

Drawing nr.	Contents of drawing
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Vertical installation, Plinth detail
- nSPD01-MW-02-EN

Vertical installation, Plinth detail
- nSPD02-MW-ENERGY-01-EN

Vertical installation, Joints between panels
- nSPD02-MW-ENERGY-02-EN

Vertical installation, Joints between panels
- nSPD02-MW-ENERGY-03-EN

Vertical installation, external corner
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Vertical installation, external corner
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Vertical installation, Window joint
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Vertical installation, Window joint
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Vertical installation, Parapet, end eaves
- nSPD04-MW-ENERGY-02-EN

Vertical installation, Roof drainage, side eaves

City sector	Block	Site/Reg. nr.	File nr.			
Building type			Drawing type Nr.			
Building, Name and address			Contents of drawing			Scale
<div> <div> <div>RUUKKI</div> <div> Ruukki Construction Oy Vimpelintie 661 FI - 62900 ALAJÄRVI FINLAND </div> <div> tel +358 2059 127 fax +358 2059 27700 www.ruukki.com </div> </div> </div>			Sandwich panel nSPD MW ENERGY PRINCIPLE DETAIL DRAWINGS External walls (10 pcs)			
Date	Designer	Work nr.	Work nr.	Drw. nr.	Rev.	
28.08.2024						
Drawn by	Checked					
Ruukki						



Contents of drawing

Sandwich panel nSPD MW ENERGY
Accessory numbers in details

Date 28.08.2024	Rev. date .	Work nr.	Drawing nr. nSPD-MW-ENERGY-00-EN
Drawn by Ruukki	Rev.		
Scale	Building		File nr.

