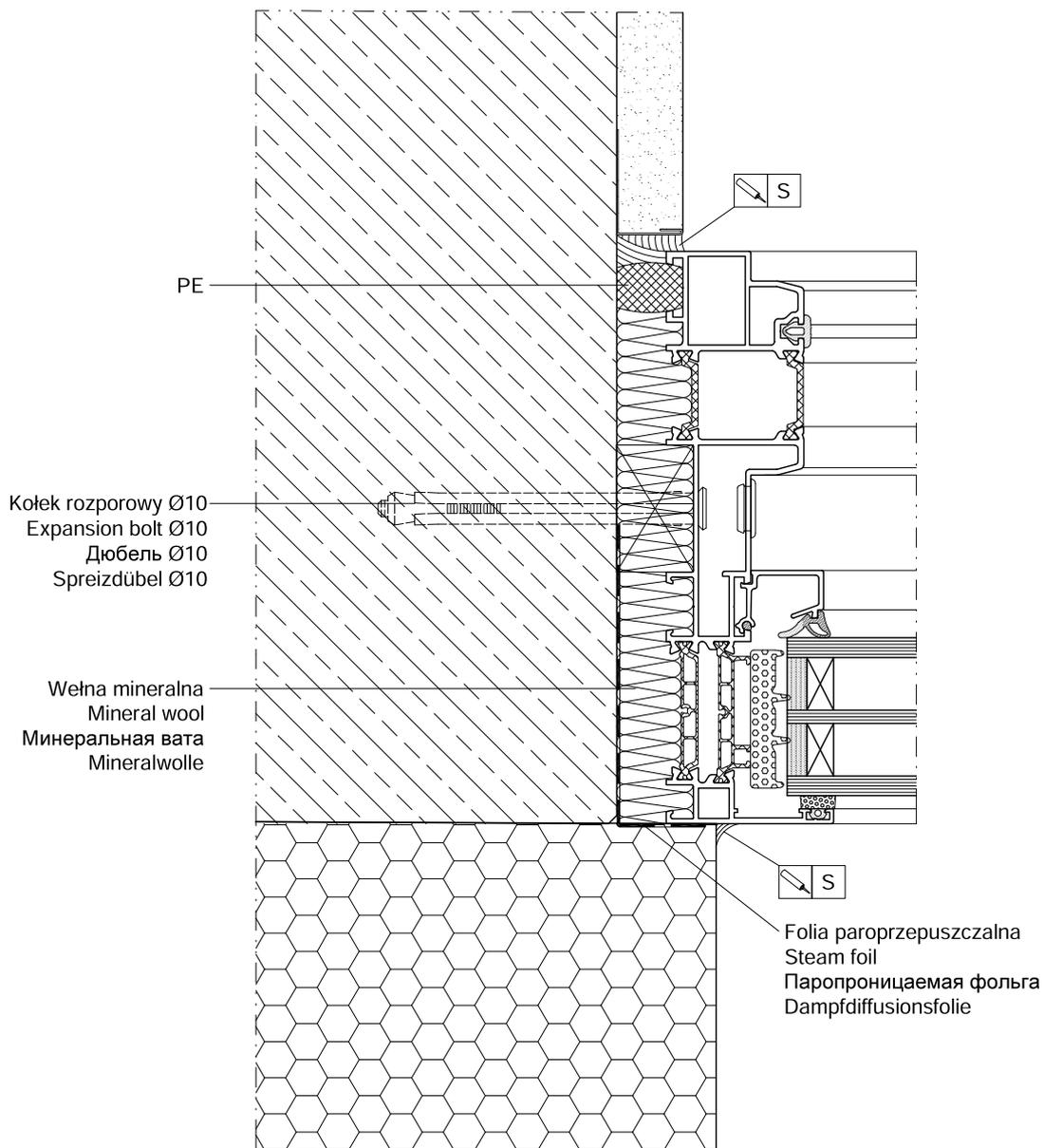


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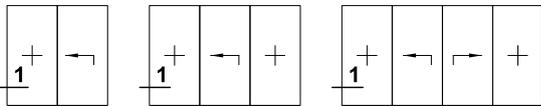


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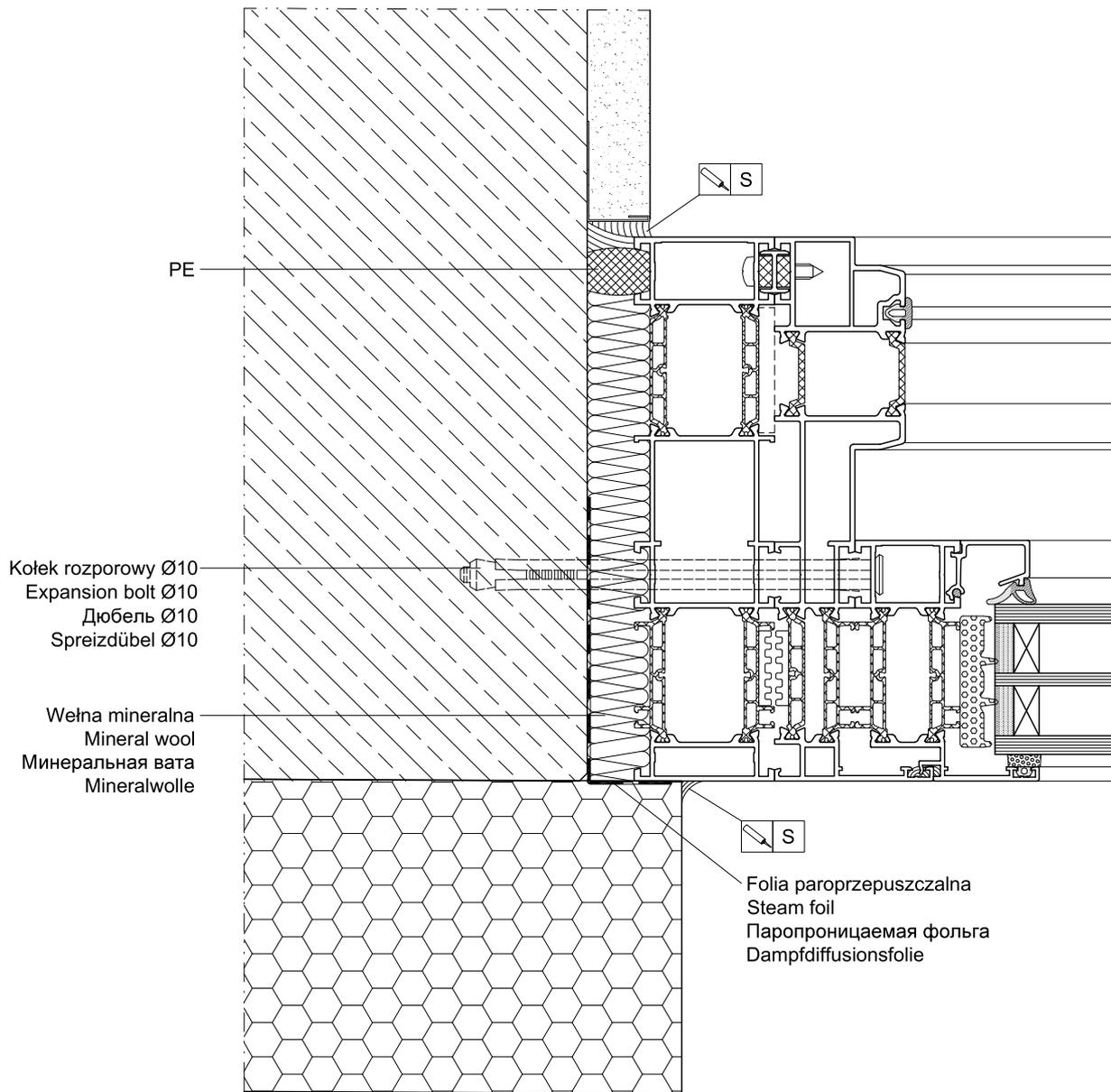


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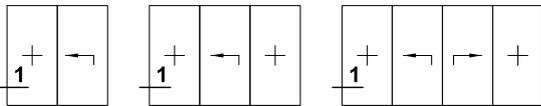


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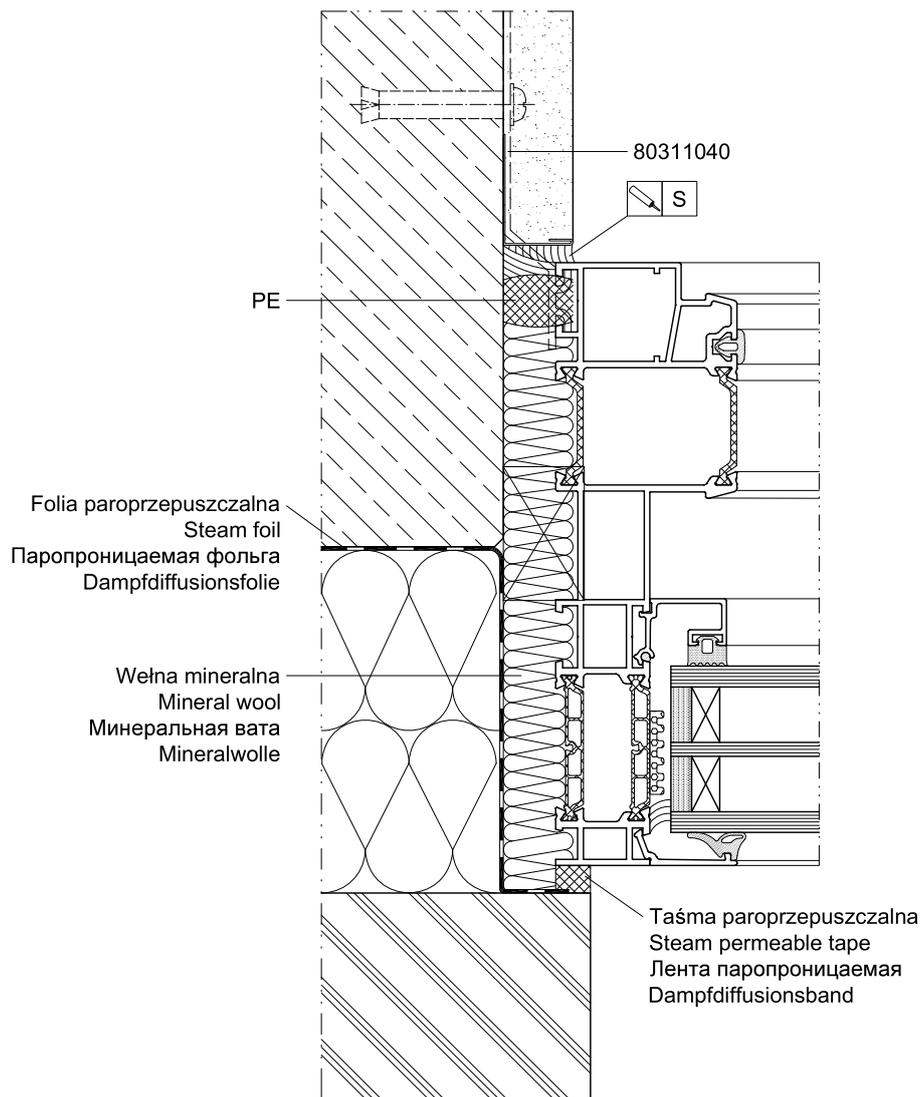


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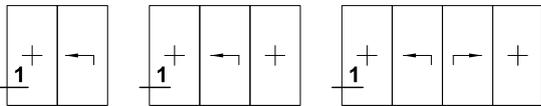


