


Drawing nr.	Contents of drawing
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nSPB-MW-ENERGY-H02-EN	Horizontal installation, Plinth detail
nSPB-MW-ENERGY-H03-EN	Horizontal installation, Plinth detail
nSPB-MW-ENERGY-H04-EN	Horizontal installation, Plinth detail
nSPB-MW-ENERGY-H05-EN	Horizontal installation, Joints between panels
nSPB-MW-ENERGY-H06-EN	Horizontal installation, Joints between panels
nSPB-MW-ENERGY-H07-EN	Horizontal installation, Joints between panels
nSPB-MW-ENERGY-H08-EN	Horizontal installation, Window joint
nSPB-MW-ENERGY-H09-EN	Horizontal installation, Window joint
nSPB-MW-ENERGY-H10-EN	Horizontal installation, Parapet, end eaves
nSPB-MW-ENERGY-H11-EN	Horizontal installation, Roof drainage, side eaves
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nSPB-MW-ENERGY-H13-EN	Horizontal installation, Joints between panels, Joint sealing at inner groove
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nSPB-MW-ENERGY-H15-EN	Cantilever eaves / Vapor barrier, plastic membrane / Hollow core slab
nSPB-MW-ENERGY-H16-EN	Cantilever eaves / Vapor barrier, plastic membrane / Wood element
nSPB-MW-ENERGY-H17-EN	Cantilever eaves / Vapor barrier, bitumen membrane / Load-bearing sheet
nSPB-MW-ENERGY-H18-EN	Cantilever eaves / Vapor barrier, bitumen membrane / Hollow core slab
nSPB-MW-ENERGY-H19-EN	Round pass-through / Vapor barrier, plastic membrane / Load-bearing sheet
nSPB-MW-ENERGY-H20-EN	Round pass-through / Vapor barrier, plastic membrane / Hollow core slab
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nSPB-MW-ENERGY-H22-EN	Round pass-through / Vapor barrier, bitumen membrane / Hollow core slab
nSPB-MW-ENERGY-H23-EN	Smoke hatch / Vapor barrier, plastic membrane / Load-bearing sheet
nSPB-MW-ENERGY-H24-EN	Smoke hatch / Vapor barrier, plastic membrane / Hollow core slab
nSPB-MW-ENERGY-H25-EN	Smoke hatch / Vapor barrier, bitumen membrane / Load-bearing sheet
nSPB-MW-ENERGY-H26-EN	Smoke hatch / Vapor barrier, bitumen membrane / Hollow core slab

City sector	Block	Site/Reg. nr.	File nr.			
Building type			Drawing type			Nr.
Building, Name and address			Contents of drawing			Scale
<div><div><p>Ruukki Construction Oy Vimpelintie 661 FI - 62900 ALAJÄRVI FINLAND</p></div><div><p>tel +358 2059 127 fax +358 2059 27700 www.ruukki.com</p></div></div>			Sandwich panel nSPB MW ENERGY PRINCIPLE DETAIL DRAWINGS External walls (26 pcs)			
Date	Designer		Work nr.	Work nr.	Drw. nr.	Rev.
28.10.2022						
Drawn by	Checked					
Ruukki						



Contents of drawing

Sandwich panel nSPB MW ENERGY  
Accessory numbers in details

Date 28.10.2022	Rev. date	Work nr.	Drawing nr. SP2B-MW-ENERGY-00-EN
Drawn by Ruukki	Rev.		
Scale	Building		File nr.

### SANDWICH PANELS

001. Sandwich panel nSPB MW ENERGY 160-230

321. Elastic sealant

325. Elastic sealant during installation

### FLASHINGS

100. Standard purlins and starter tracks

327. Elastic polyurethane, eg. Illbruck FM330 or FM637

101-109. Purlins and other  $t \geq 2$  mm fastening flashings

328. Elastic sealant

111-119. Plinth flashings

332. PU foam

121-124. Internal flashings

### ADDITIONAL

131-159. Vertical seam-, external- and internal corner flashings

351. Z-Profile

161-179. Eave flashings

181-194. Window- and door flashings

### FASTENERS

201. Self-drilling element screw, washer with sealing

231. Flashing fastener, washer with sealing

232. Flashing fastener, without washer

234. Flat headed flashing fastener

252. Concrete screw panel fastener, washer with sealing

265. Fastener screw to wood, washer with sealing

266. Concrete screw

271. Rivet

### SEALANTS AND INSULATIONS

300. Expandable sealing band

301. Plinth sealing expanding

302. Sealing band for flashings

303. Sealing band for frame

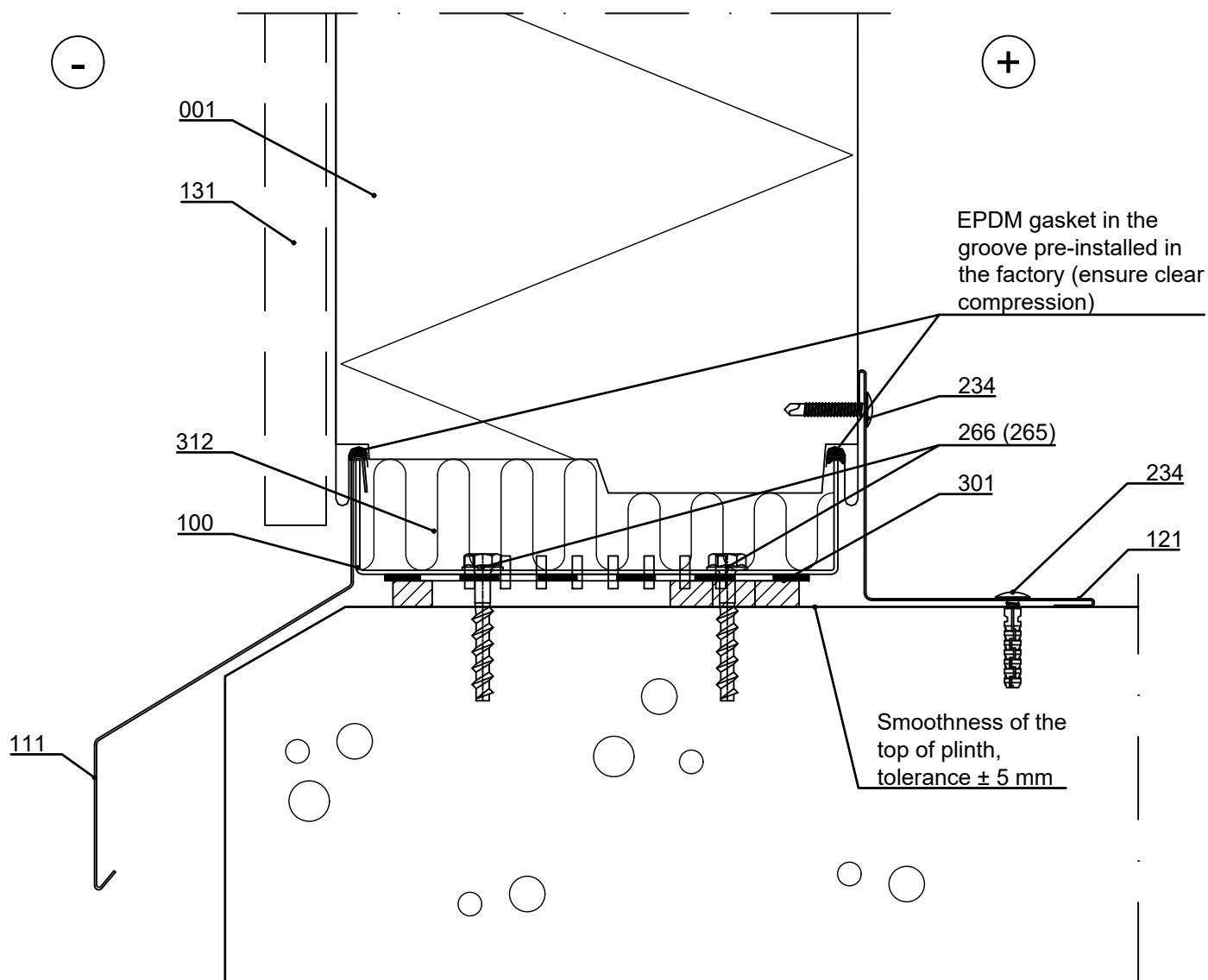
307. Joint sealing Nordic

308. Joint sealing corner Nordic

311. Mineral wool

312. Mineral wool band

Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H01-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

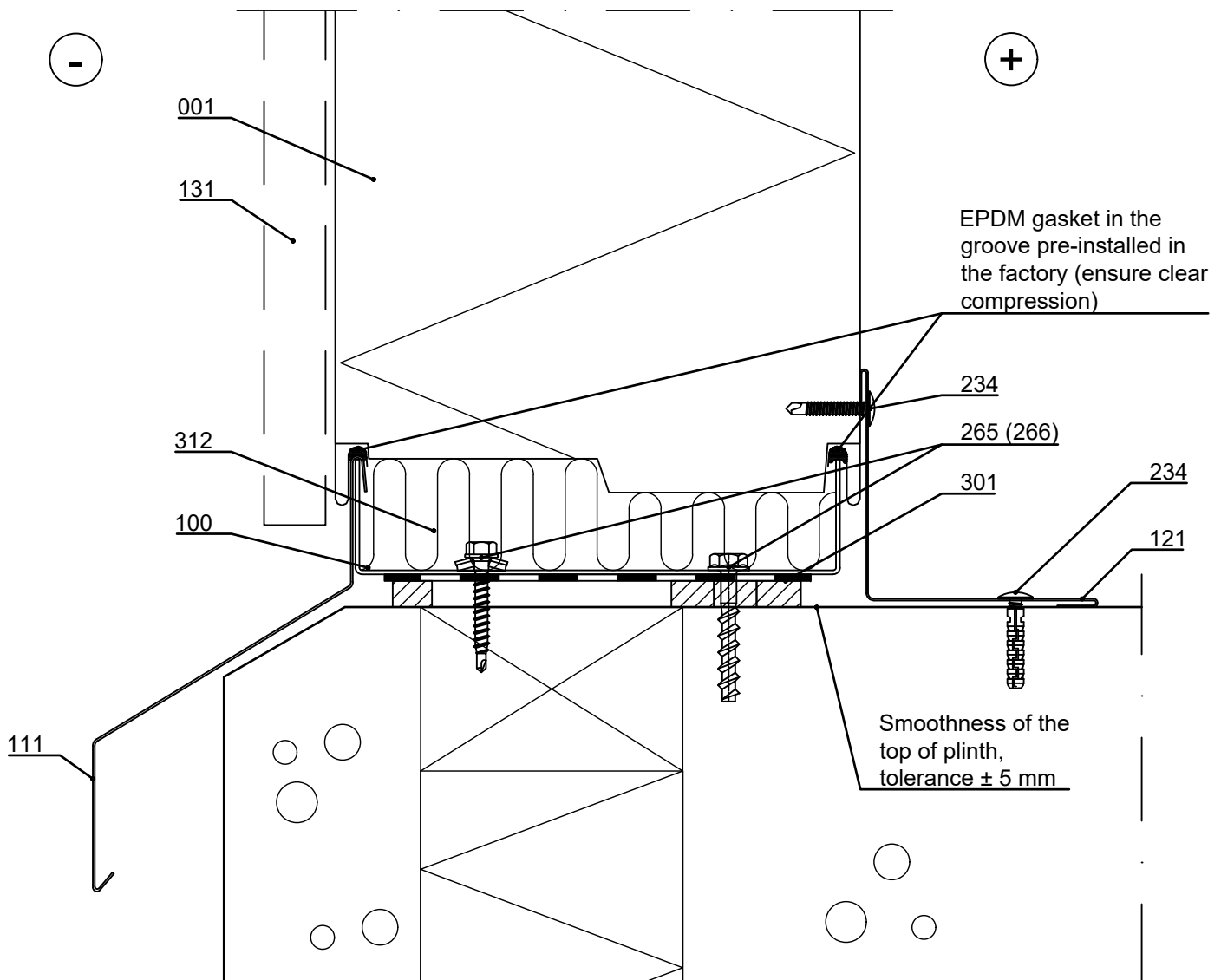


- ☐ 001. Sandwich panel nSPB MW ENERGY
- ☐ 100. Starter track
- ☐ 111. /EA1P3/ Plinth flashing (installed simultaneously with elements)
- ☐ 121. /EA1B05\_ / Internal flashing
- ☐ 131. /EA1B16/ Vertical joint flashing
- ☐ 234. Flat head flashing fastener
- ☐ 265. /S3H55042WA4B/ Fastener, wood c/c600
- ☐ 266. Concrete-screw, concrete c/c600
- ☐ 301. /EA3PSE/ Plinth sealing expanding (wider sealing on internal side)
- ☐ 312. /EAWS\_\_\_/ Mineral wool band

☒ Ruukki's delivery

Sandwich panel nSPB MW ENERGY  
Horizontal installation - Plinth detail  
Vertical section, Option 2

Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H02-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