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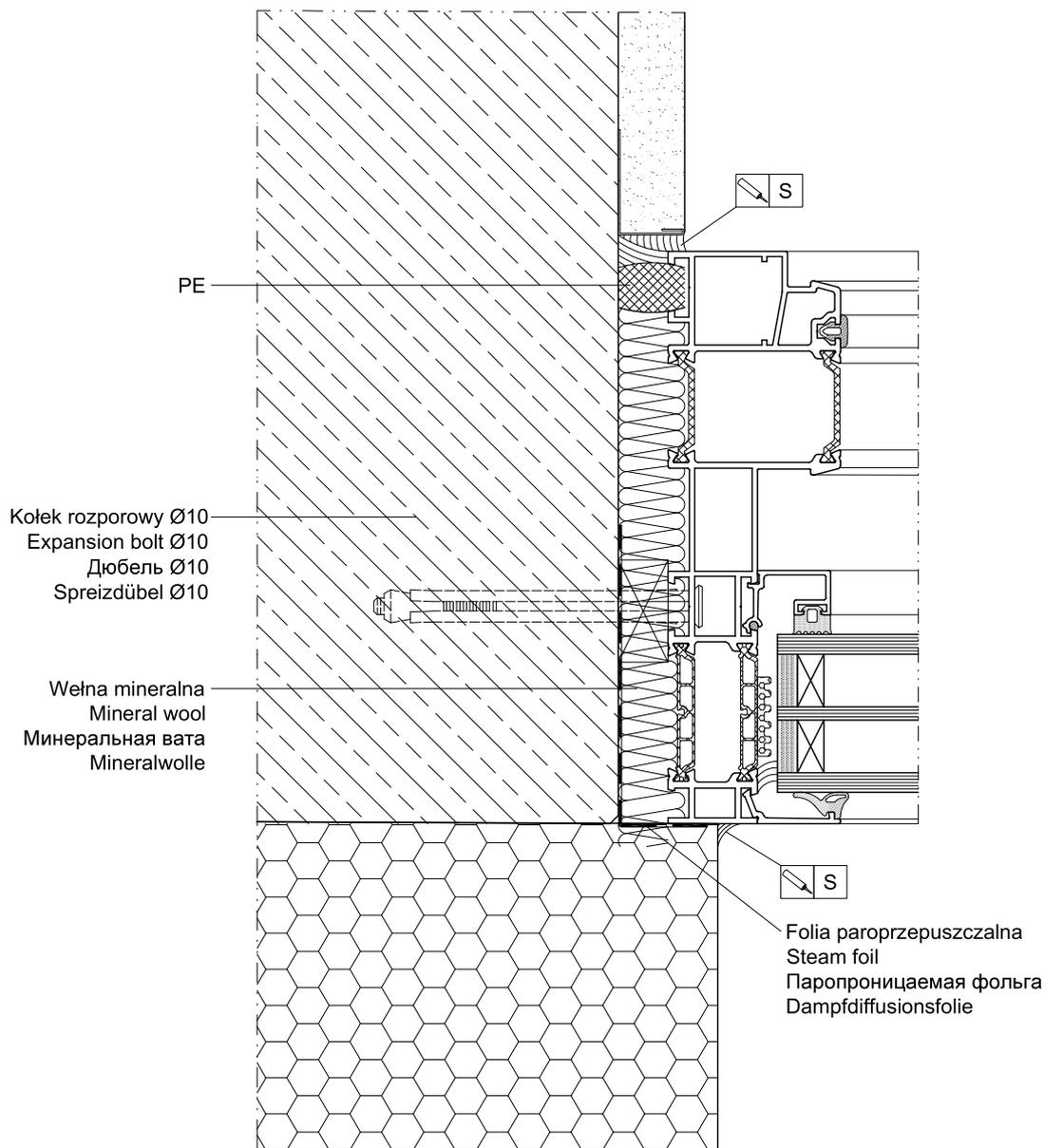


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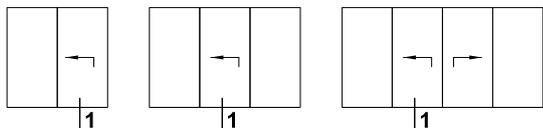


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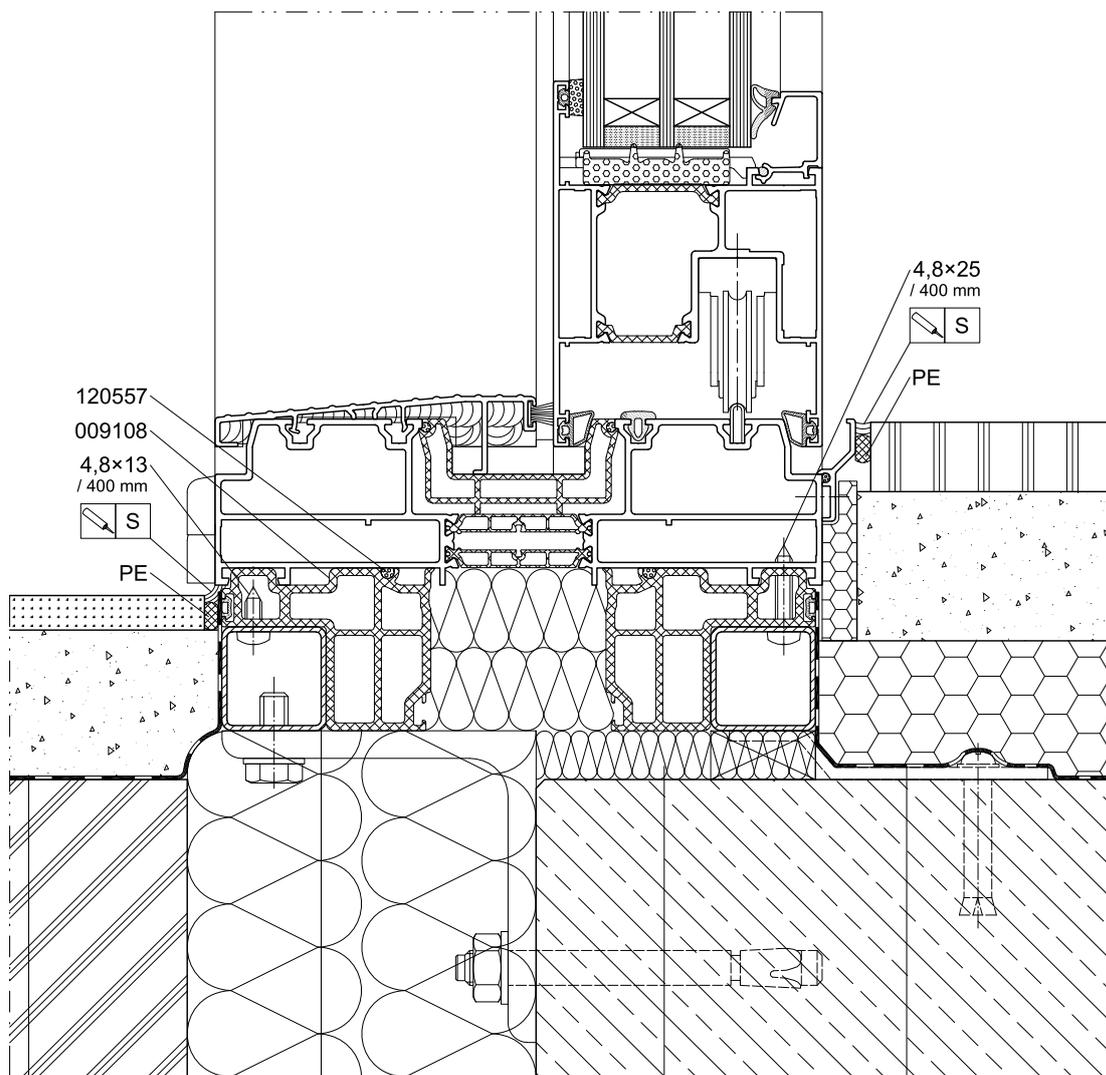


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120562

Folia paroprzepuszczalna
Steam foil
Паропроницаемая фольга
Dampffolie

Rura stalowa 30×30 mm
Steel tube 30×30 mm
Стальная труба 30×30 mm
Stahlrohr 30×30 mm

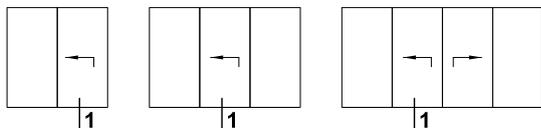
Wetna mineralna
Mineral wool
Минеральная вата
Mineralwolle

120965

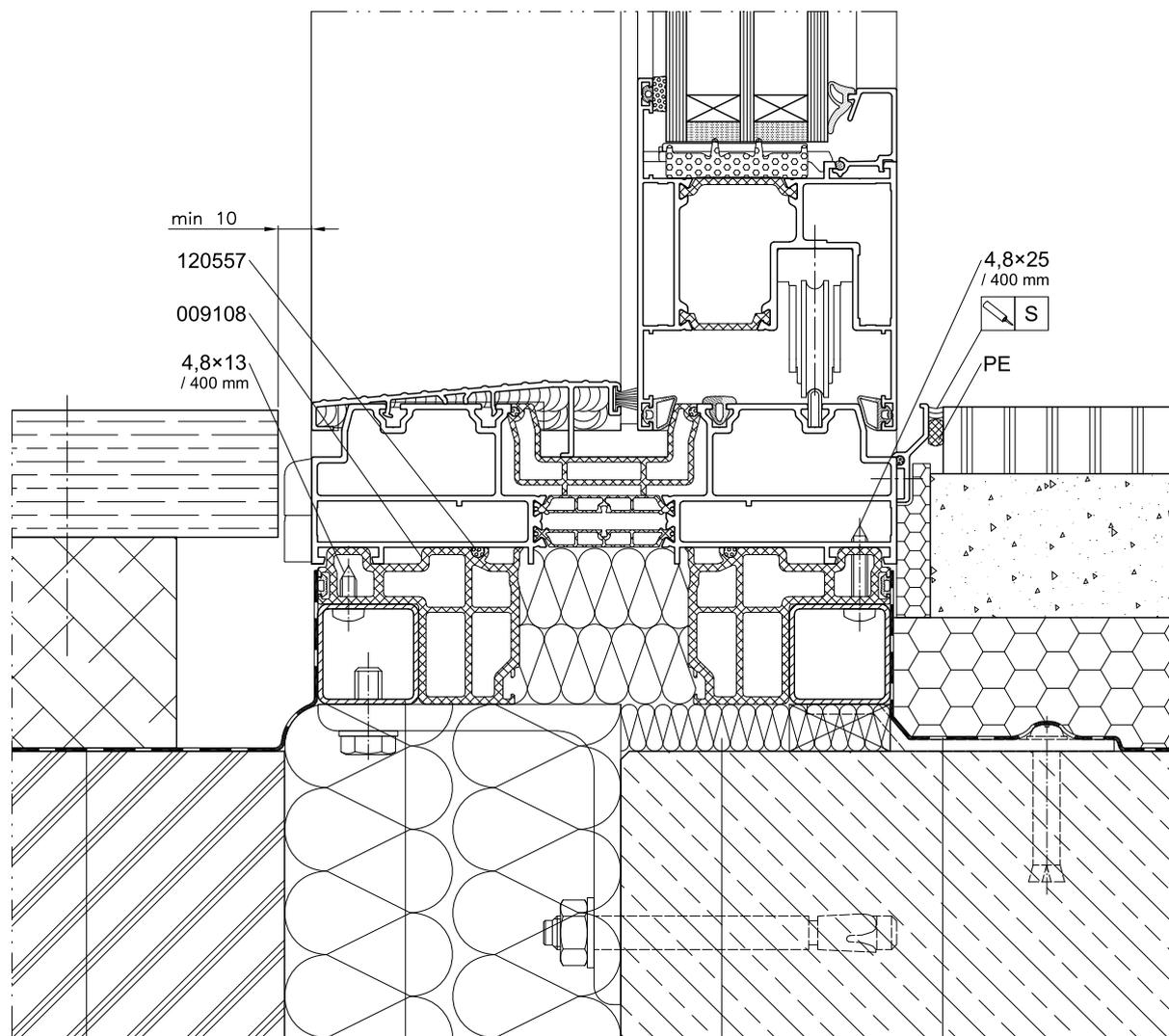
Folia paroszczelna
Steam-tight foil
Паронепроницаемая фольга
Dampfsisolierfolie

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Steam foil
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Dampffolie

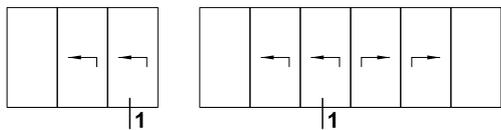
Rura stalowa 30×30 mm
Steel tube 30×30 mm
Стальная труба 30×30 mm
Stahlrohr 30×30 mm

Wetna mineralna
Mineral wool
Минеральная вата
Mineralwolle

120965
Folia paroszczelna
Steam-tight foil
Паронепроницаемая фольга
Dampfsolierfolie

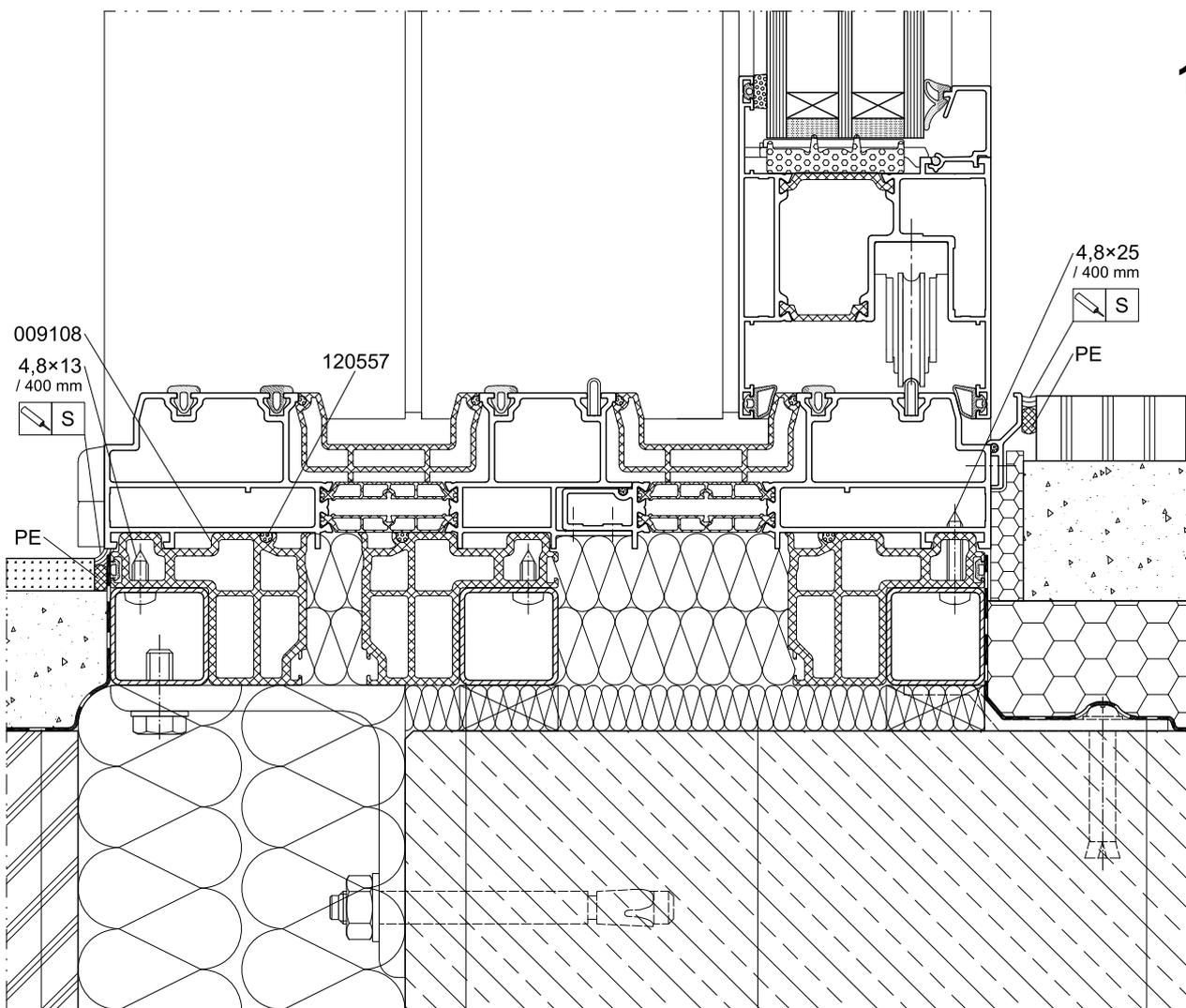
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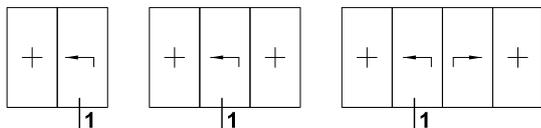
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Dampfsolierfolie

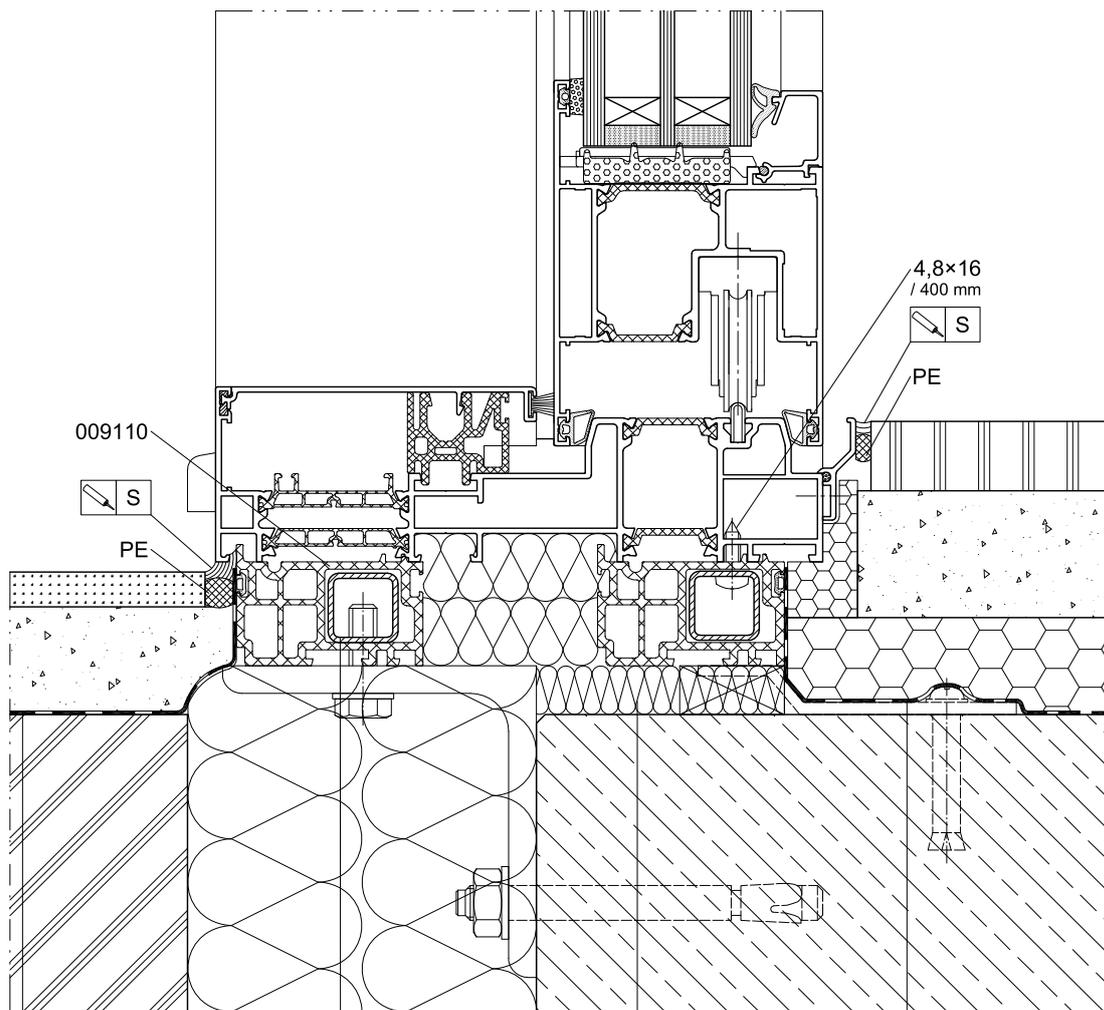


Osadzenie w murze warstwowym.
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1:2,2 



120562

Folia paroprzepuszczalna
Steam foil
Паропроницаемая фольга
Dampffolie

Rura stalowa 20×20 mm
Steel tube 20×20 mm
Стальная труба 20×20 mm
Stahlrohr 20×20 mm

Wetna mineralna
Mineral wool
Минеральная вата
Mineralwolle

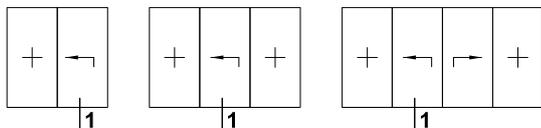
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Folia paroszczelna
Steam-tight foil
Паронепроницаемая фольга
Dampfsolierfolie