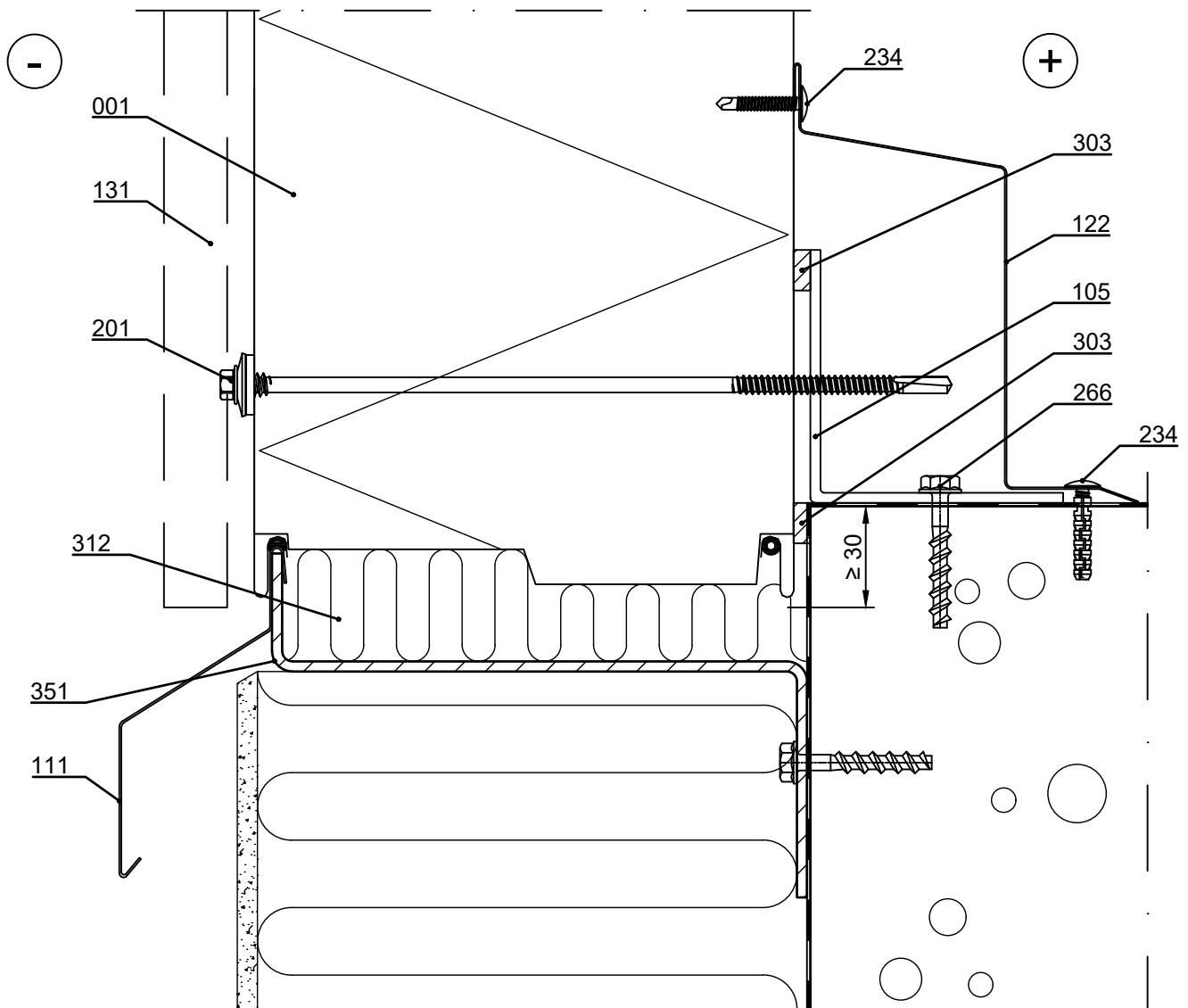


- ☐ 001. Sandwich panel nSPB MW ENERGY
- ☐ 100. Starter track
- ☐ 111. /EA1P3/ Plinth flashing (installed simultaneously with elements)
- ☐ 121. /EA1B05\_ / Internal flashing
- ☐ 131. /EA1B16/ Vertical joint flashing
- ☐ 234. Flat head flashing fastener
- ☐ 265. /S3H55042WA4B/ Fastener, wood c/c600
- ☐ 266. Concrete-screw, concrete c/c600
- ☐ 301. /EA3PSE/ Plinth sealing expanding (wider sealing on internal side)
- ☐ 312. /EAWS\_\_\_/ Mineral wool band

☒ Ruukki's delivery

Sandwich panel nSPB MW ENERGY  
Horizontal installation - Plinth detail  
Vertical section, Option 3

Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H03-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



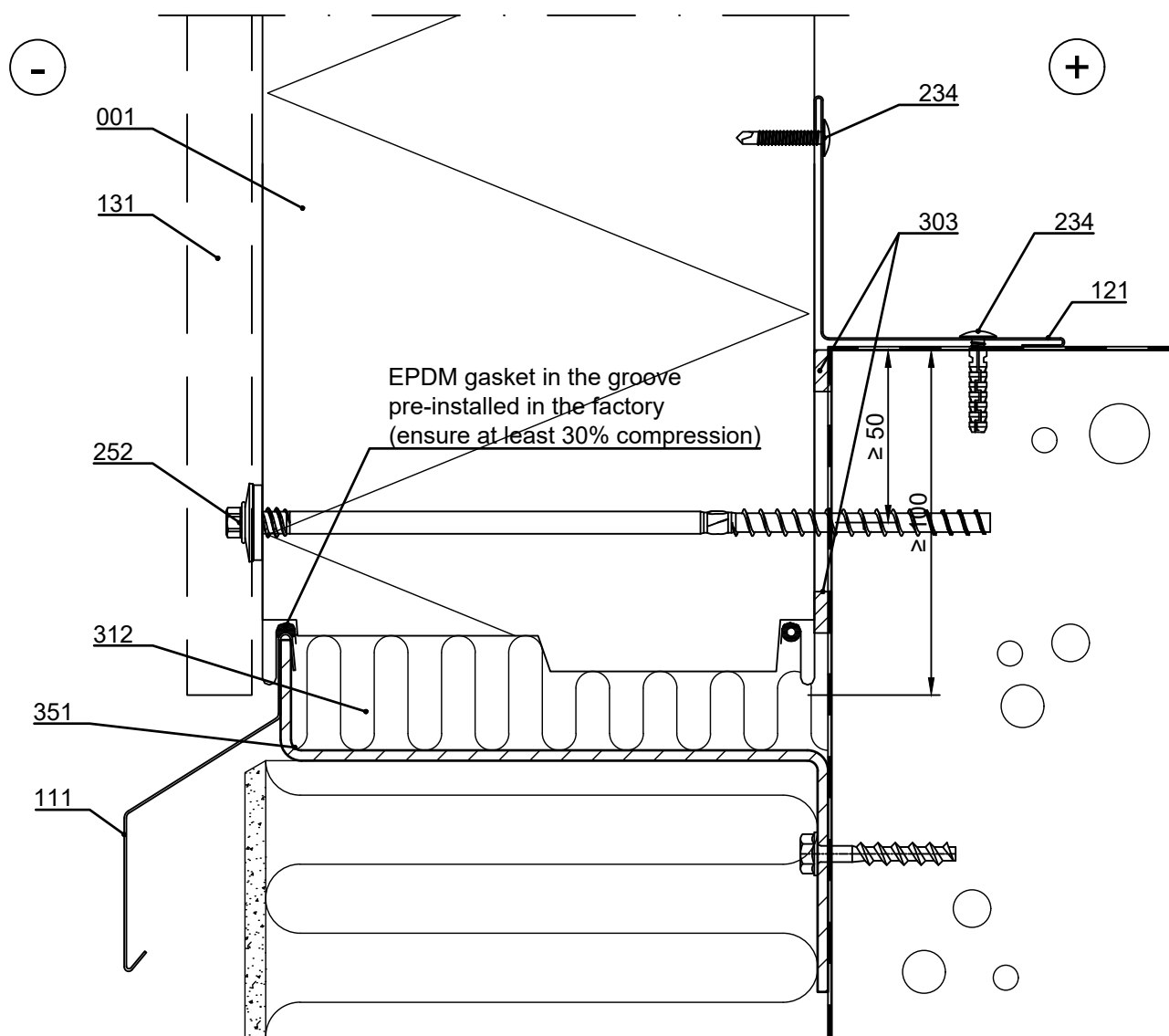
- ☐ 001. Sandwich panel nSPB MW ENERGY
- ☐ 105. /EA1L7530ZN/ Support L-purlin, (t=3mm)
- ☐ 111. /EA1P3/ Plinth flashing  
(installed simultaneously with elements)
- ☐ 122. /EA1B02\_ / Internal flashing
- ☐ 131. /EA1B16/ Vertical joint flashing
- ☐ 201. Self-drilling element screw, washer with sealing

- ☐ 234. Flat head flashing fastener
- ☐ 266. Concrete-screw, concrete c/c600
- ☐ 303. /EA3SS1210/ Sealing strip
- ☐ 312. /EAWS\_\_\_/ Mineral wool band
- ☐ 351. Z-Profile (stainless steel), continuous  
acc. to project

☒ Ruukki's delivery

Sandwich panel nSPB MW ENERGY  
Horizontal installation - Plinth detail  
Vertical section, Option 4

Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H04-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

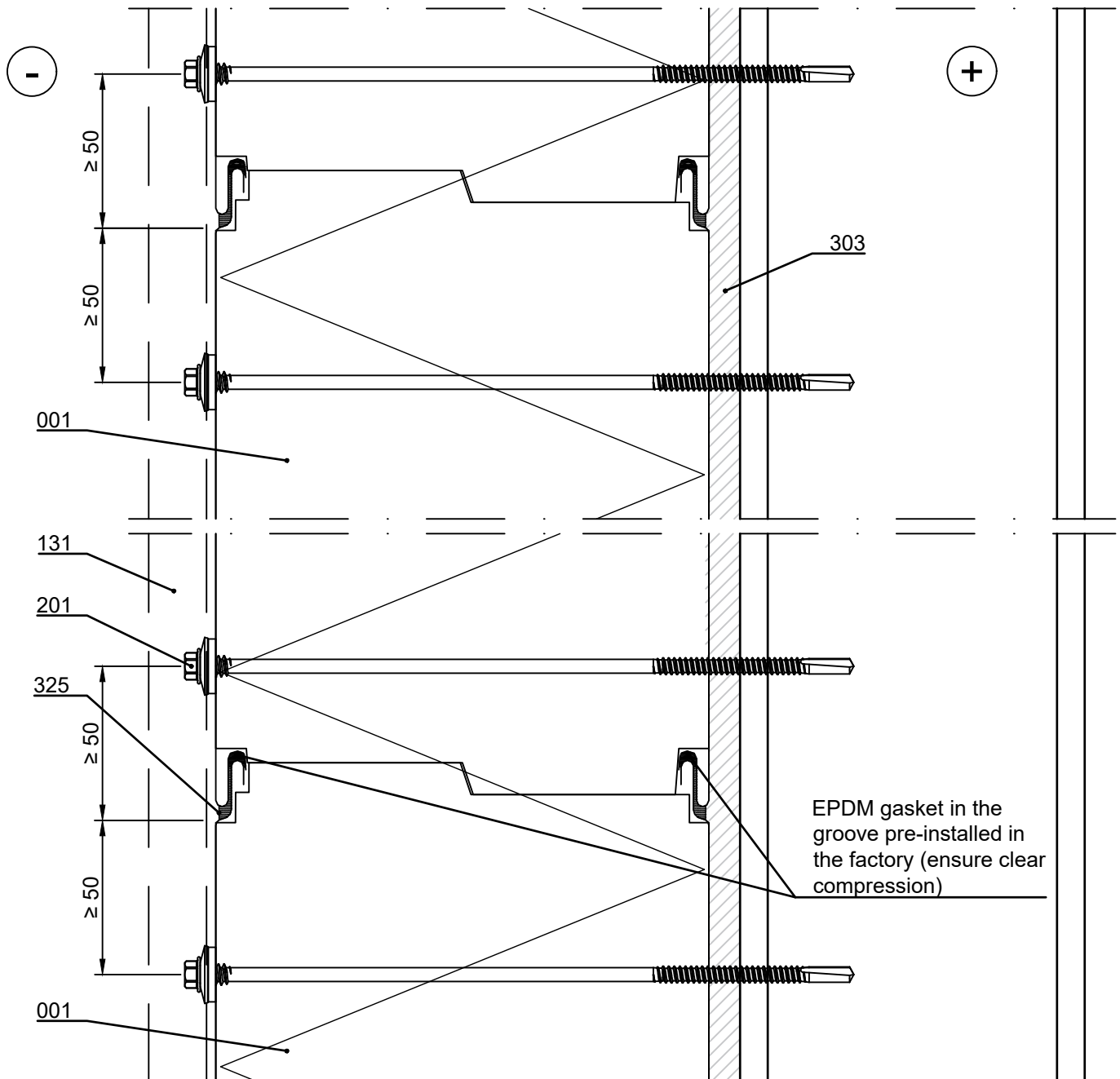


- |   |   |
|---|---|
| <input type="checkbox"/> 001. Sandwich panel nSPB MW ENERGY                                       | <input type="checkbox"/> 252. Concrete screw panel fastener, washer with sealing      |
| <input type="checkbox"/> 111. /EA1P3/ Plinth flashing<br>(installed simultaneously with elements) | <input type="checkbox"/> 303. /EA3SS1210/ Sealing strip                               |
| <input type="checkbox"/> 121. /EA1B05_ / Internal flashing  | <input type="checkbox"/> 312. /EAWS_ / Mineral wool band                              |
| <input type="checkbox"/> 131. /EA1B16/ Vertical joint flashing                                    | <input type="checkbox"/> 351. Z-Profile (stainless steel), continuous acc. to project |
| <input type="checkbox"/> 234. Flat head flashing fastener   |   |

☒ Ruukki's delivery

Sandwich panel nSPB MW ENERGY  
Horizontal installation - Joints between panels  
Vertical section

Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H05-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



- ☐ 001. Sandwich panel nSPB MW ENERGY
- ☐ 131. /EA1B16/ Vertical joint flashing
- ☐ 201. Self-drilling element screw, washer with sealing
- ☒ Ruukki's delivery