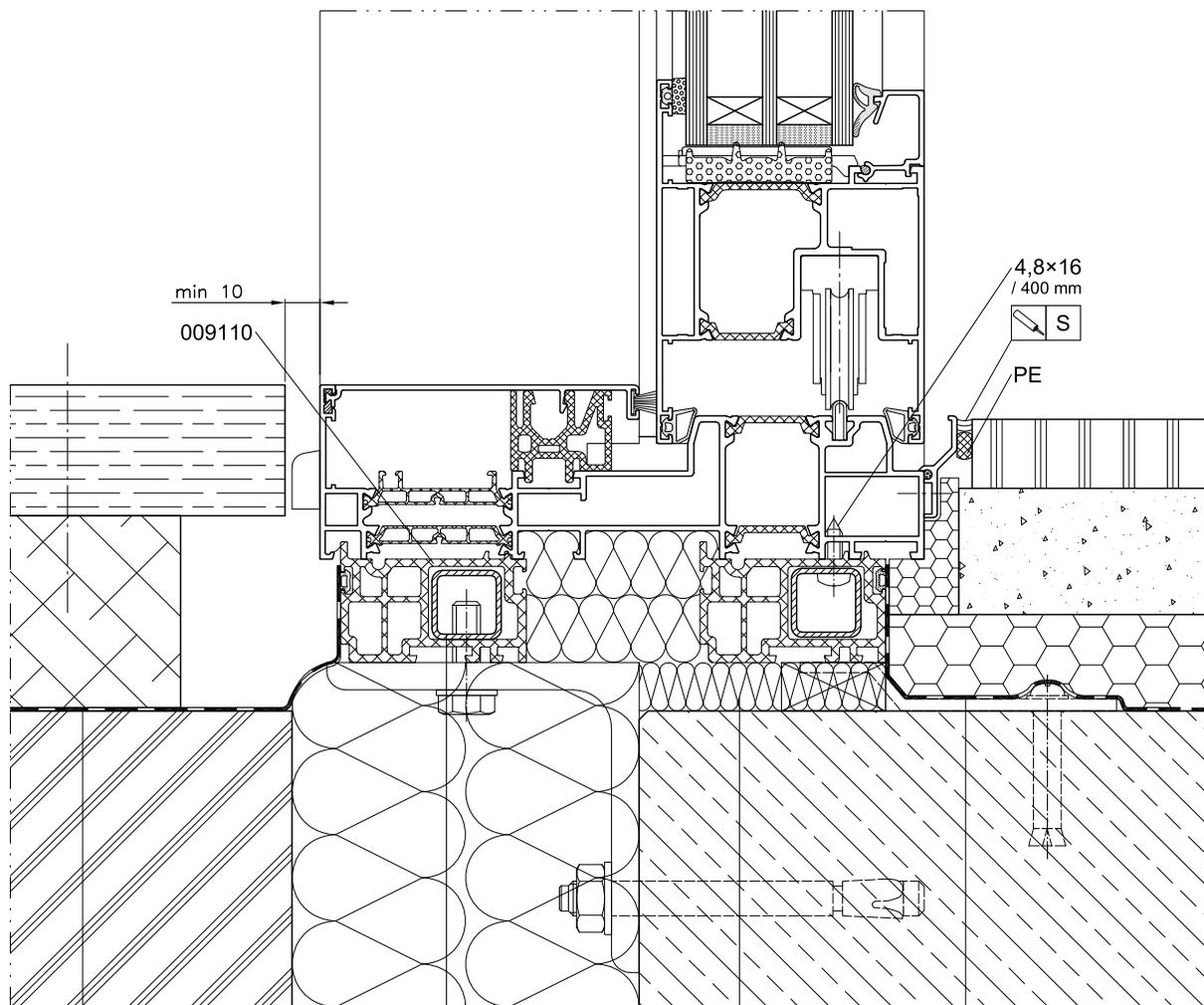


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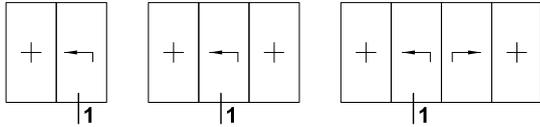
Rura stalowa 20×20 mm
Steel tube 20×20 mm
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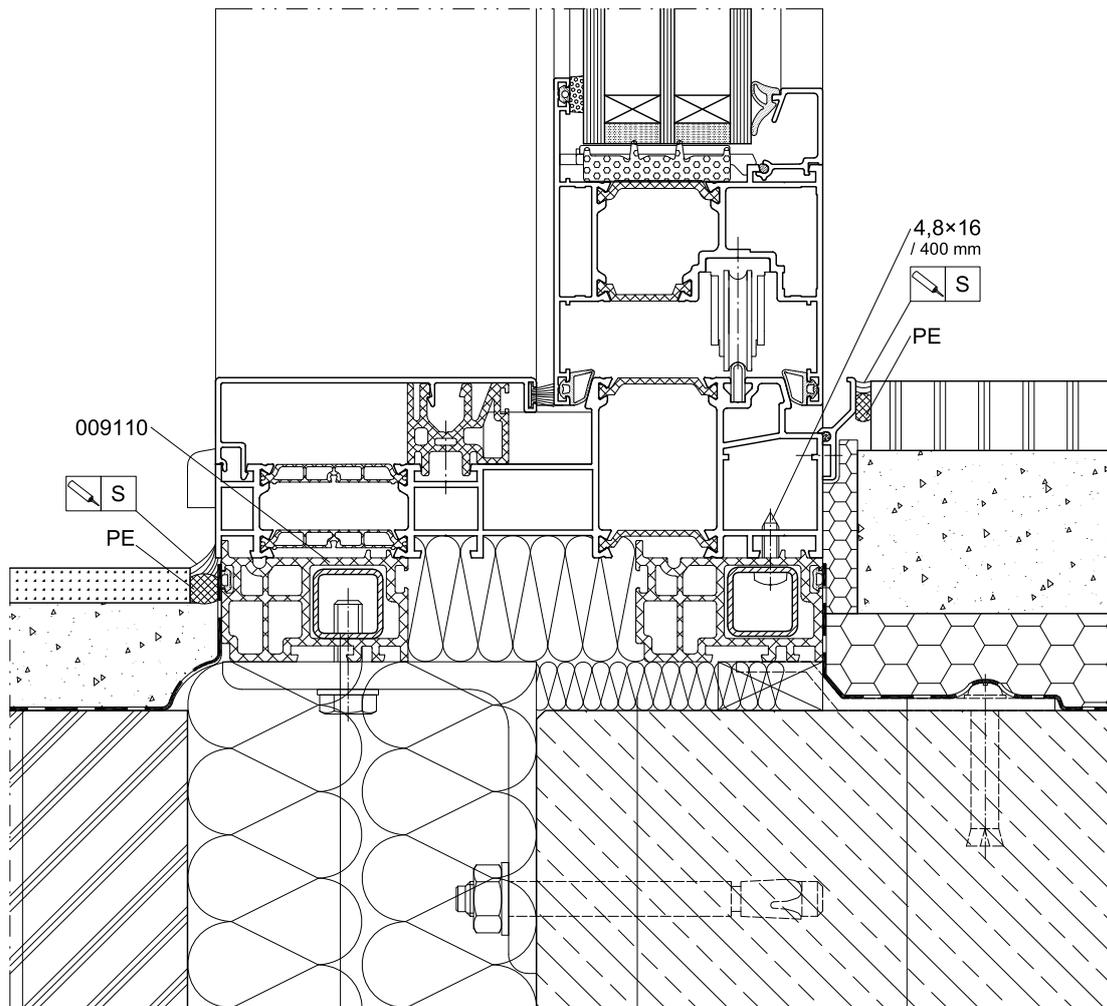
120965
Folia paroszczelna
Steam-tight foil
Паронепроницаемая фольга
Dampfsisolierfolie

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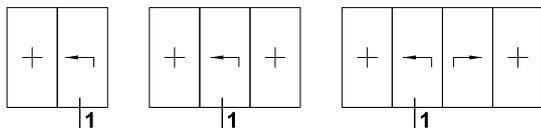
Rura stalowa 20×20 mm
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Стальная труба 20×20 mm
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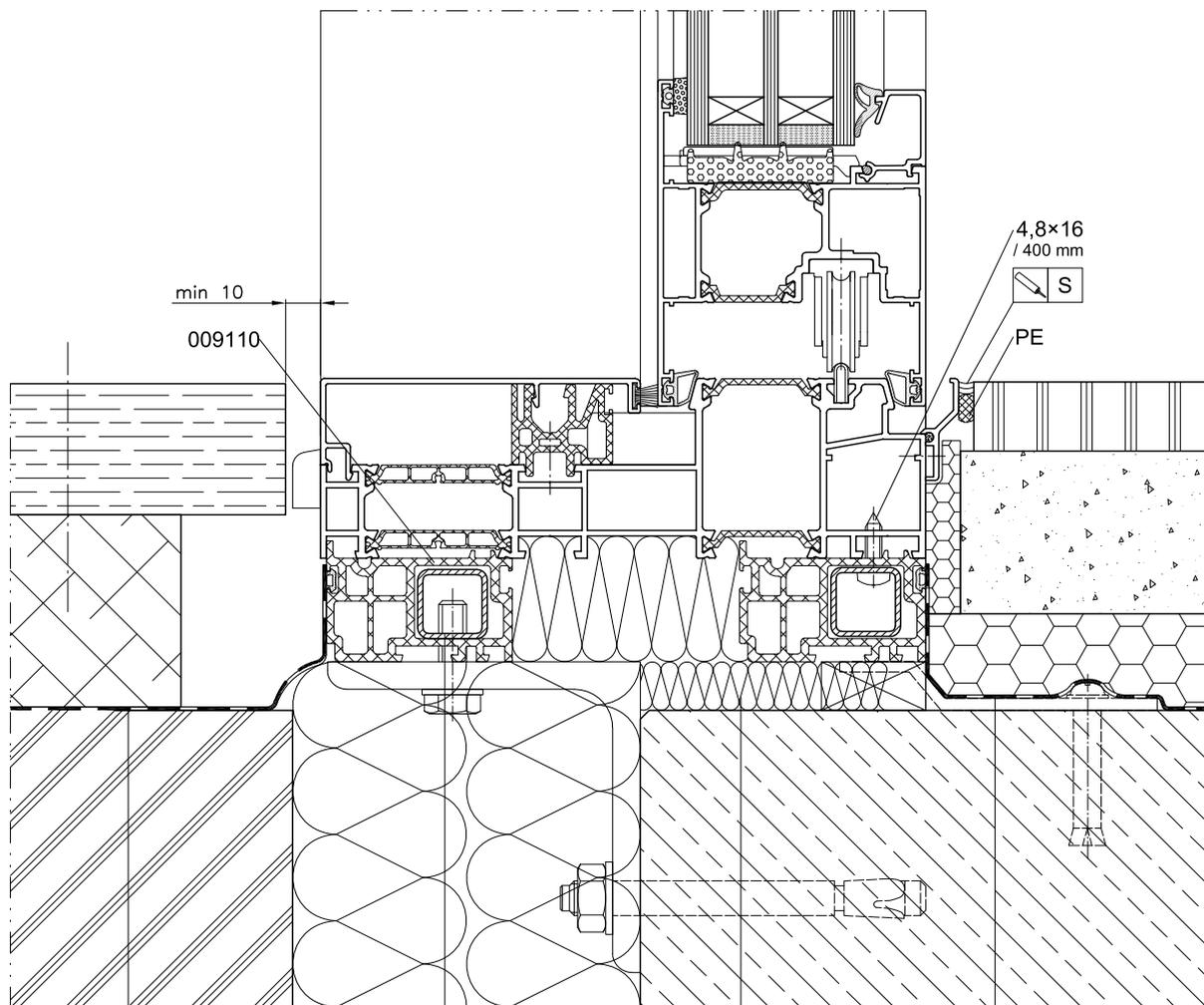
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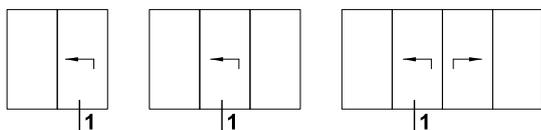
Rura stalowa 20×20 mm
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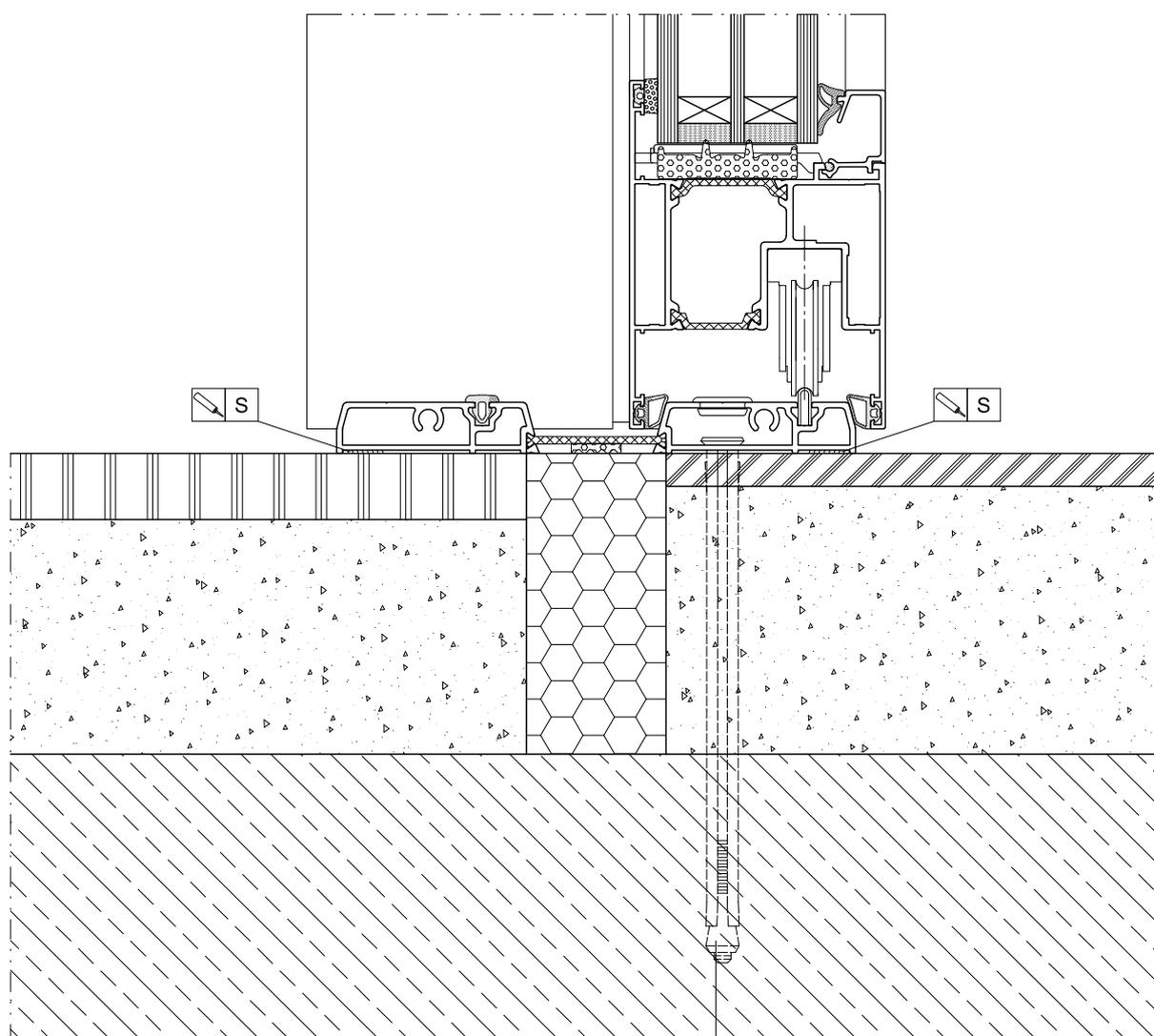
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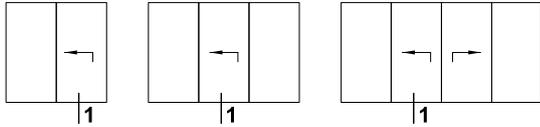
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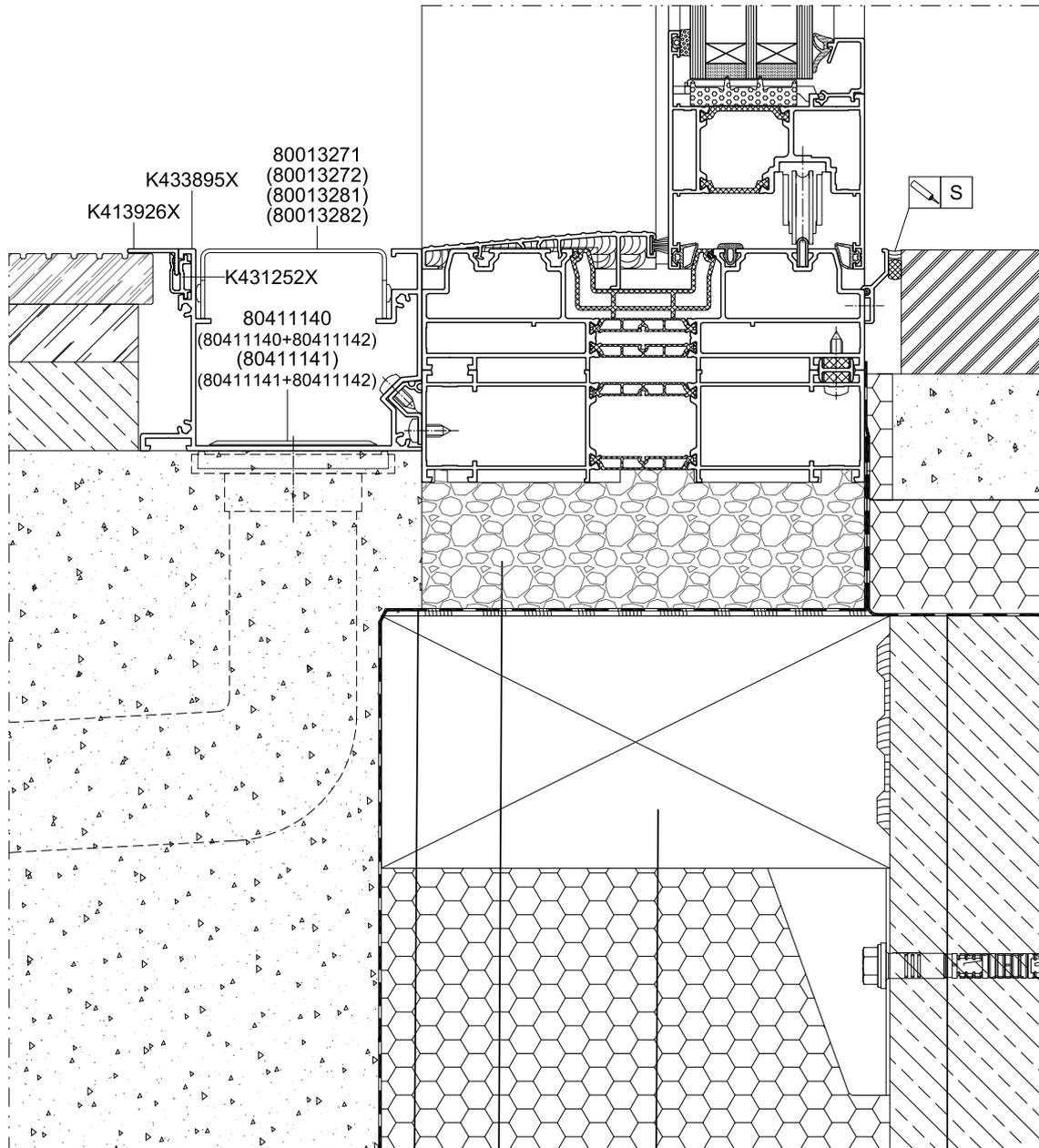
Kolek rozporowy Ø10
Expansion bolt Ø10
Дюбель Ø10
Spreizdübel Ø10