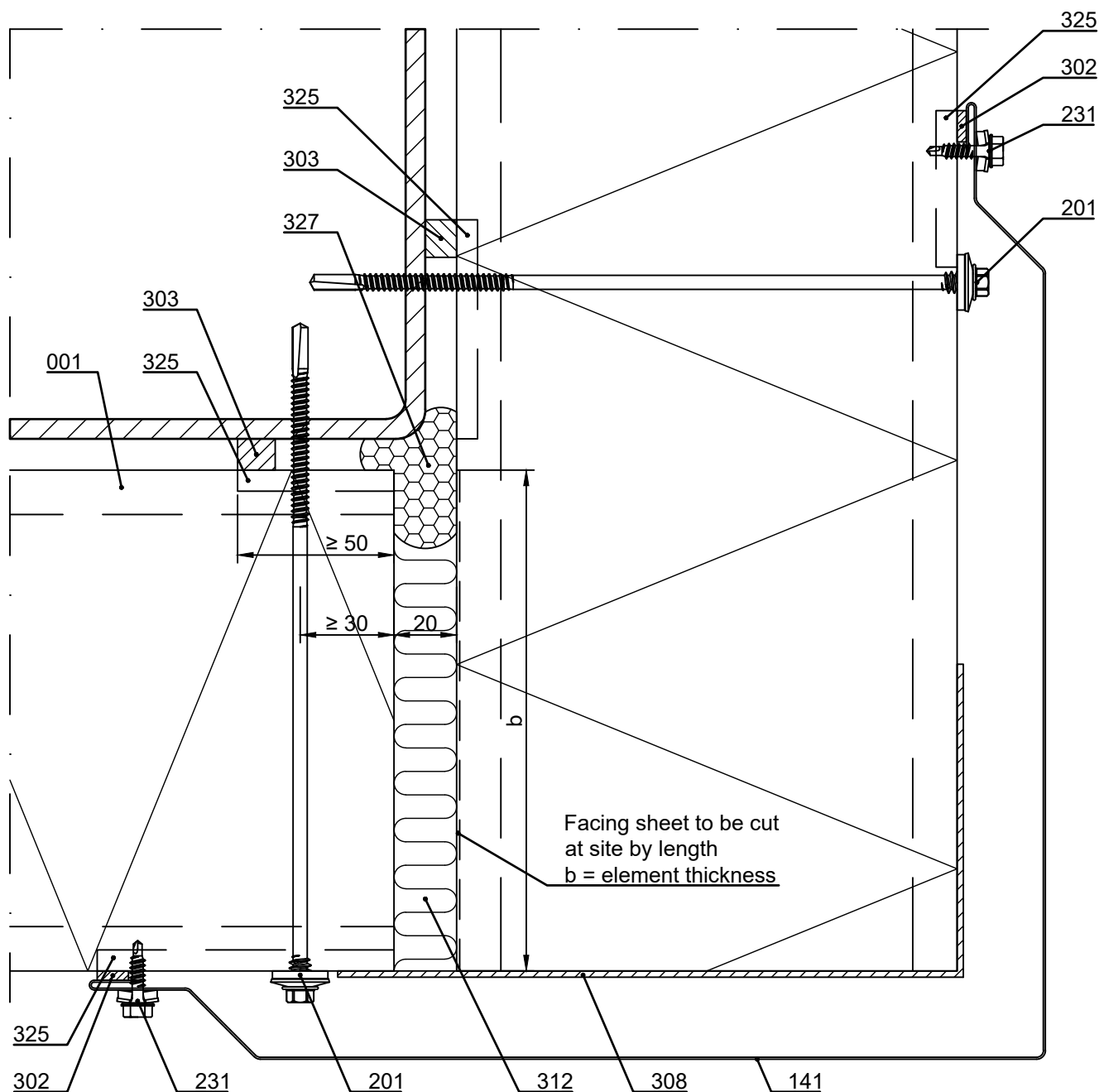
- ☐ 303. /EA3SS1210/ Sealing strip
- ☐ 325. /EA3SM310\_\_\_/ Elastic sealant during inst. to outer female groove in length equivalent to vertical joint flashing width and to inner female groove from panel end to sealing strip (303)

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Sandwich panel nSPB MW ENERGY  
Horizontal installation - Joints between panels  
Horizontal section

Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H07-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



- |  |  |
|--|--|
| <input type="checkbox"/> 001. Sandwich panel nSPB MW ENERGY                    | <input type="checkbox"/> 303. /EA3SS1210/ Sealing strip                  |
| <input type="checkbox"/> 141. /EA1B28___/ External corner flashing,            | <input type="checkbox"/> 308. /EA3JSCN37025/ Joint sealing corner Nordic |
| <input type="checkbox"/> 201. Self-drilling element screw, washer with sealing | <input type="checkbox"/> 312. /EAWS___/ Mineral wool band                |
| <input type="checkbox"/> 231. Flashing fastener, washer with sealing           | <input type="checkbox"/> 325. /EA3SM310___/ Elastic sealant during inst. |
| <input type="checkbox"/> 302. /EA3SS410/ Sealing strip                         | to outer female groove in length equivalent to                           |
| /EA3SS510/ Sealing band EPDM for flashing                                      | vertical joint flashing width and to inner female                        |
| (for demanding climate conditions e.g. coastal areas)                          | groove from panel end to sealing   |
|  | <input type="checkbox"/> 327. /EA6FM330/ Elastic polyurethane foam       |

☒ Ruukki's delivery

Sandwich panel nSPB MW ENERGY  
Horizontal installation - Window joint  
Horizontal section

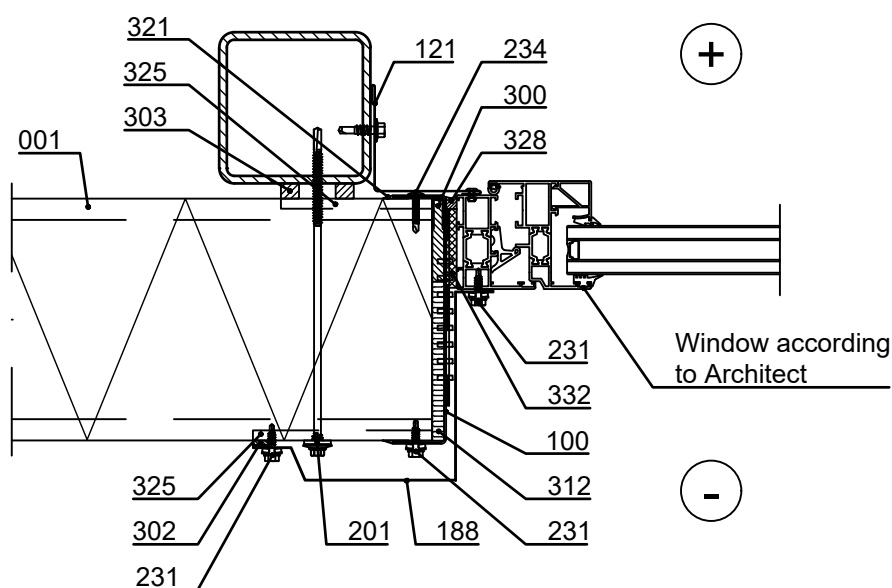
Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H08-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building	File nr.	

Note! Openings must be taken into account in dimensioning of elements.

Note! When thermal purlin (window purlin, for example) is used around the opening, the thermal holes of the purlin must be sealed with tape (aluminium tape, for example) from the inside of the purlin to ensure tightness of the purlin.

Note! Remember to seal the grooves of the elements joining the window during the installation with elastic sealant to outer female groove to length equivalent to vertical joint flashing width.

Supporting structures, if necessary, according to structural designer.



- |  |  |
|--|--|
| <input type="checkbox"/> 001. Sandwich panel nSPB MW ENERGY                          | <input type="checkbox"/> 300. /EA3SWE54318/ Expandable sealing band (plastic tape facing inside)   |
| <input type="checkbox"/> 100. /EA1W___/ Window purlin                                | <input type="checkbox"/> 302. /EA3SS410/ Sealing strip /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas) |
| <input type="checkbox"/> 121. /EA1B05_/ Internal flashing                            | <input type="checkbox"/> 303. /EA3SS1210/ Sealing strip  |
| <input type="checkbox"/> 181. Drip flashing, t = 0.6 mm, according to project        | <input type="checkbox"/> 312. /EAWS___/ Mineral wool band  |
| <input type="checkbox"/> 186. Support- / cover flashing, t = 0.6 mm, acc. to project | <input type="checkbox"/> 321. /EA3SM310___/ Elastic sealant  |
| <input type="checkbox"/> 187. External window flashing, t = 0.6 mm, acc. to project  | <input type="checkbox"/> 328. Elastic sealant  |
| <input type="checkbox"/> 201. Self-drilling element screw, washer with sealing       | <input type="checkbox"/> 332. PU foam  |
| <input type="checkbox"/> 231. Flashing fastener, washer with sealing                 |  |
| <input type="checkbox"/> 234. Flat head flashing fastener                            |  |
| <input type="checkbox"/> 271. Rivet  |  |
- ☒ Ruukki's delivery

## Sandwich panel nSPB MW ENERGY Horizontal installation - Window joint Vertical section

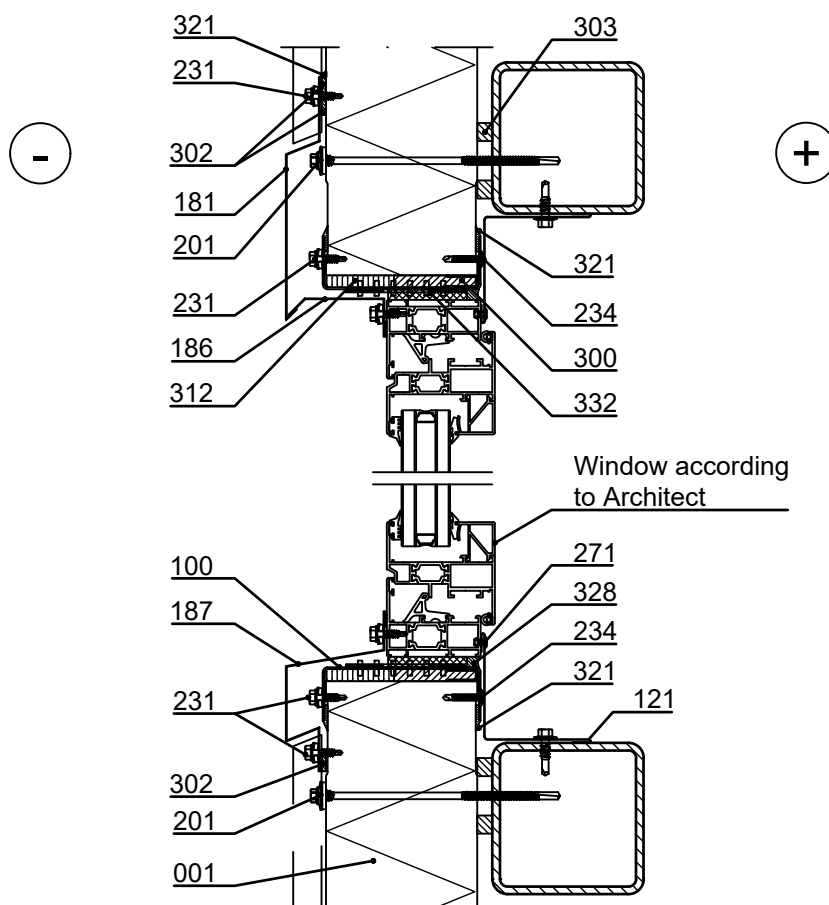
Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H09-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building	File nr.	

Note! Openings must be taken into account in dimensioning of elements.

Note! When thermal purlin (window purlin, for example) is used around the opening, the thermal holes of the purlin must be sealed with tape (aluminium tape, for example) from the inside of the purlin to ensure tightness of the purlin.

Note! Remember to seal the grooves of the elements joining the window during the installation with elastic sealant to outer female groove to length equivalent to vertical joint flashing width.

Supporting structures, if necessary, according to structural designer.