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EPDM

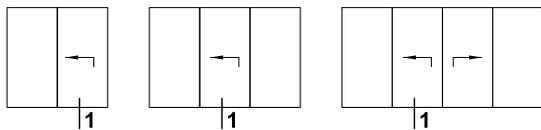
MB-INSTALLATION
SOLLUTION

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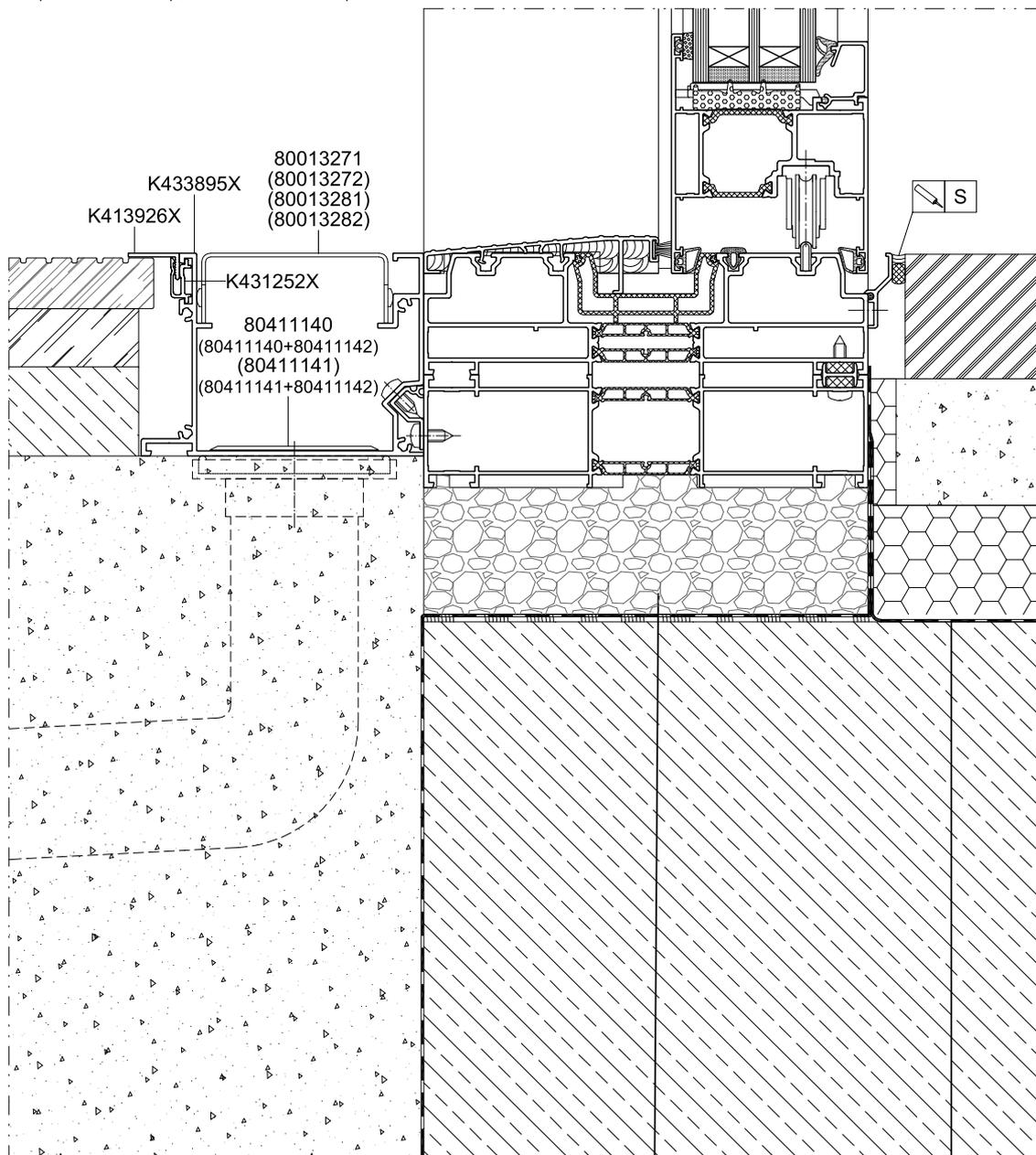
Folia paroszczelna
Steam-tight foil
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Dampfsolierfolie

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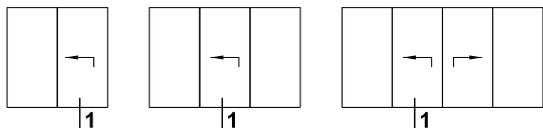
EPDM