- |  |  |
|--|--|
| <input type="checkbox"/> 001. Sandwich panel nSPB MW ENERGY                          | <input type="checkbox"/> 300. /EA3SWE54318/ Expandable sealing band (plastic tape facing inside)   |
| <input type="checkbox"/> 100. /EA1W___/ Window purlin                                | <input type="checkbox"/> 302. /EA3SS410/ Sealing strip /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas) |
| <input type="checkbox"/> 121. /EA1B05_/ Internal flashing                            | <input type="checkbox"/> 303. /EA3SS1210/ Sealing strip  |
| <input type="checkbox"/> 181. Drip flashing, t = 0.6 mm, according to project        | <input type="checkbox"/> 312. /EAWS___/ Mineral wool band  |
| <input type="checkbox"/> 186. Support- / cover flashing, t = 0.6 mm, acc. to project | <input type="checkbox"/> 321. /EA3SM310___/ Elastic sealant  |
| <input type="checkbox"/> 187. External window flashing, t = 0.6 mm, acc. to project  | <input type="checkbox"/> 328. Elastic sealant  |
| <input type="checkbox"/> 201. Self-drilling element screw, washer with sealing       | <input type="checkbox"/> 332. PU foam  |
| <input type="checkbox"/> 231. Flashing fastener, washer with sealing                 |  |
| <input type="checkbox"/> 234. Flat head flashing fastener                            |  |
| <input type="checkbox"/> 271. Rivet  |  |
| <input checked="" type="checkbox"/> Ruukki's delivery                                |  |

## Sandwich panel nSPB MW ENERGY Horizontal installation - Parapet, end eaves Vertical section

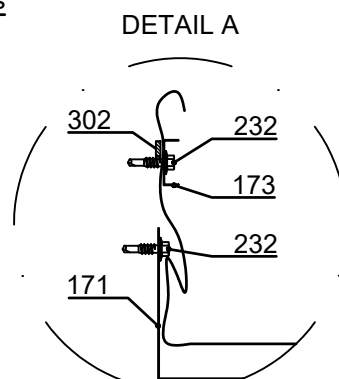
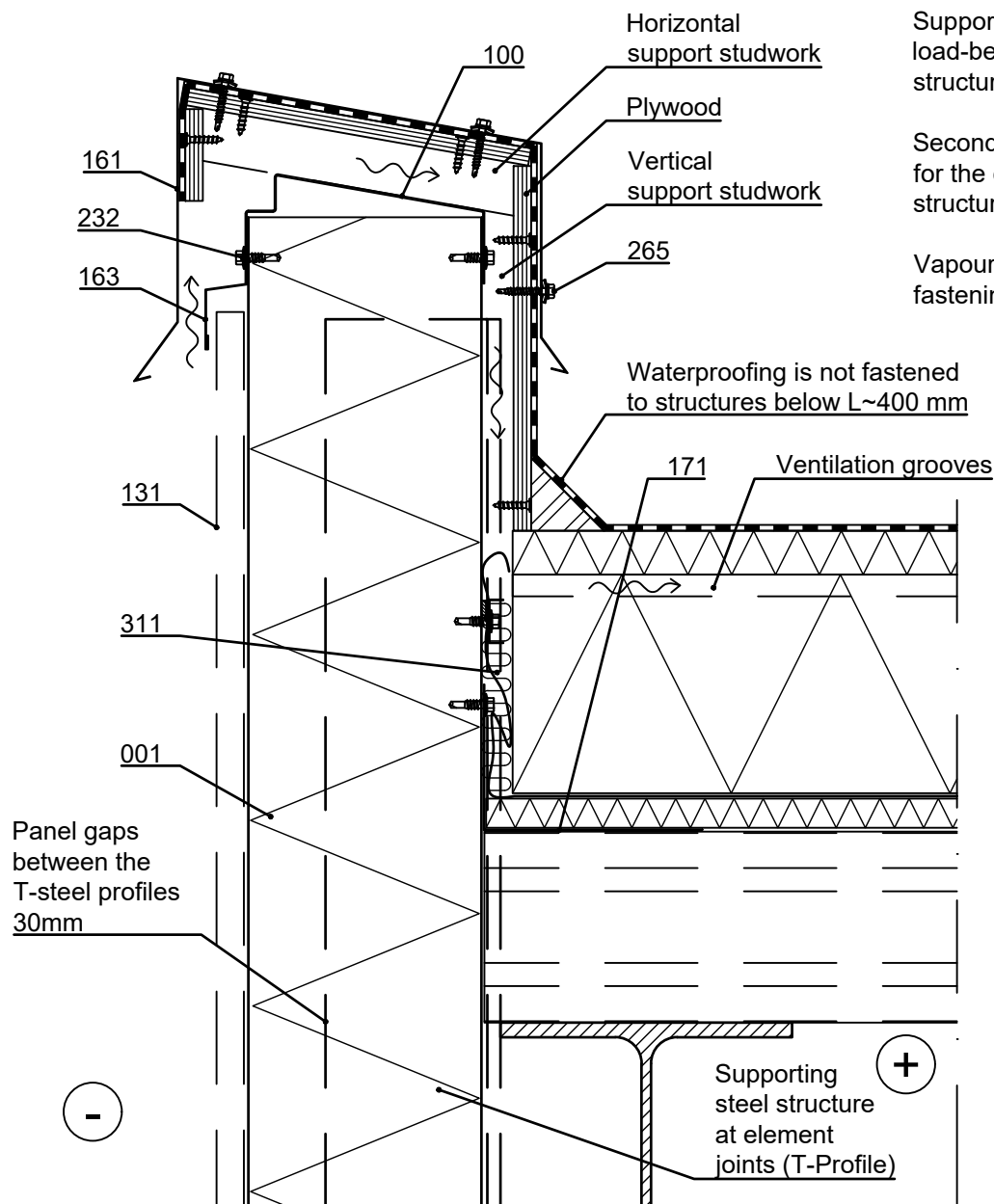
Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H10-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

Insulation thickness is dimensioned according to project.

Supports and fastening of load-bearing sheet according to structural designer.

Secondary steel supports (T-steel) for the element according to structural designer.

Vapour barrier and insulation support fastening, see Detail A



- ☐ 001. Sandwich panel nSPB MW ENERGY
- ☐ 100. /EA1EP\_\_\_/ Purlin
- ☐ 131. /EA1B16/ Vertical joint flashing
- ☐ 161. Eave flashing, t = 0.6 mm, according to project
- ☐ 163. Storm flashing, t = 0.6 mm, according to project
- ☐ 171. Insulation support flashing, t = 0.6 mm
- ☒ Ruukki's delivery
- ☐ 173. U-flashing to vapour barrier fastening, t = 0.6 mm, according to project
- ☐ 232. Flashing fastener, without washer
- ☐ 265. Fastener screw to wood, washer with sealing
- ☐ 302. /EA3SS410/ Sealing, between panel and vapour barrier
- ☐ 311. /EAWS5657850/ Mineral wool

## Sandwich panel nSPB MW ENERGY Horizontal installation - Roof drainage, side eaves Vertical section

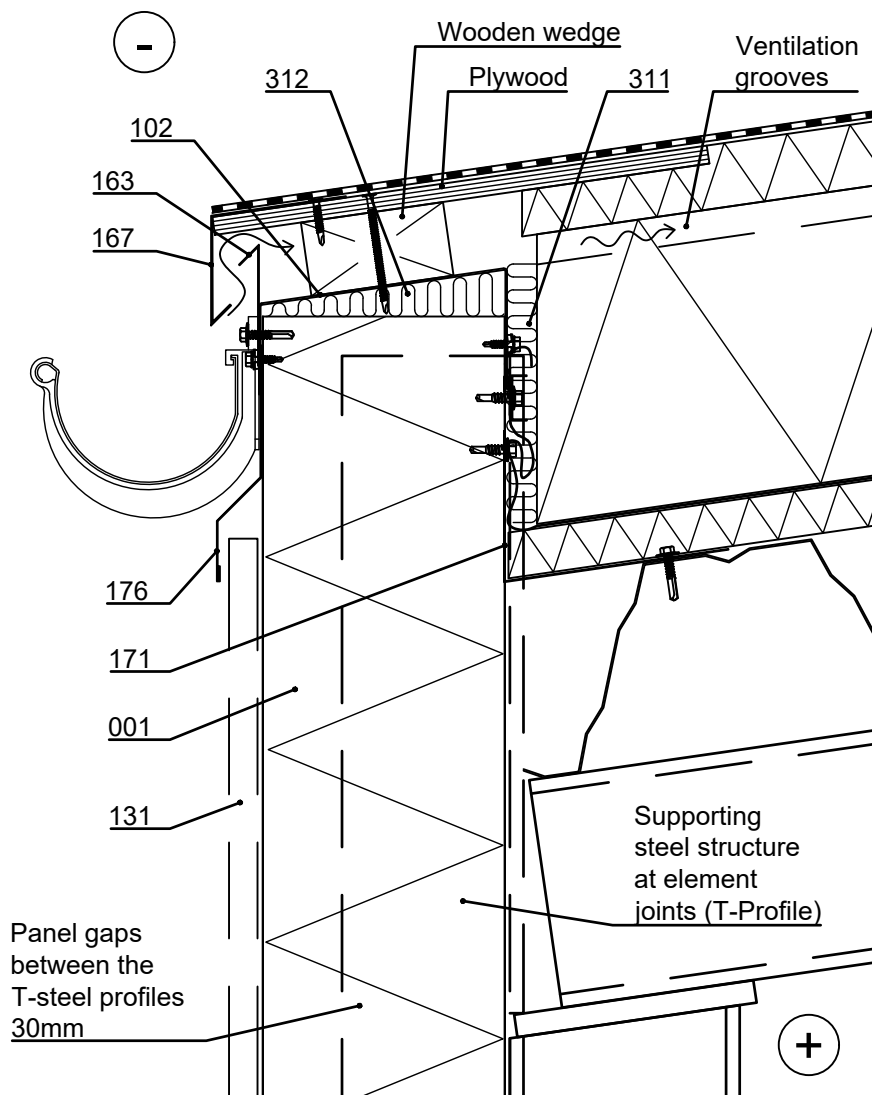
Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H11-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

Insulation thickness is dimensioned according to project.

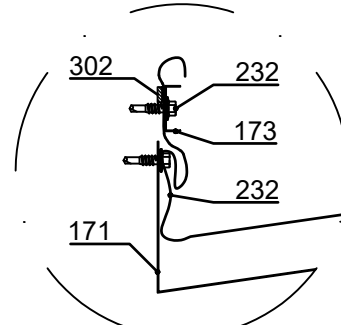
Supports and fastening of load-bearing sheet according to structural designer.

Secondary steel supports (T-steel) for the element according to structural designer.

Vapour barrier and insulation support fastening, see Detail A



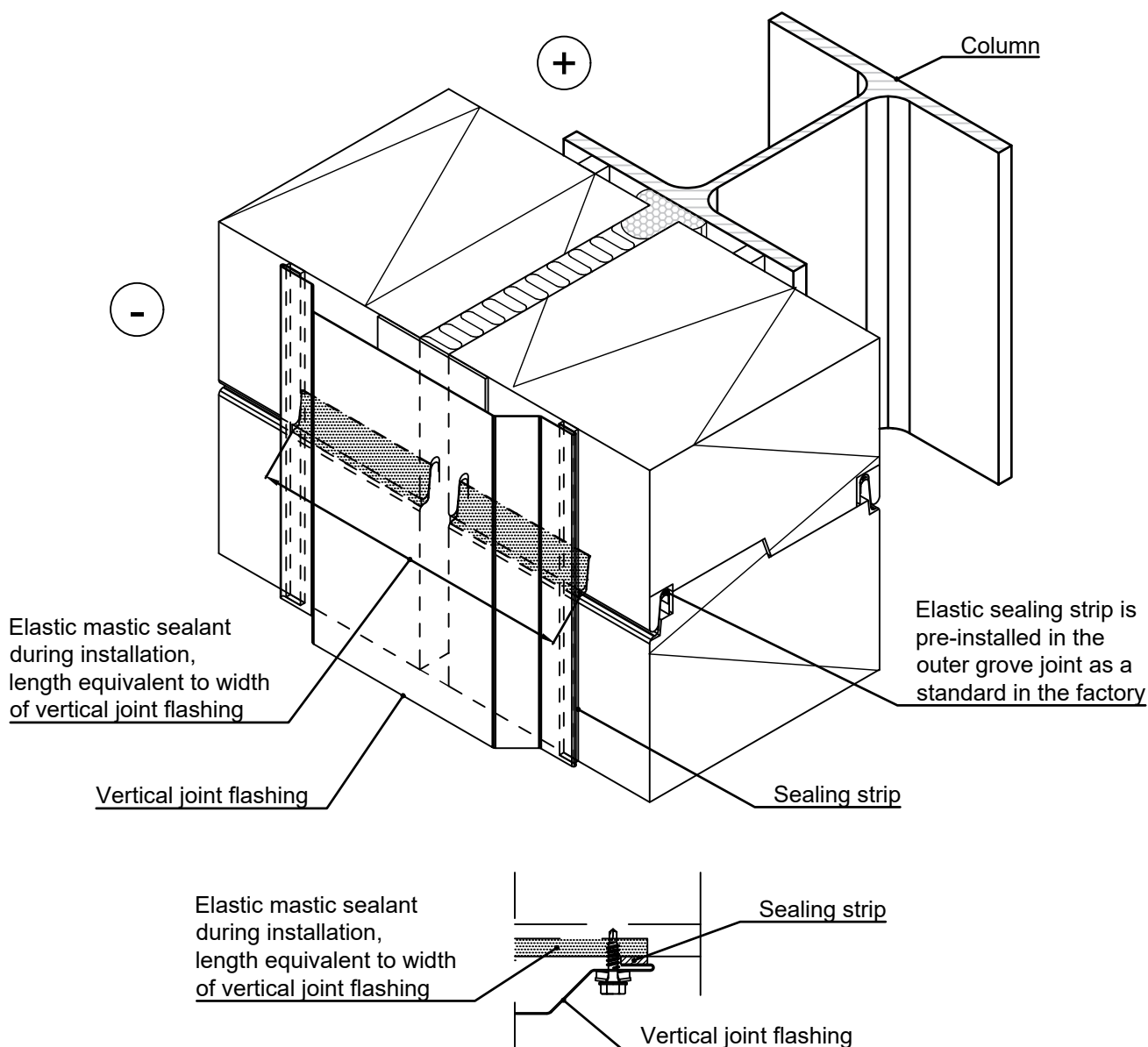
DETAIL A



- |  |  |
|--|--|
| <input type="checkbox"/> 001. Sandwich panel nSPB MW ENERGY  | <input type="checkbox"/> 176. Storm flashing, t = 0.6 mm, according to project     |
| <input type="checkbox"/> 102. /EA1B20___/ Purlin   | <input type="checkbox"/> 232. Flashing fastener, without washer                    |
| <input type="checkbox"/> 131. /EA1B16/ Vertical joint flashing   | <input type="checkbox"/> 302. /EA3SS410/ Sealing, between panel and vapour barrier |
| <input type="checkbox"/> 163. Storm flashing, t = 0.6 mm, according to project                         | <input type="checkbox"/> 311. /EAWS5657850/ Mineral wool                           |
| <input type="checkbox"/> 167. Eave flashing, t = 1.0 mm, according to project                          | <input type="checkbox"/> 312. /EAWS___/ Mineral wool band                          |
| <input type="checkbox"/> 171. Insulation support flashing, t = 0.6 mm                                  |  |
| <input type="checkbox"/> 173. U-flashing to vapour barrier fastening, t = 0.6 mm, according to project |  |

☒ Ruukki's delivery

Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H12-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



#### Horizontal installation:

Elastic mastic sealant during installation to outer female groove in length equivalent to width of vertical joint flashing and to inner female groove from panel end to sealing. It is important that the groove is completely filled with mastic sealant, i.e. it must be applied before interlocking the joint.

#### Vertical installation:

Elastic mastic sealant during installation to outer female groove in full length of panel and inner female groove 60 mm in length. It is important that the groove is completely filled with mastic sealant, i.e. it must be applied before interlocking the joint.

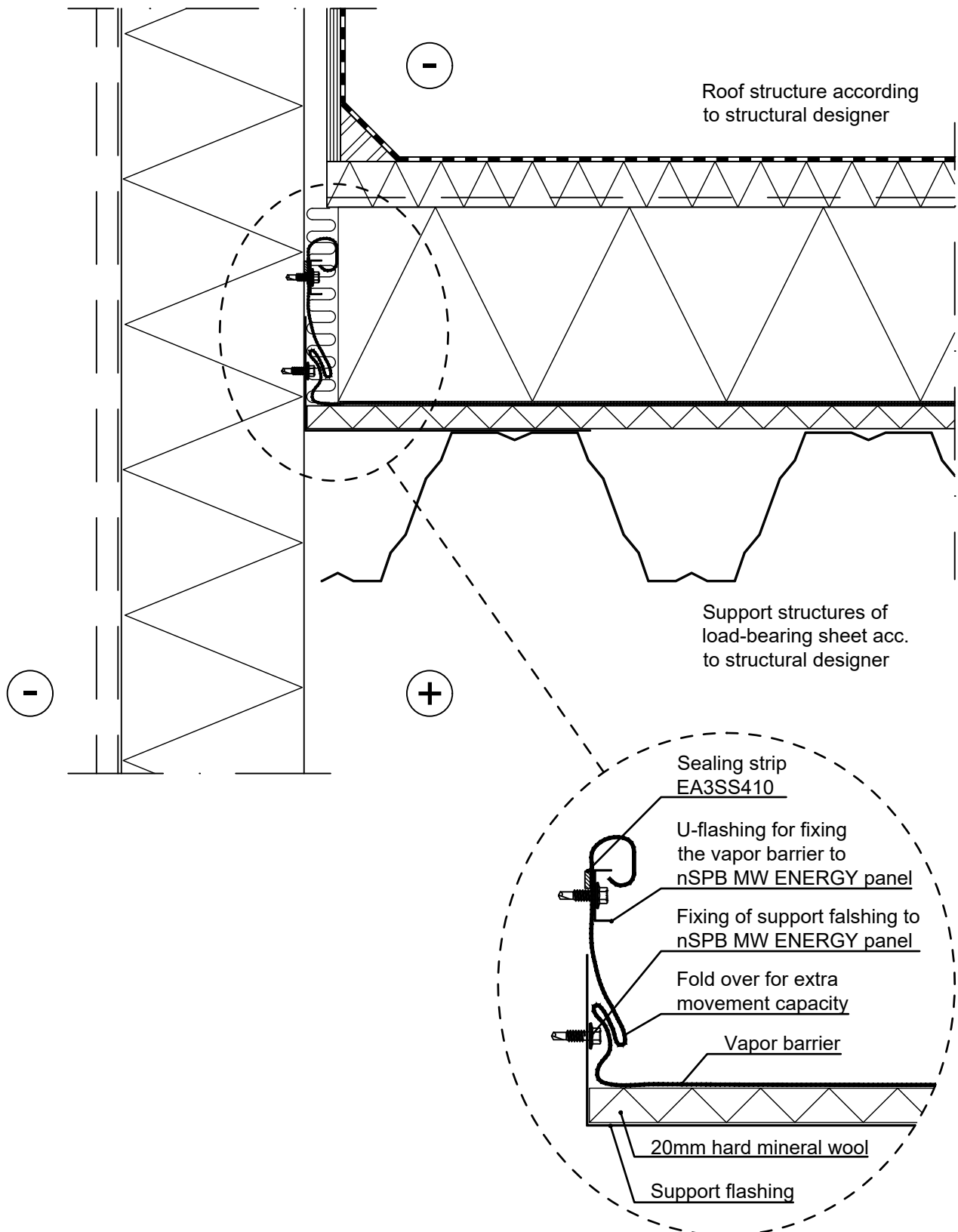




Contents of drawing

Sandwich panel nSPB MW ENERGY  
Horizontal installation - Cantilever eaves  
Vapor barrier (plastic) / Load-bearing sheet

Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H14-EN
Drawn by Ruukki	Rev.		
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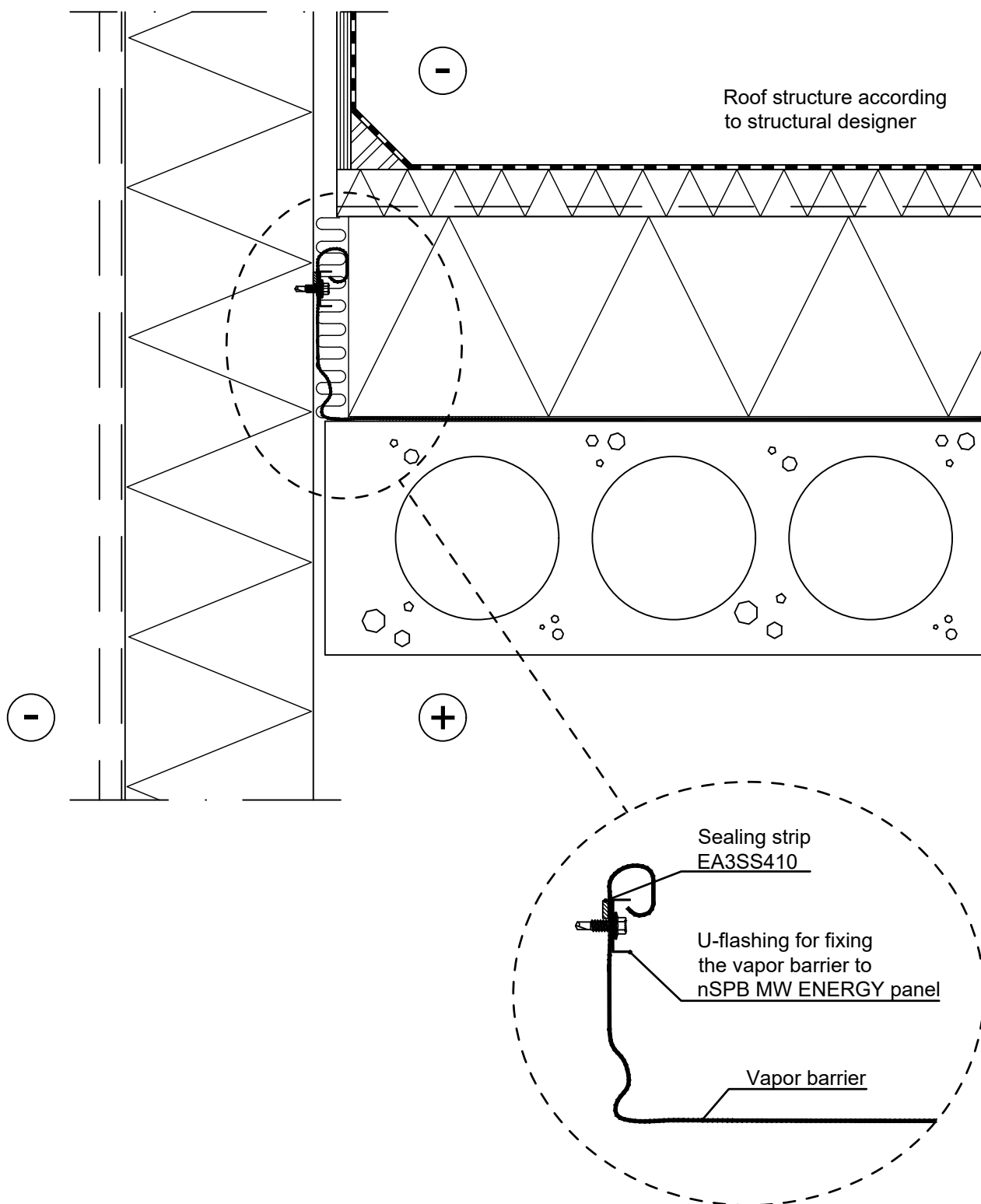




Contents of drawing

Sandwich panel nSPB MW ENERGY  
Horizontal installation - Cantilever eaves  
Vapor barrier (plastic) / Hollow core slab

Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H15-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