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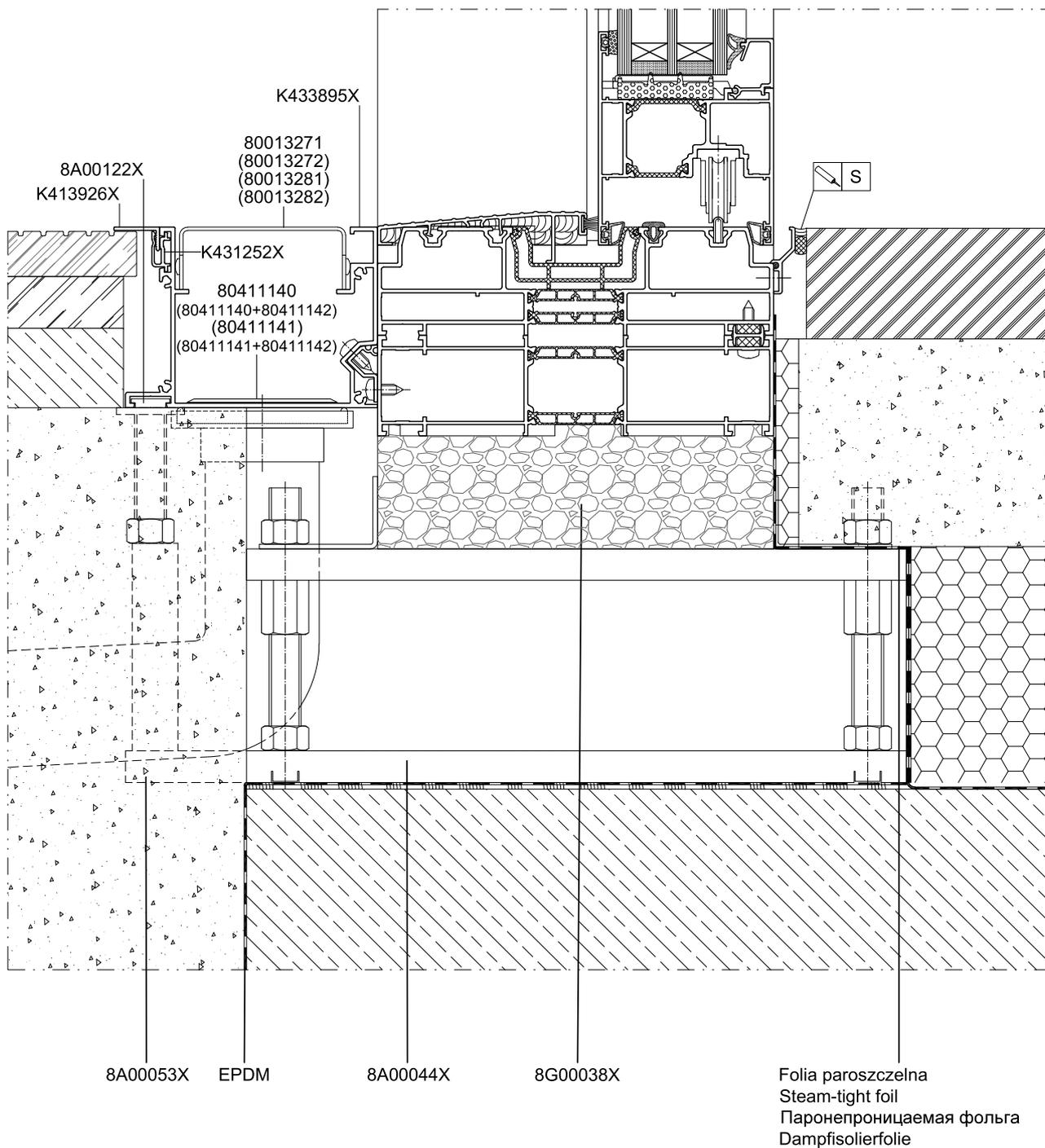
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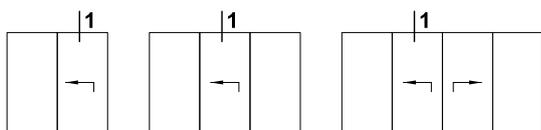
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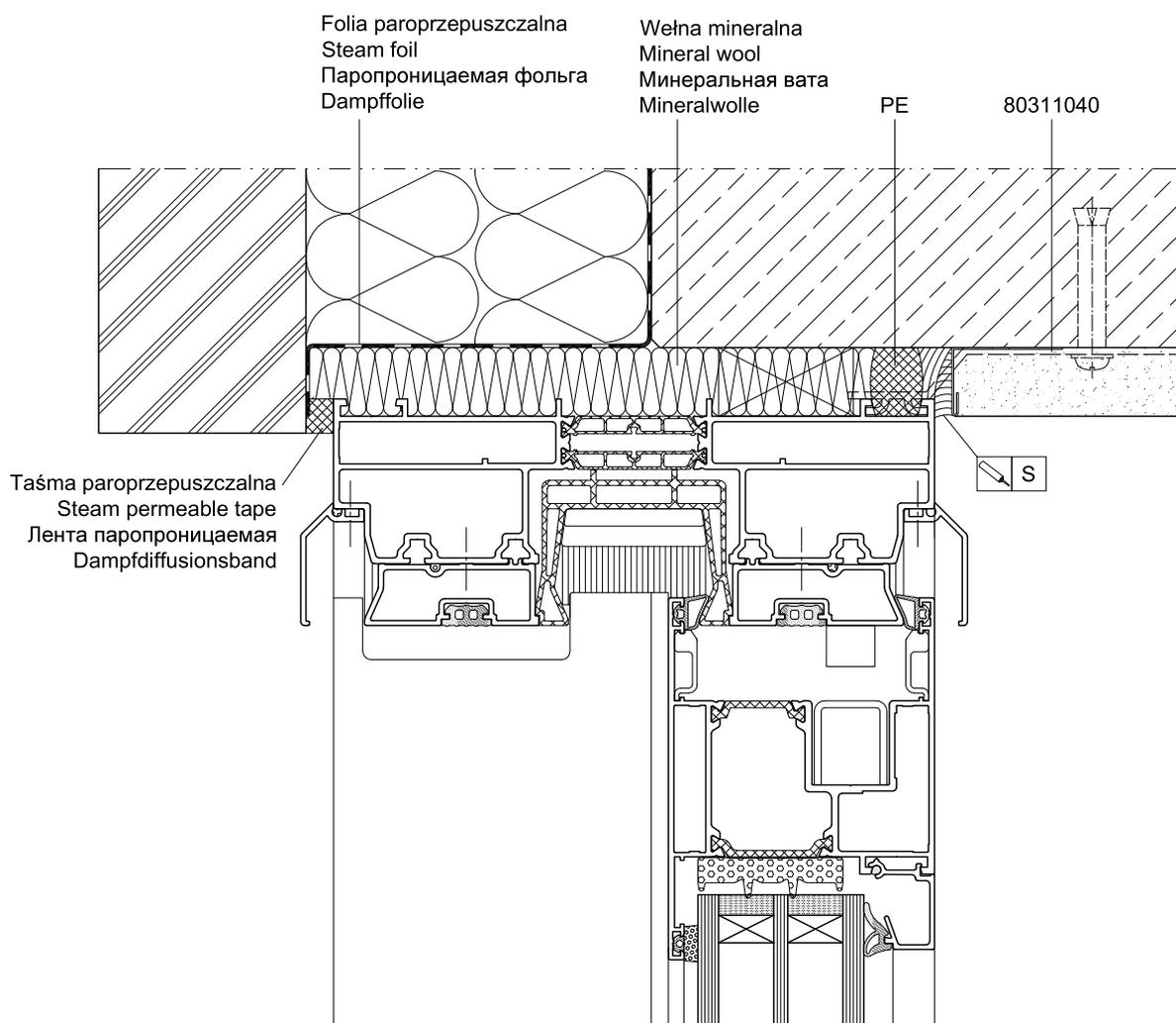
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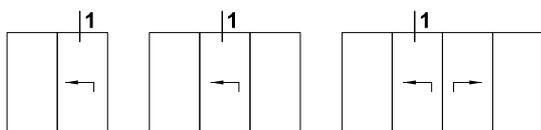


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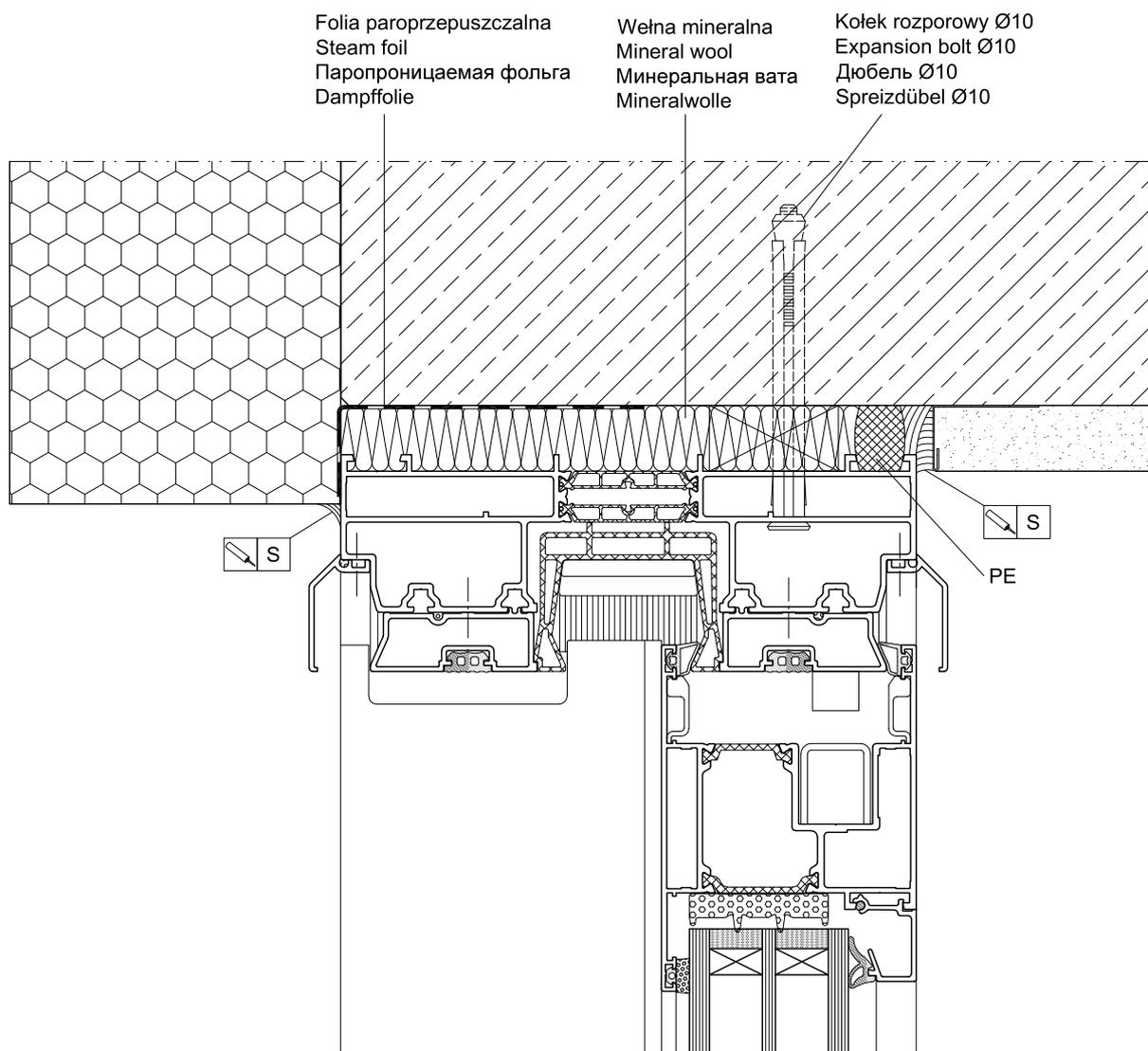


 Osadzenie w murze warstwowym.
Setting in a sandwich wall.
Застройка в многослойной стене.
Anschlagens in einer Schichtenmauer.