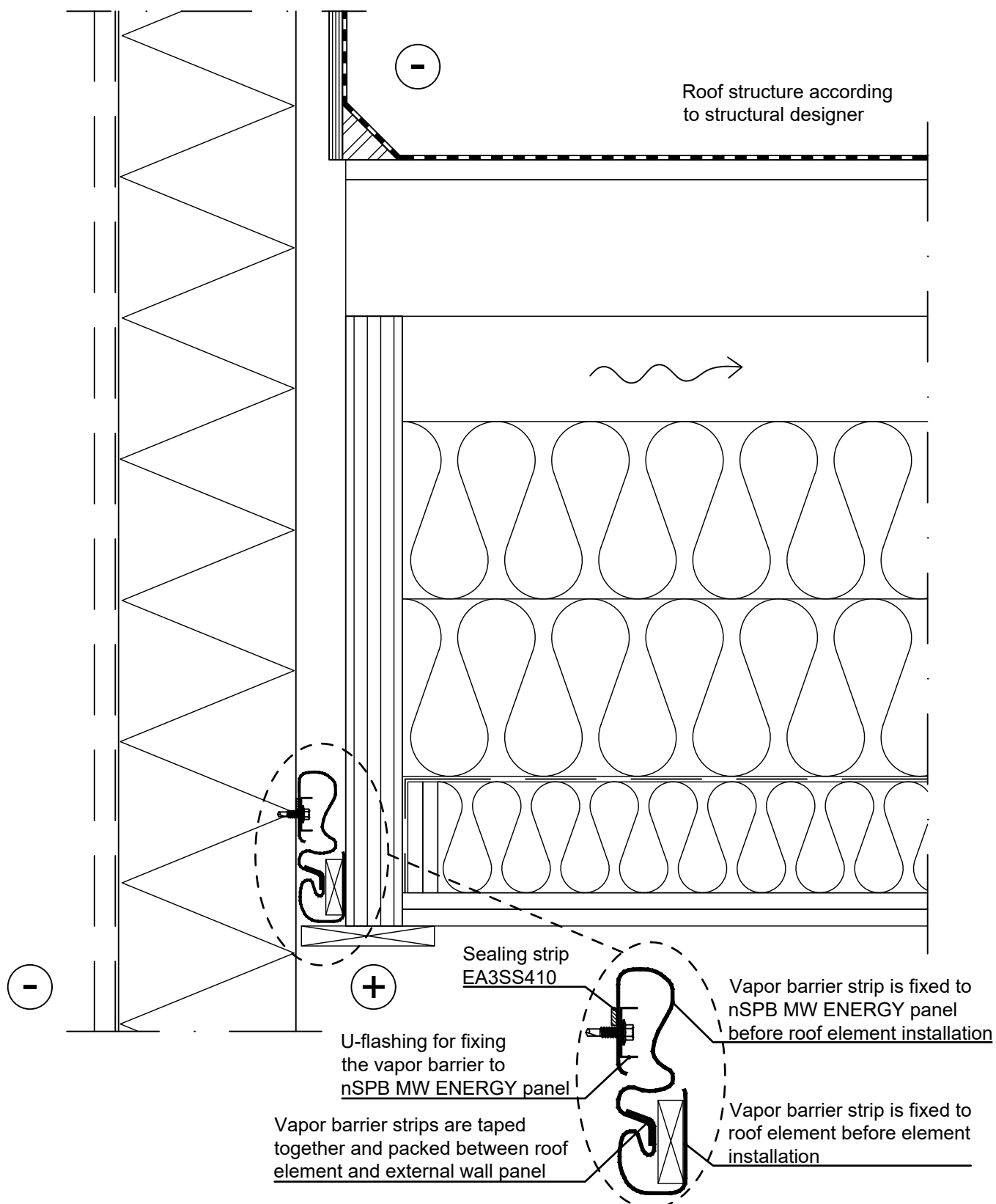




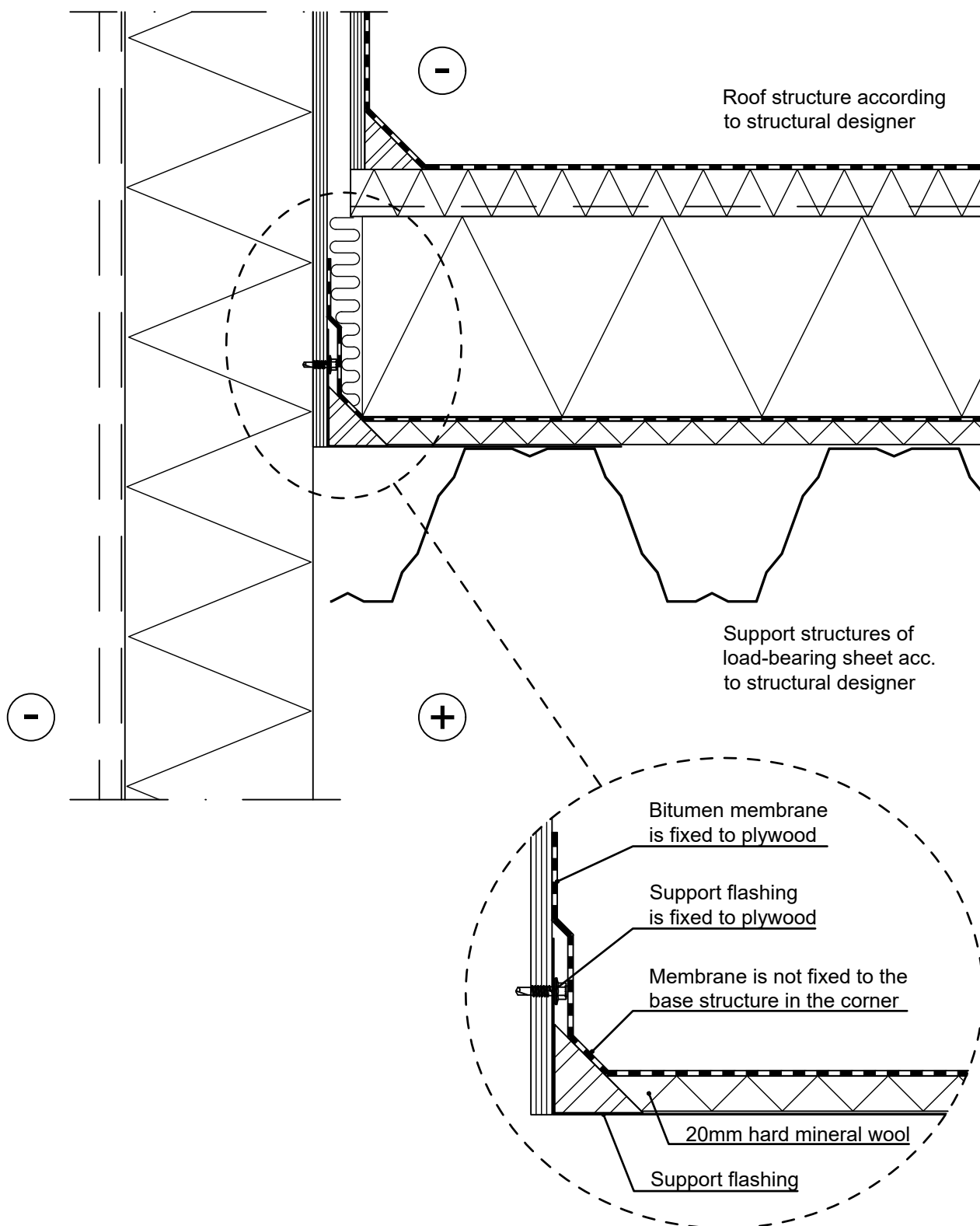
Contents of drawing

Sandwich panel nSPB MW ENERGY  
Horizontal installation - Cantilever eaves  
Vapor barrier (plastic) / Wood element

Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H16-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building	File nr.	



Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H17-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

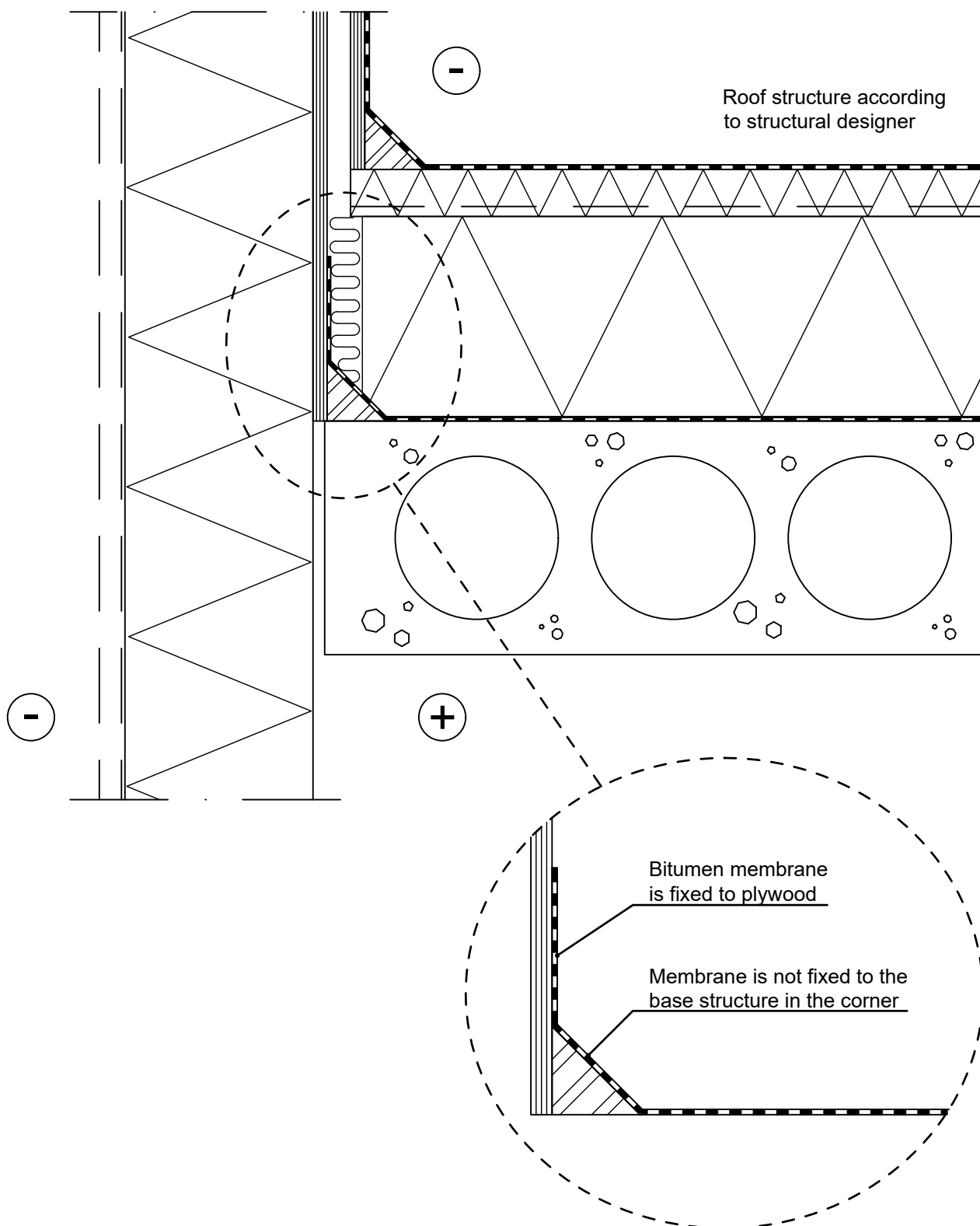




Contents of drawing

Sandwich panel nSPB MW ENERGY  
Horizontal installation - Cantilever eaves  
Vapor barrier (bitumen) / Hollow core slab

Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H18-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building	File nr.	

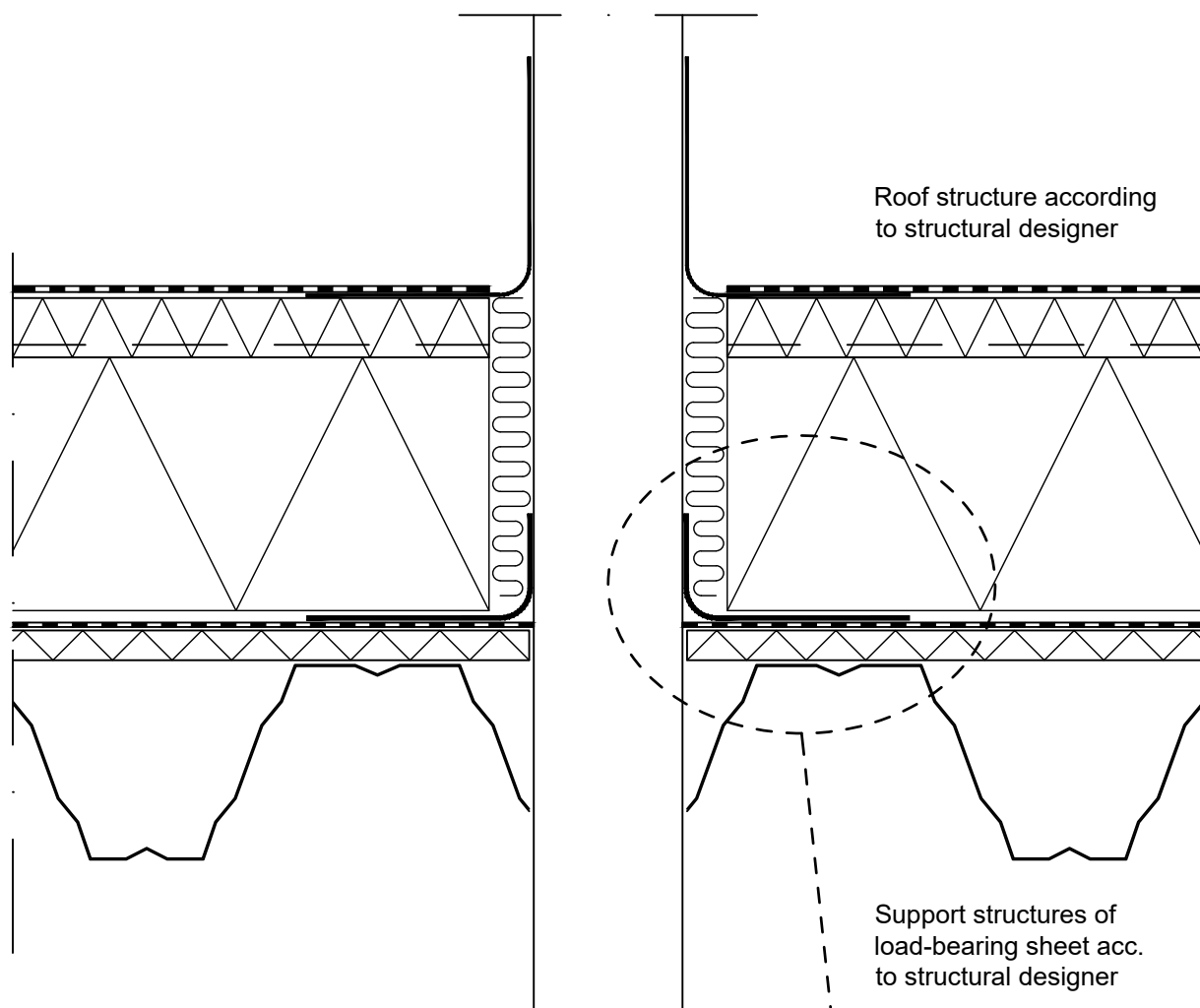




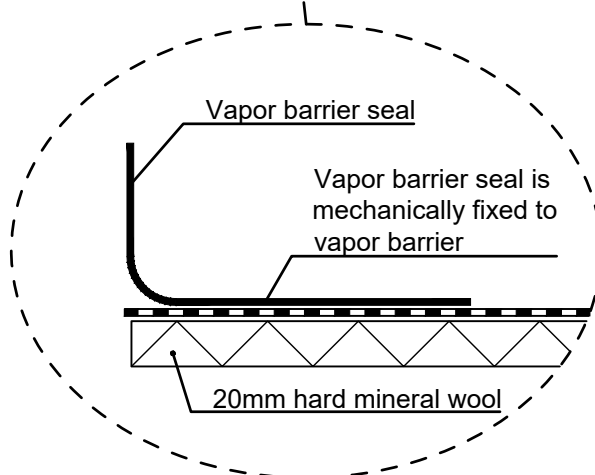
# Contents of drawing

Sandwich panel nSPB MW ENERGY  
Horizontal installation - Round pass-through  
Vapor barrier (plastic) / Load-bearing sheet

Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H19-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



The hole in the vapor barrier is cut smaller than pass-through

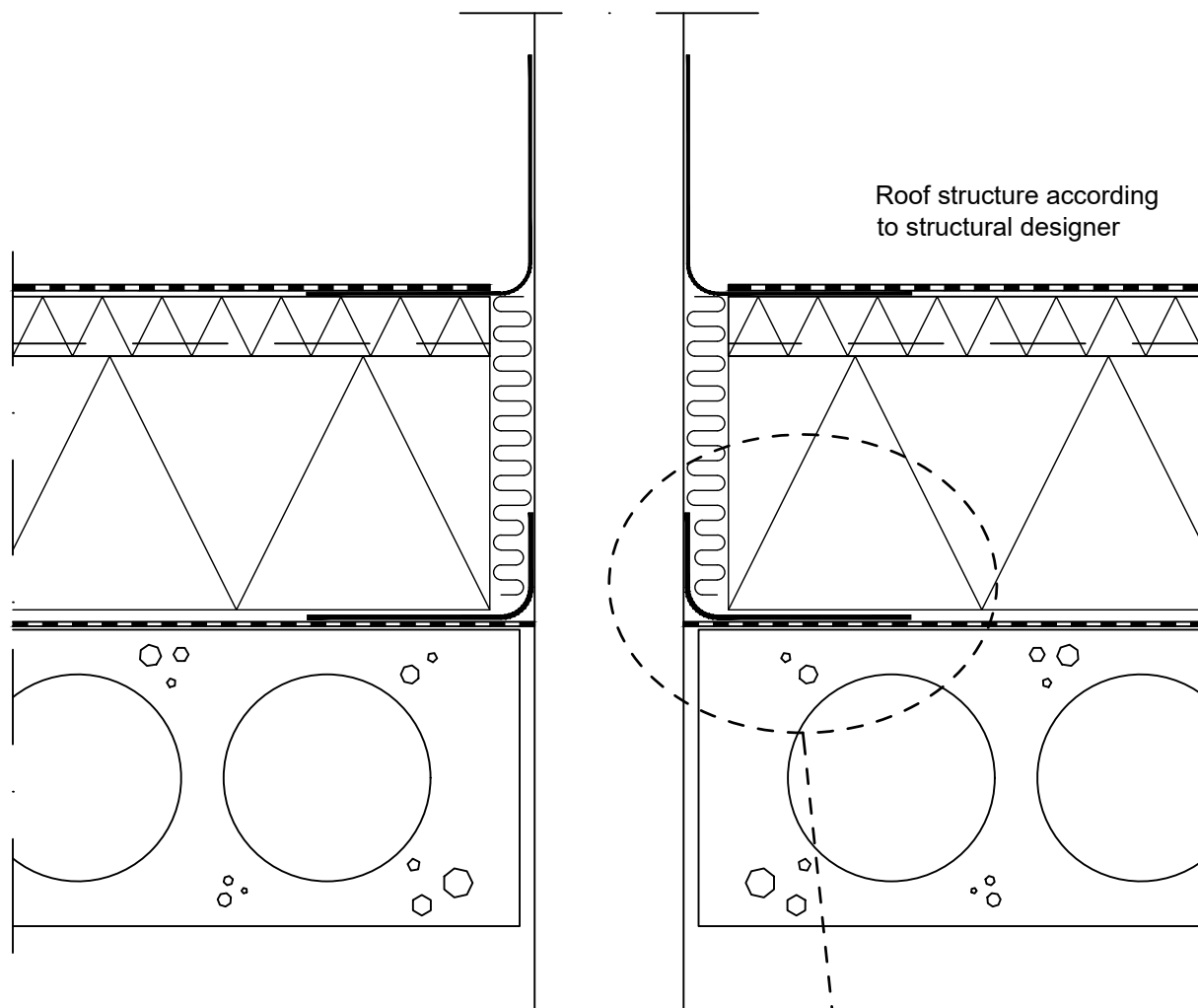




Contents of drawing

Sandwich panel nSPB MW ENERGY  
Horizontal installation - Round pass-through  
Vapor barrier (plastic) / Hollow core slab

Date 28.10.2022	Rev. date	Work nr.	Drawing nr. SPB-MW-ENERGY-H20-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building	File nr.	