1

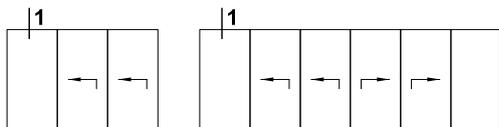


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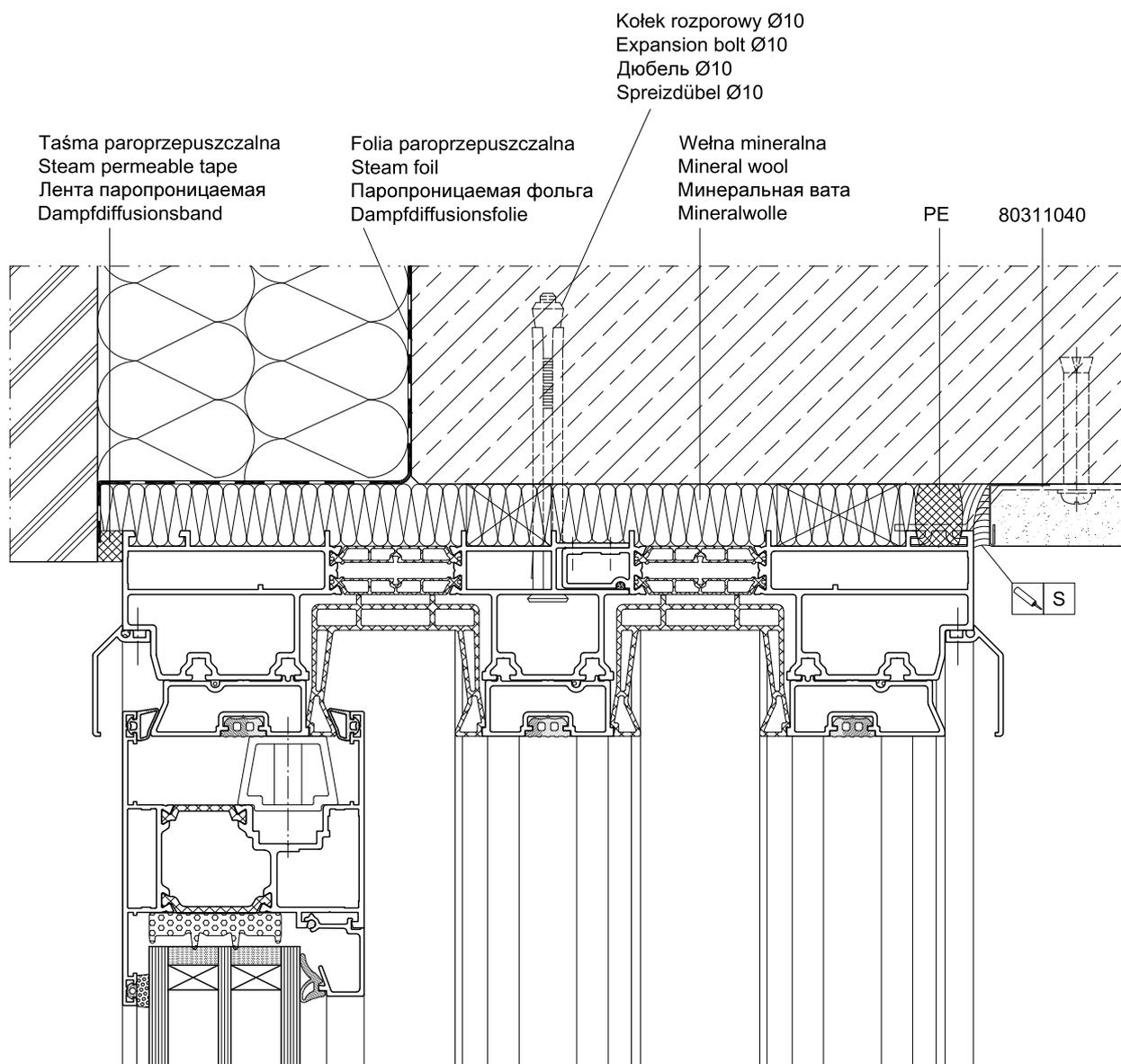


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1

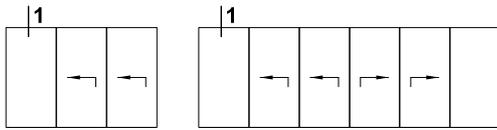


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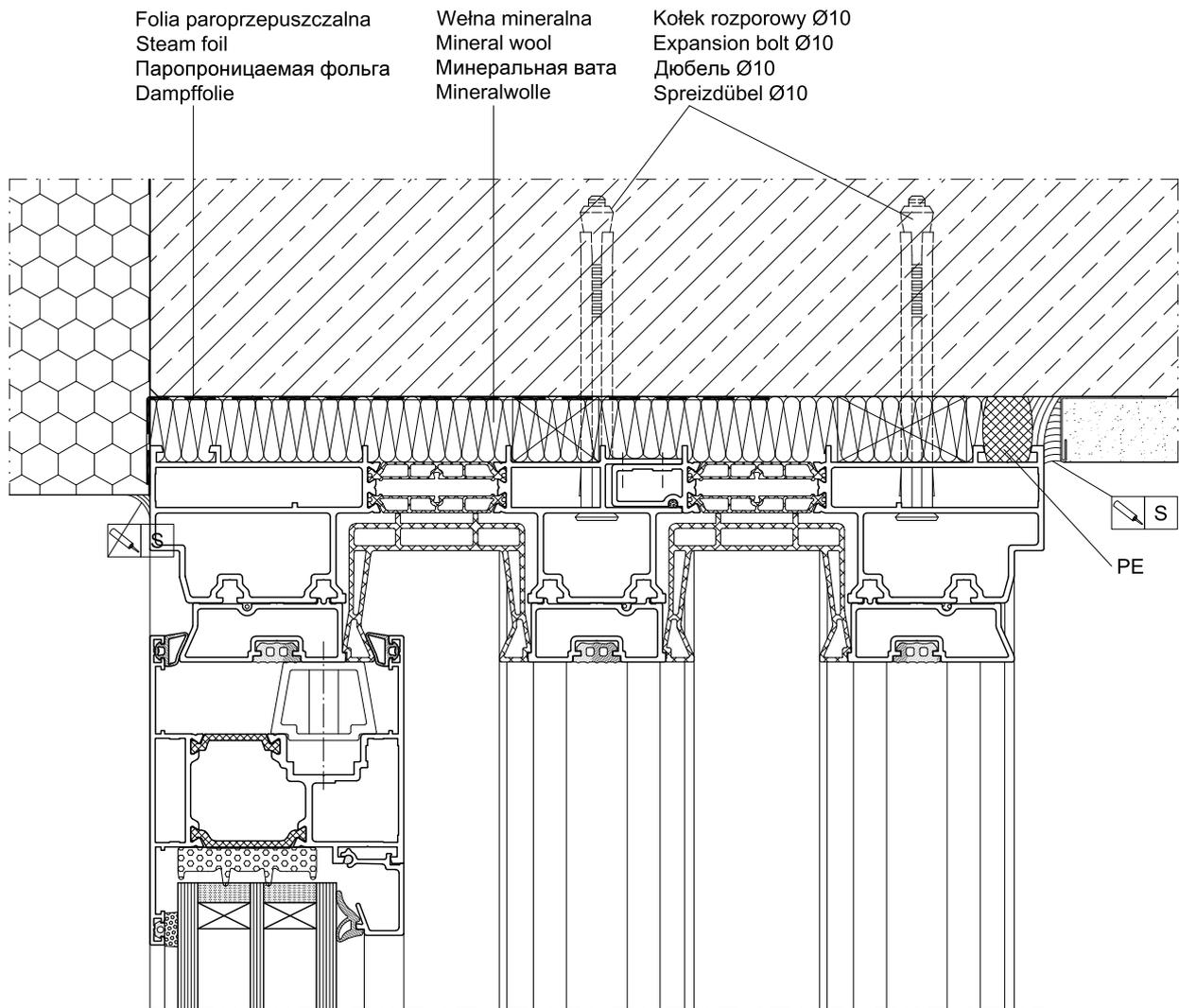


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1

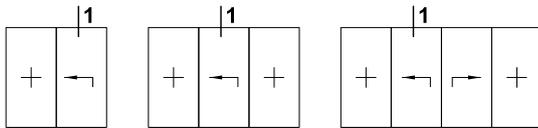


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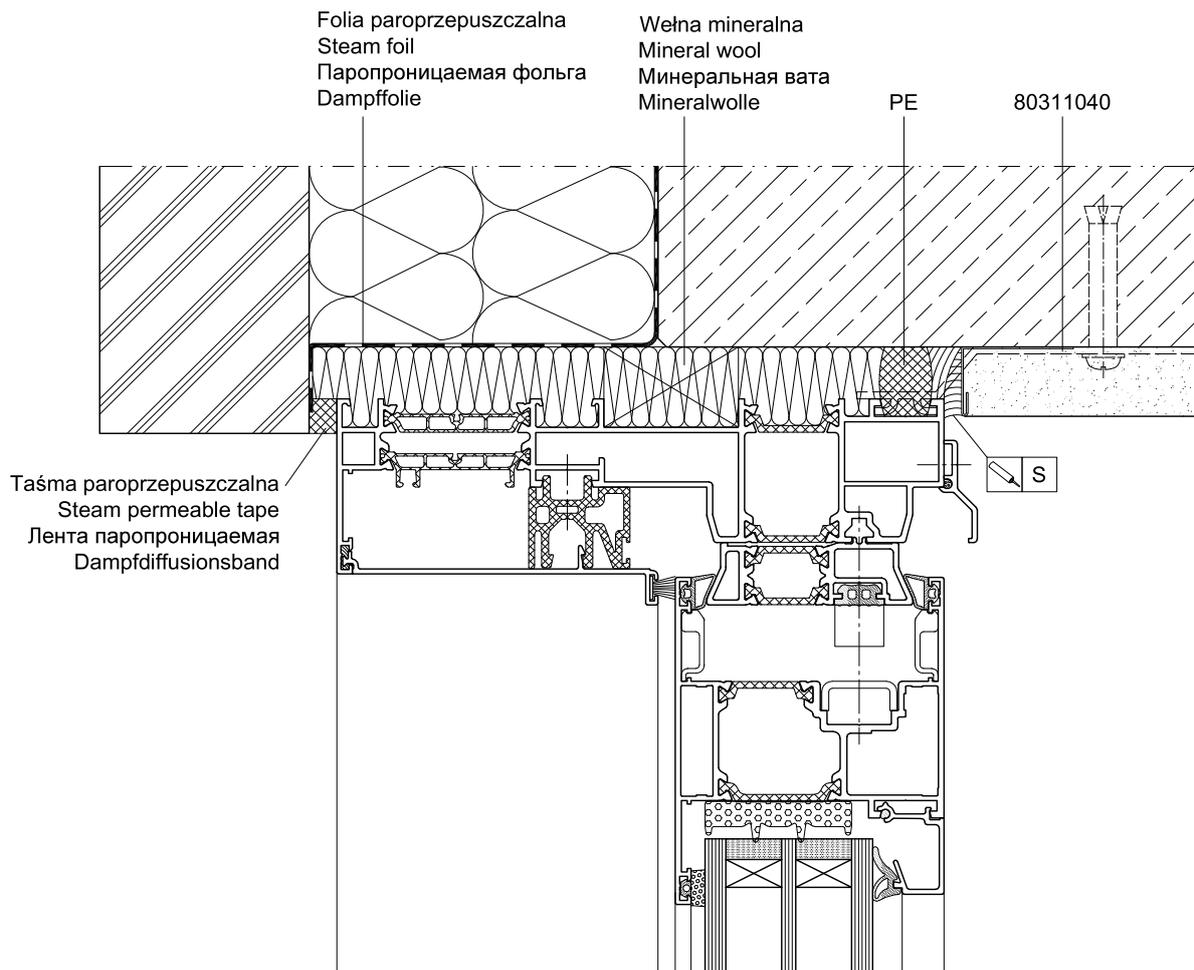


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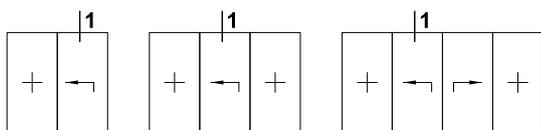