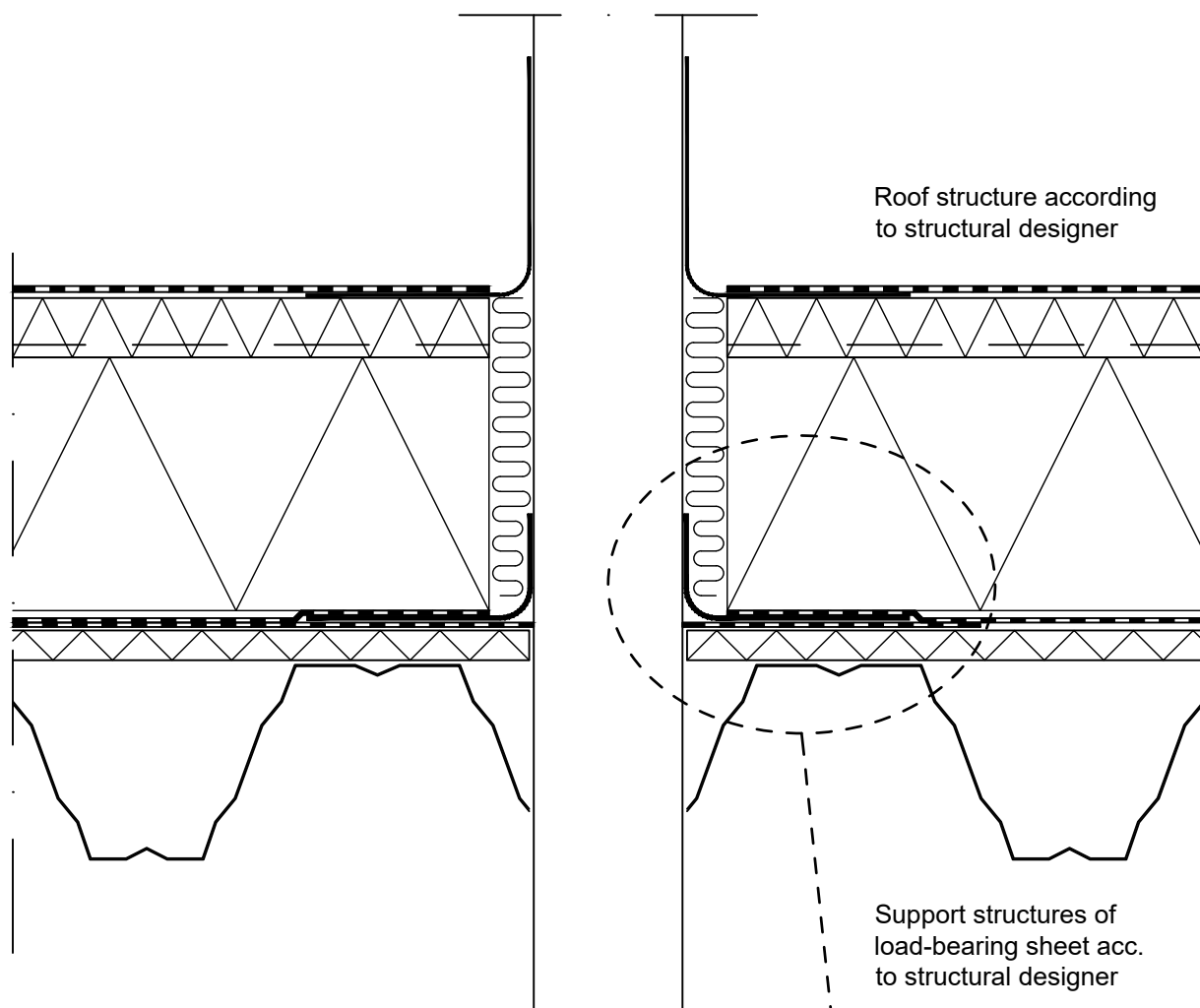


The hole in the vapor barrier is cut smaller than pass-through

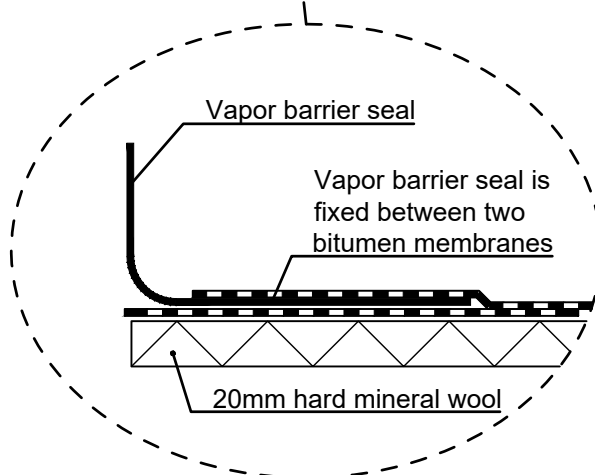
Vapor barrier seal

Vapor barrier seal is mechanically fixed to vapor barrier

Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H21-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



The hole in the vapor barrier is cut smaller than pass-through

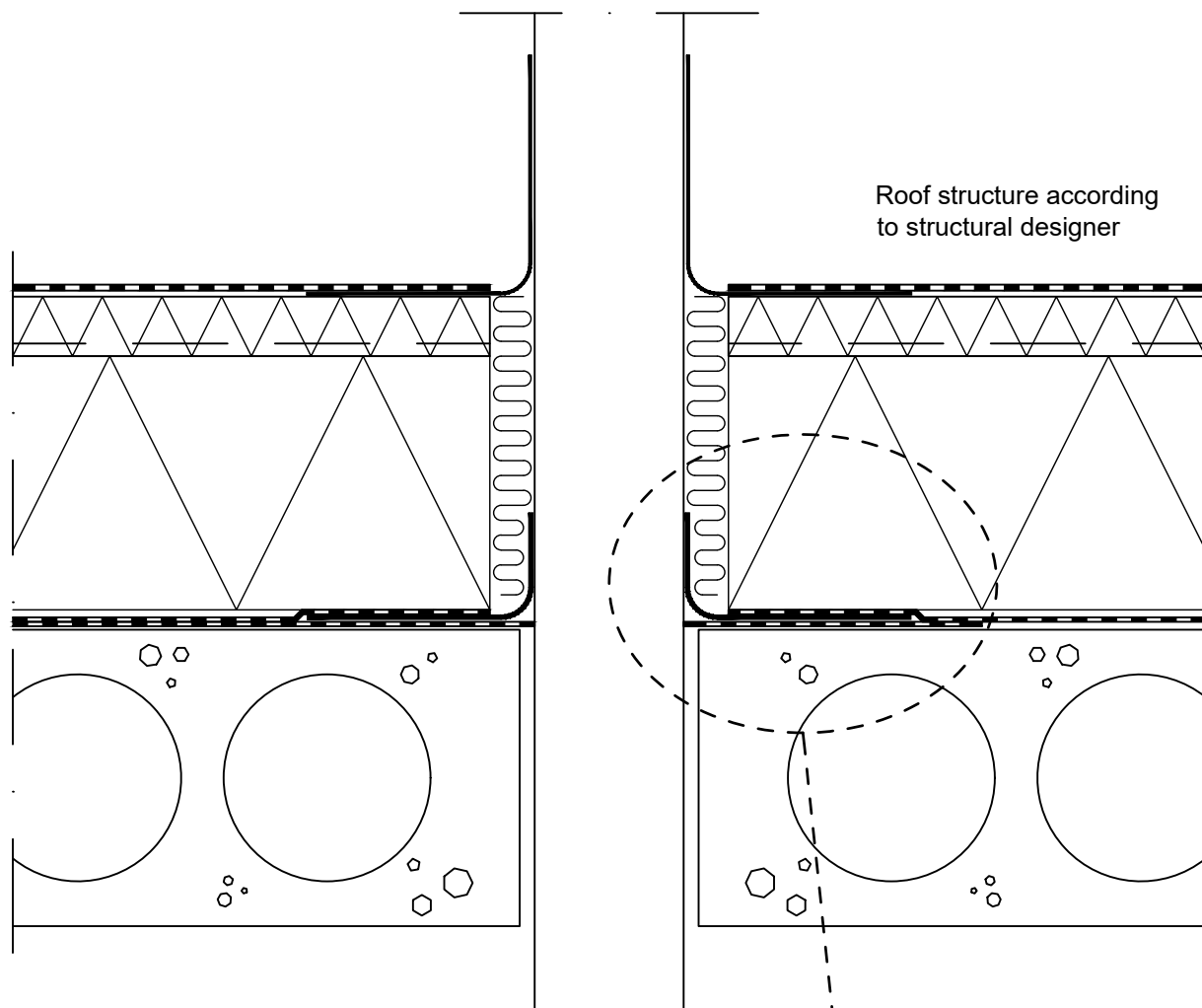




Contents of drawing

Sandwich panel nSPB MW ENERGY  
Horizontal installation - Round pass-through  
Vapor barrier (bitumen) / Hollow core slab

Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H22-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building	File nr.	



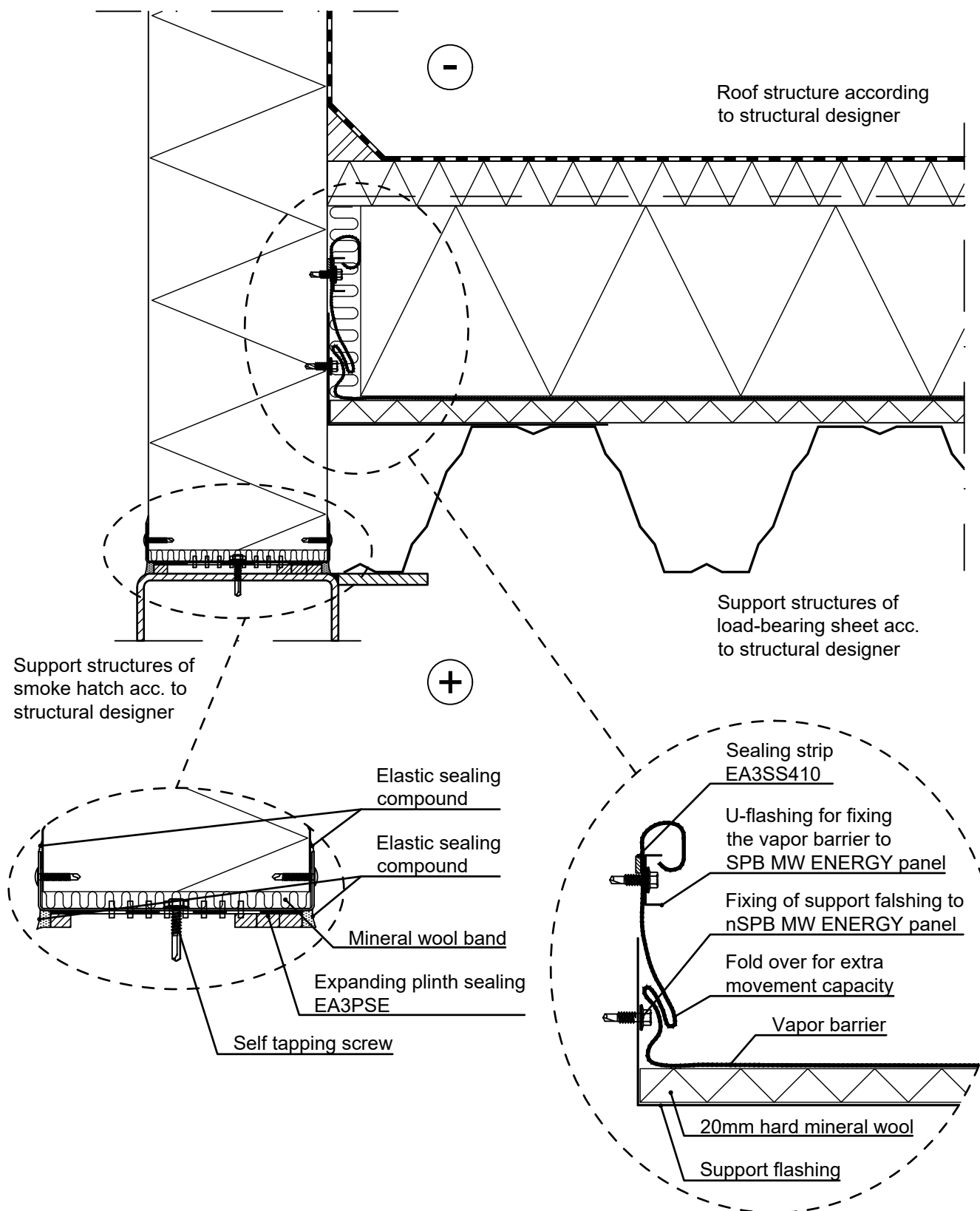
The hole in the vapor barrier is cut smaller than pass-through