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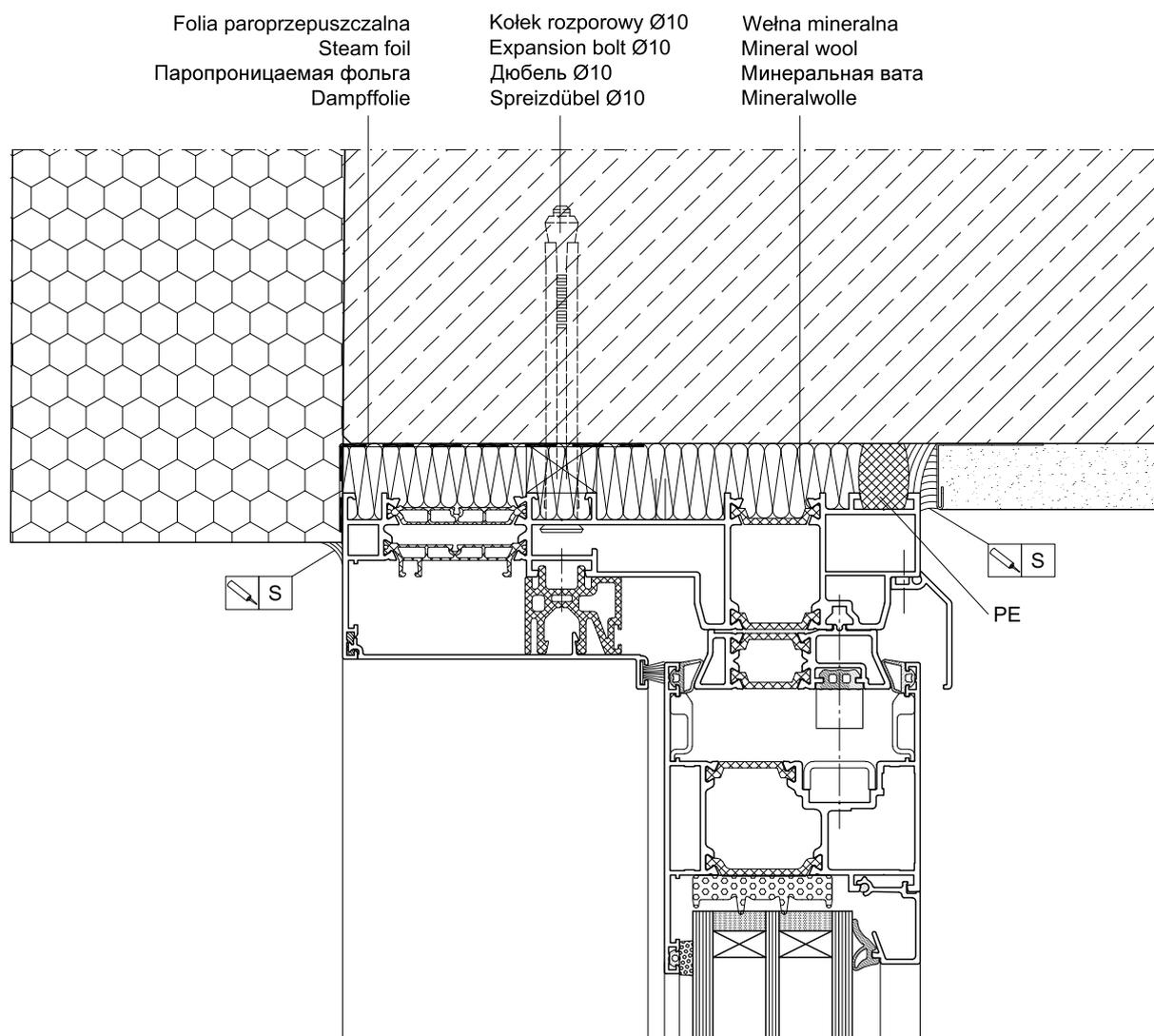


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Anschlagens in einer Schichtenmauer.

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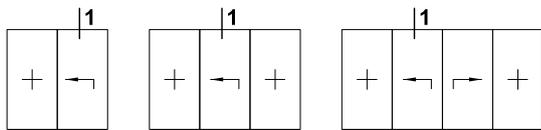


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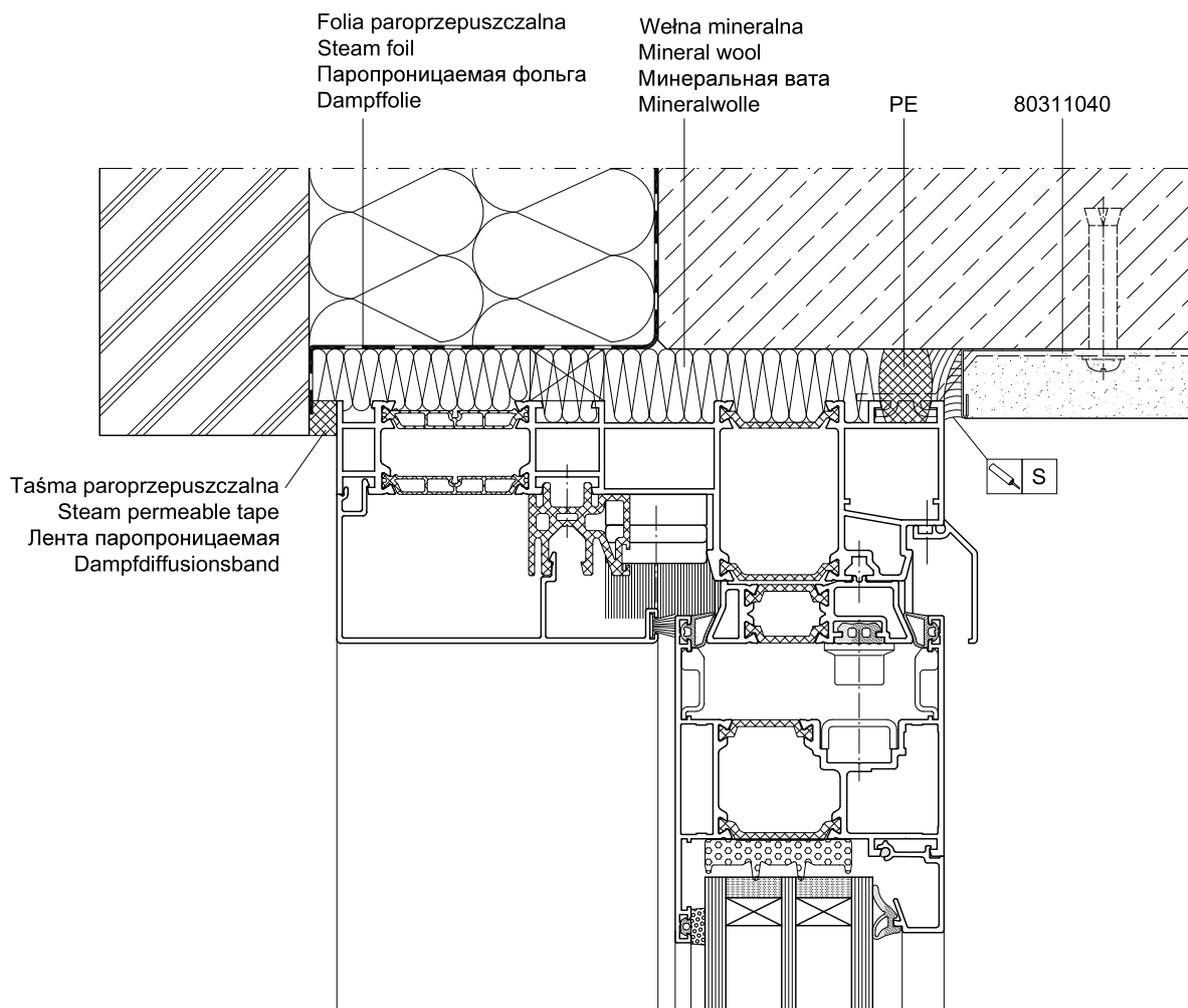


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Anschlagens in einer Schichtenmauer.

1

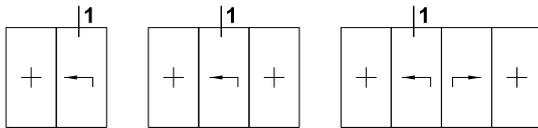


1:2,2 



 Osadzenie w murze warstwowym.
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Застройка в многослойной стене.
Anschlagens in einer Schichtenmauer.

1

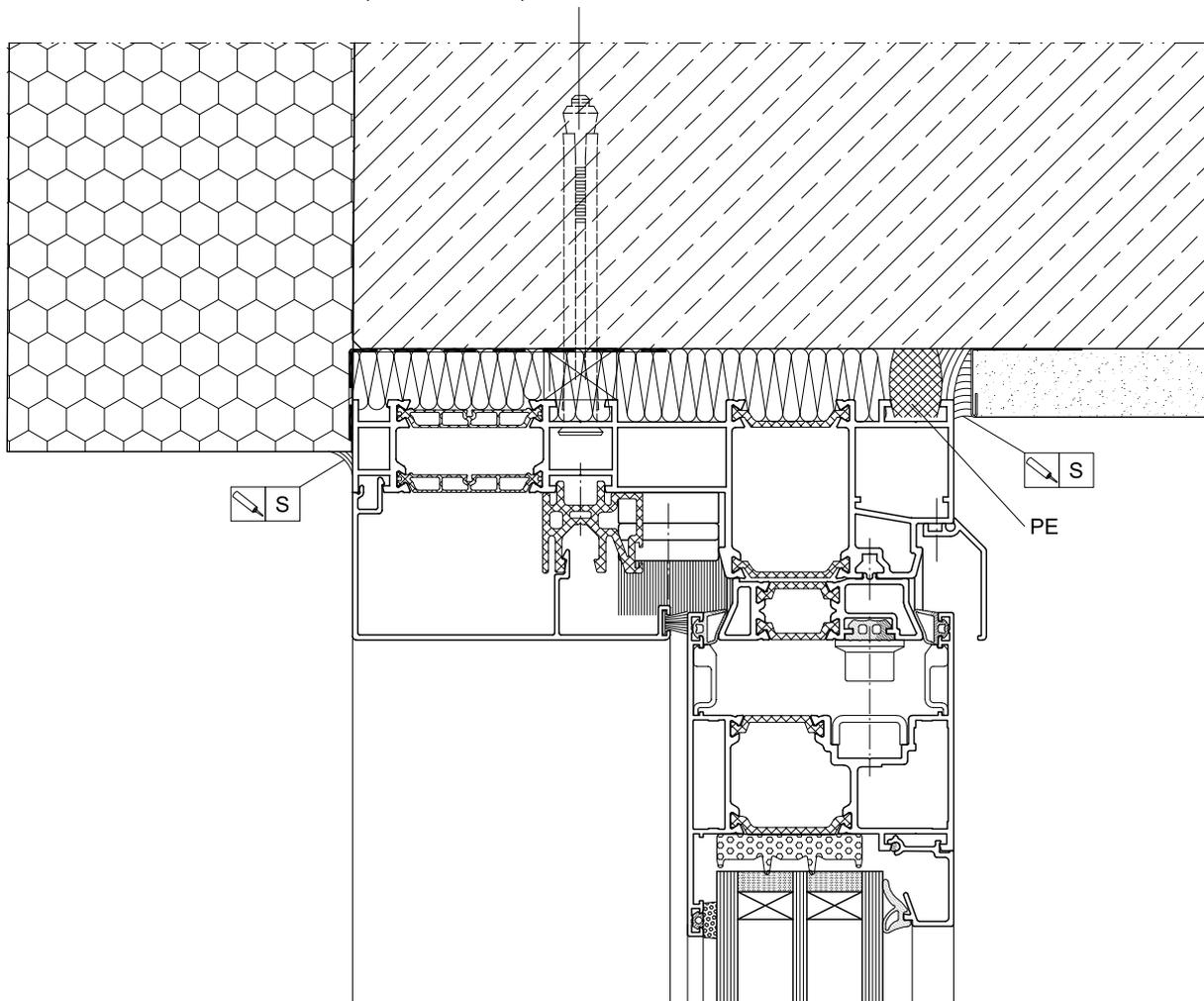


1:2,2

Folia paroprzepuszczalna
Steam foil
Паропроницаемая фольга
Dampffolie

Kolek rozporowy Ø10
Expansion bolt Ø10
Дюбель Ø10
Spreizdübel Ø10

Wełna mineralna
Mineral wool
Минеральная вата
Mineralwolle



Osadzenie w murze warstwowym.
Setting in a sandwich wall.
Застройка в многослойной стене.
Anschlagens in einer Schichtenmauer.

1