Vapor barrier seal

Vapor barrier seal is mechanically fixed to vapor barrier



Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H23-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

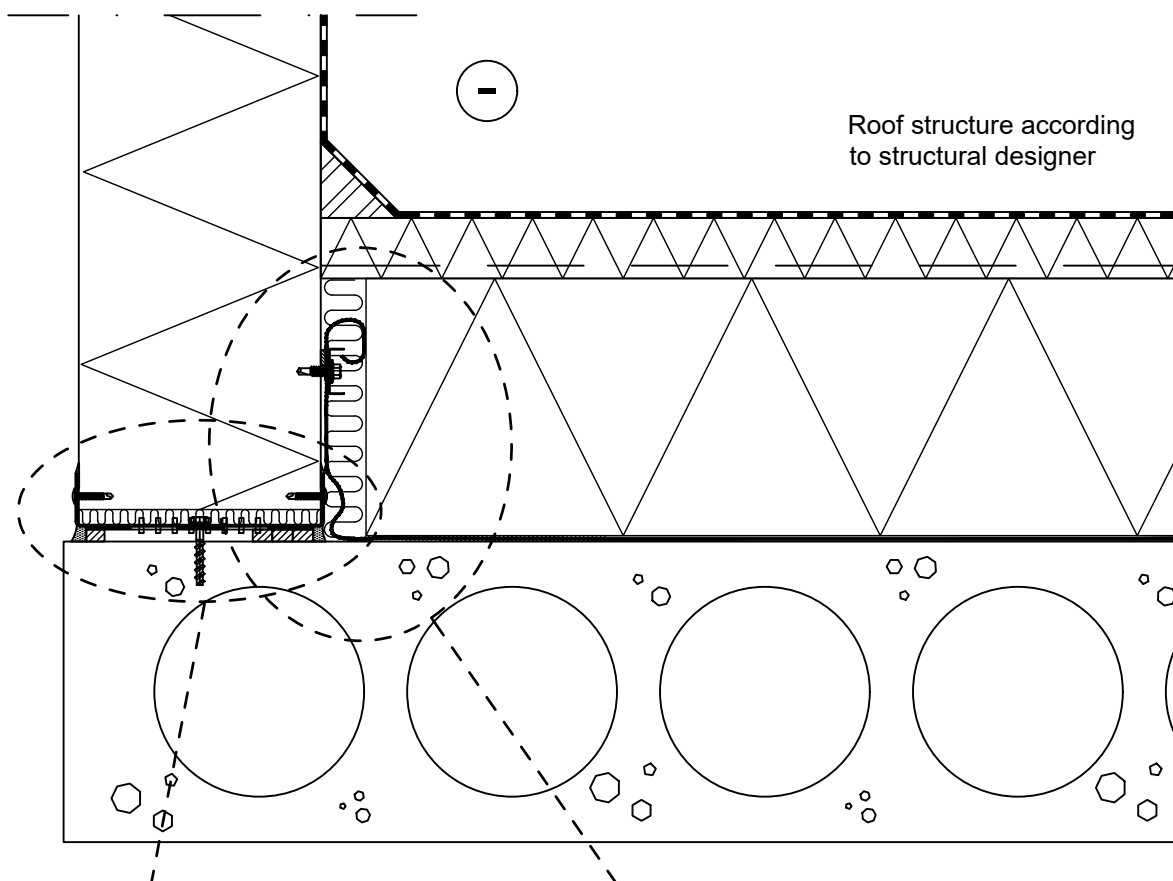




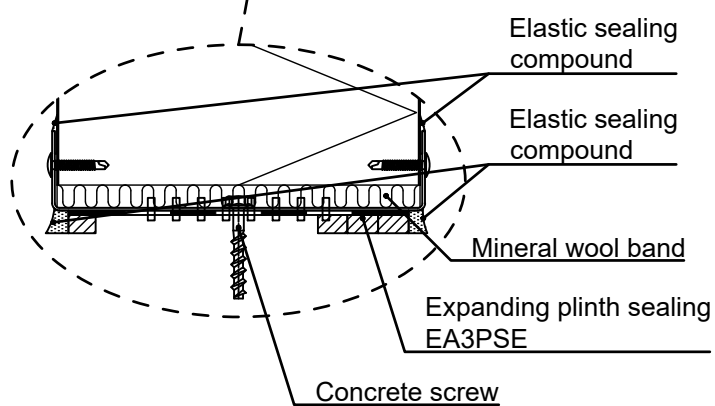
Contents of drawing

Sandwich panel nSPB MW ENERGY  
Horizontal installation - Smoke hatch  
Vapor barrier (plastic) / Hollow core slab

Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H24-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



Roof structure according  
to structural designer



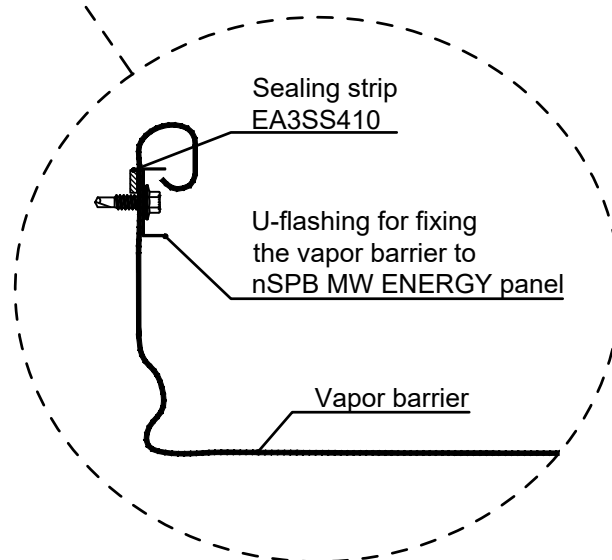
Elastic sealing  
compound

Elastic sealing  
compound

Mineral wool band

Expanding plinth sealing  
EA3PSE

Concrete screw

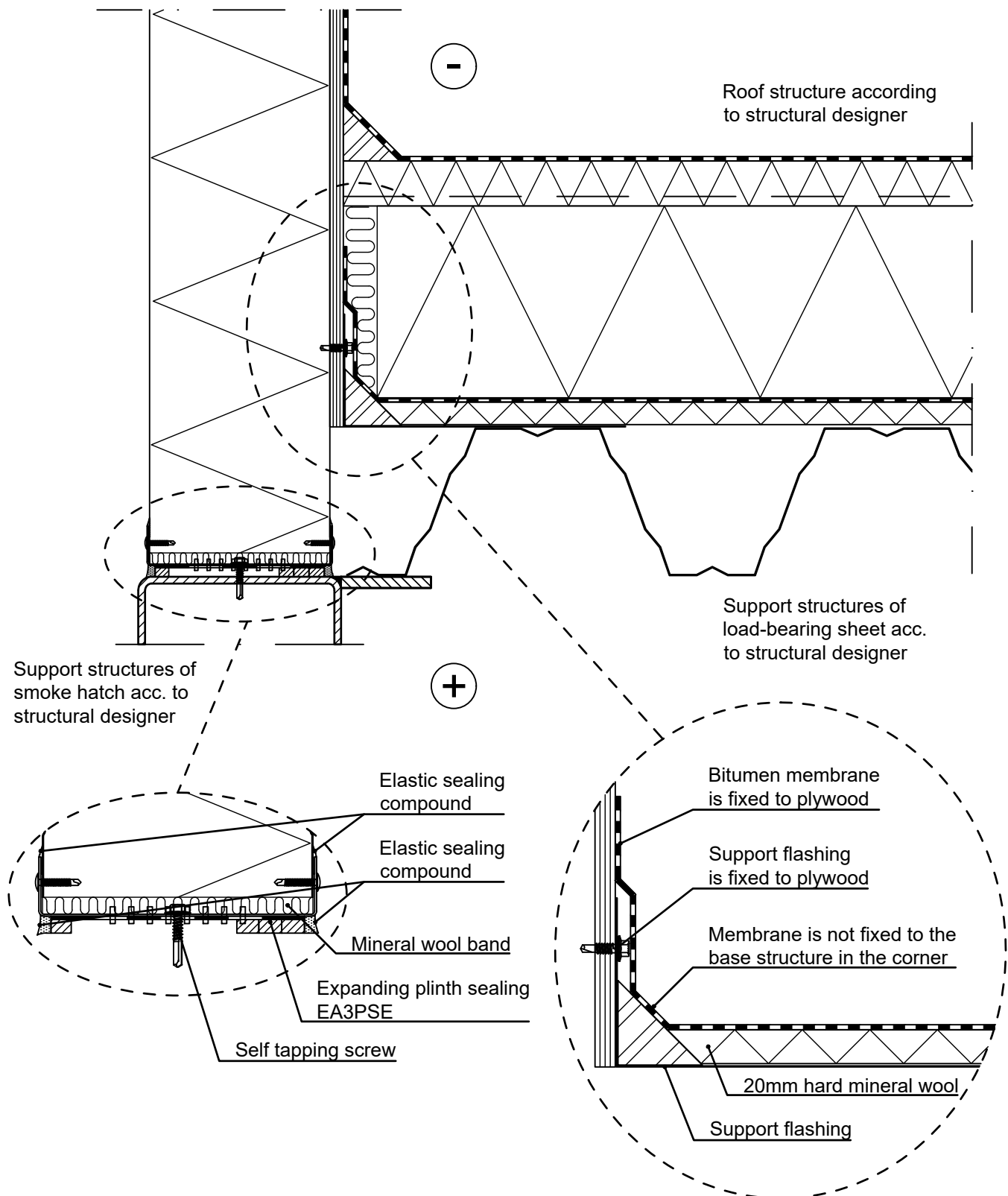


Sealing strip  
EA3SS410

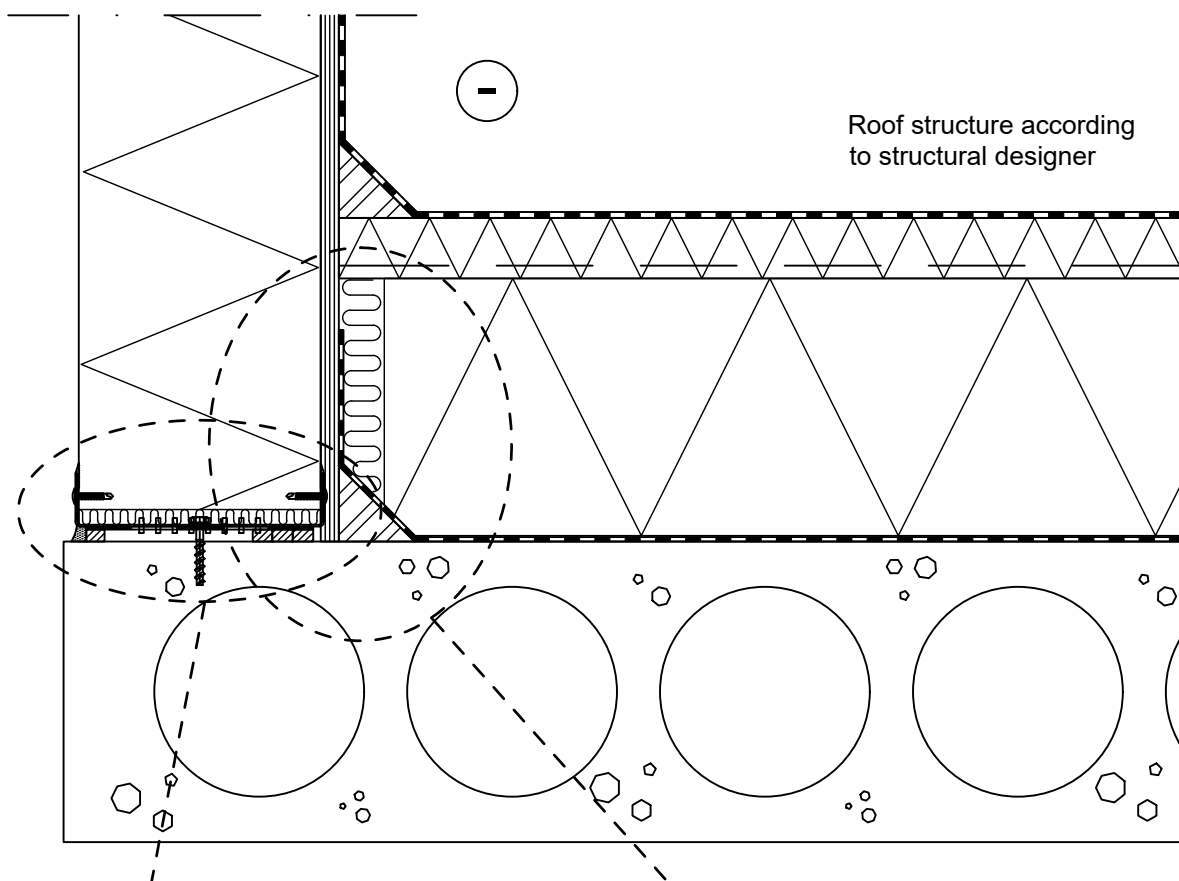
U-flashing for fixing  
the vapor barrier to  
nSPB MW ENERGY panel

Vapor barrier

Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H25-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



Date 28.10.2022	Rev. date	Work nr.	Drawing nr. nSPB-MW-ENERGY-H26-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



Roof structure according  
to structural designer