SANDWICH PANELS

001. Sandwich panel nSPD MW ENERGY 100-230

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

ADDITIONAL131-159. Vertical seam-, external- and internal corner
flashings

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

251. Spike panel fastener, washer with sealing

255. Spike-fastener, concrete

271. Rivet

288. Fastener L15

SEALANTS AND INSULATIONS

300. Expandable sealing band

301. Plinth sealing expanding

302. Sealing band for flashings

303. Sealing band for frame

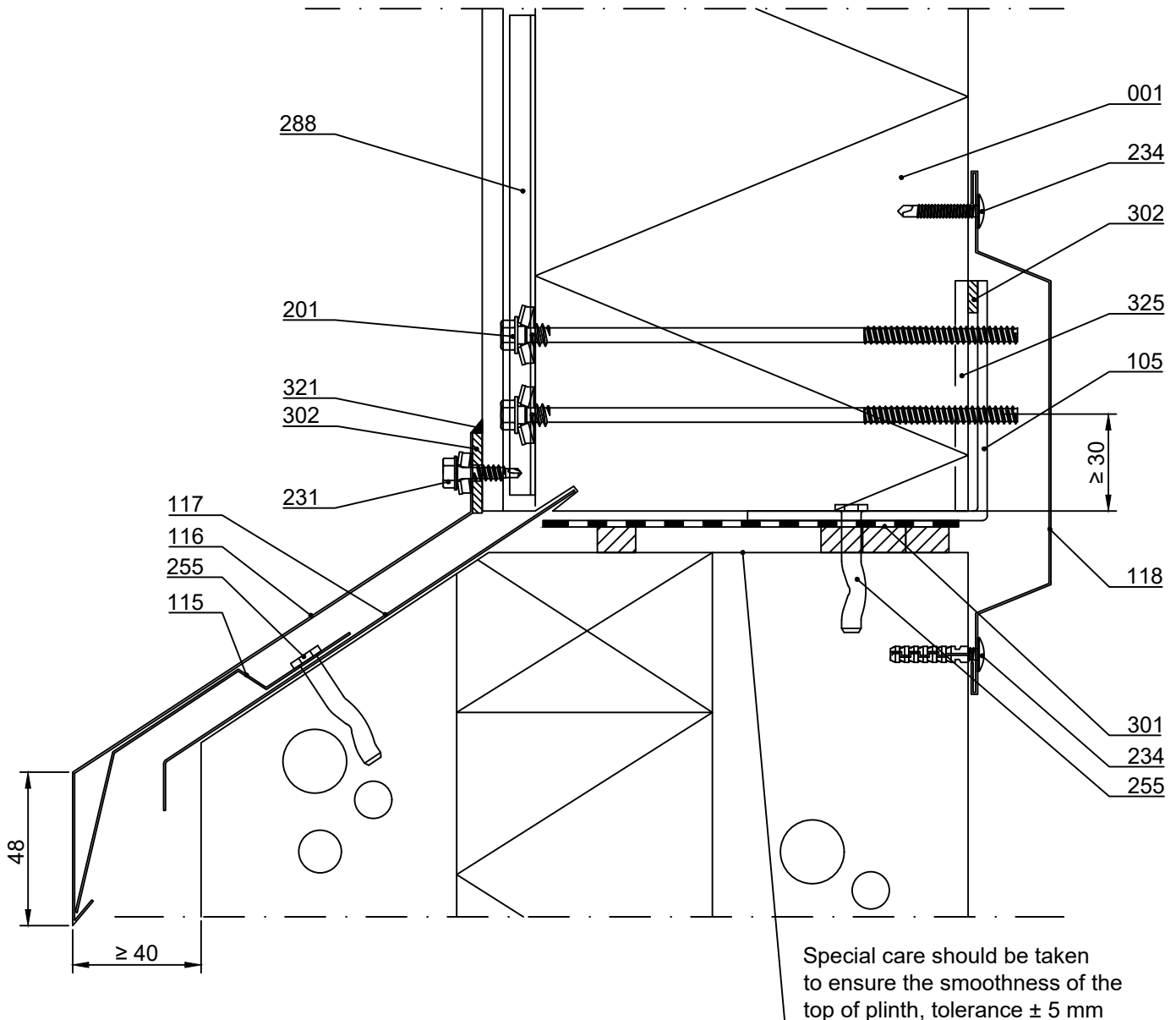
307. Joint sealing Nordic

308. Joint sealing corner Nordic

311. Mineral wool

312. Mineral wool band

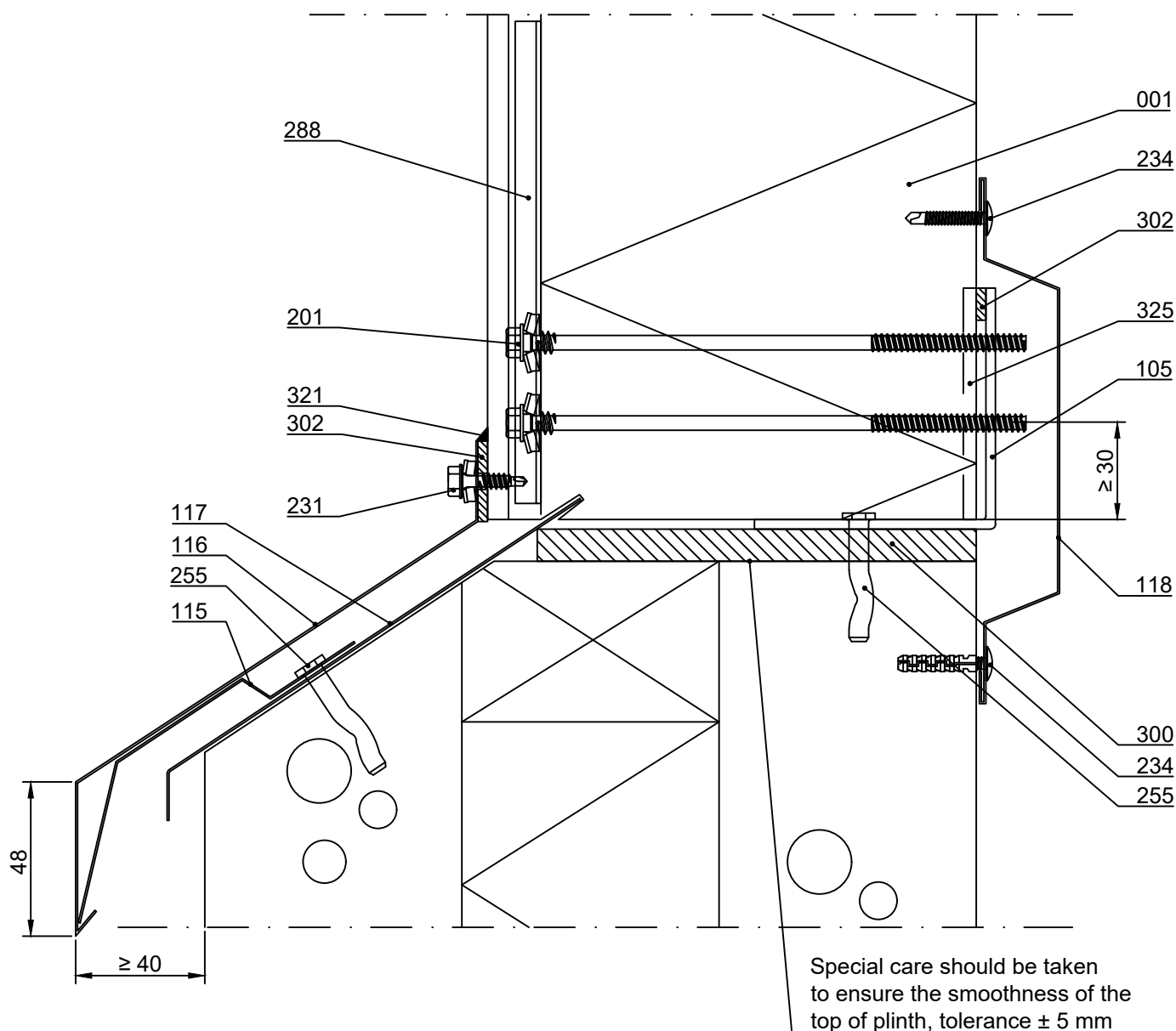
Date 28.08.2024	Rev. date .	Work nr.	Drawing nr. nSPD01-MW-ENERGY-01-EN
Drawn by Ruukki	Rev. .		
Scale 1:2	Building		File nr.



- ☐ 001. Sandwich panel SP2D PIR ENERGY
- ☐ 105. /EA1L7530ZN/ Support L-purlin, (t=3mm)
- ☐ 115. Support flashing, L200 k1000, according to project (installed simultaneously with elements)
- ☐ 116. /EA1P5-___/Cill flashing (can be installed after element installation)
- ☐ 117. Cover flashing, according to project (installed simultaneously with elements)
- ☐ 118. Cover flashing, according to project
- ☐ 131. /EA1JV1/ Vertical joint flashing
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 234. Flat head flashing fastener
- ☐ 255. /S5R48038/ Spike-fastener, concrete c/c600
- ☐ 288. Fastener L15
- ☐ 301. /EA3PSE/ Plinth sealing expanding (wider sealing on internal side)
- ☐ 302. /EA3SS410/ Sealing strip
- ☐ 321. Ruukki silicone
- ☐ 325. Ruukki silicone during installation to inner female groove 60 mm from panel end

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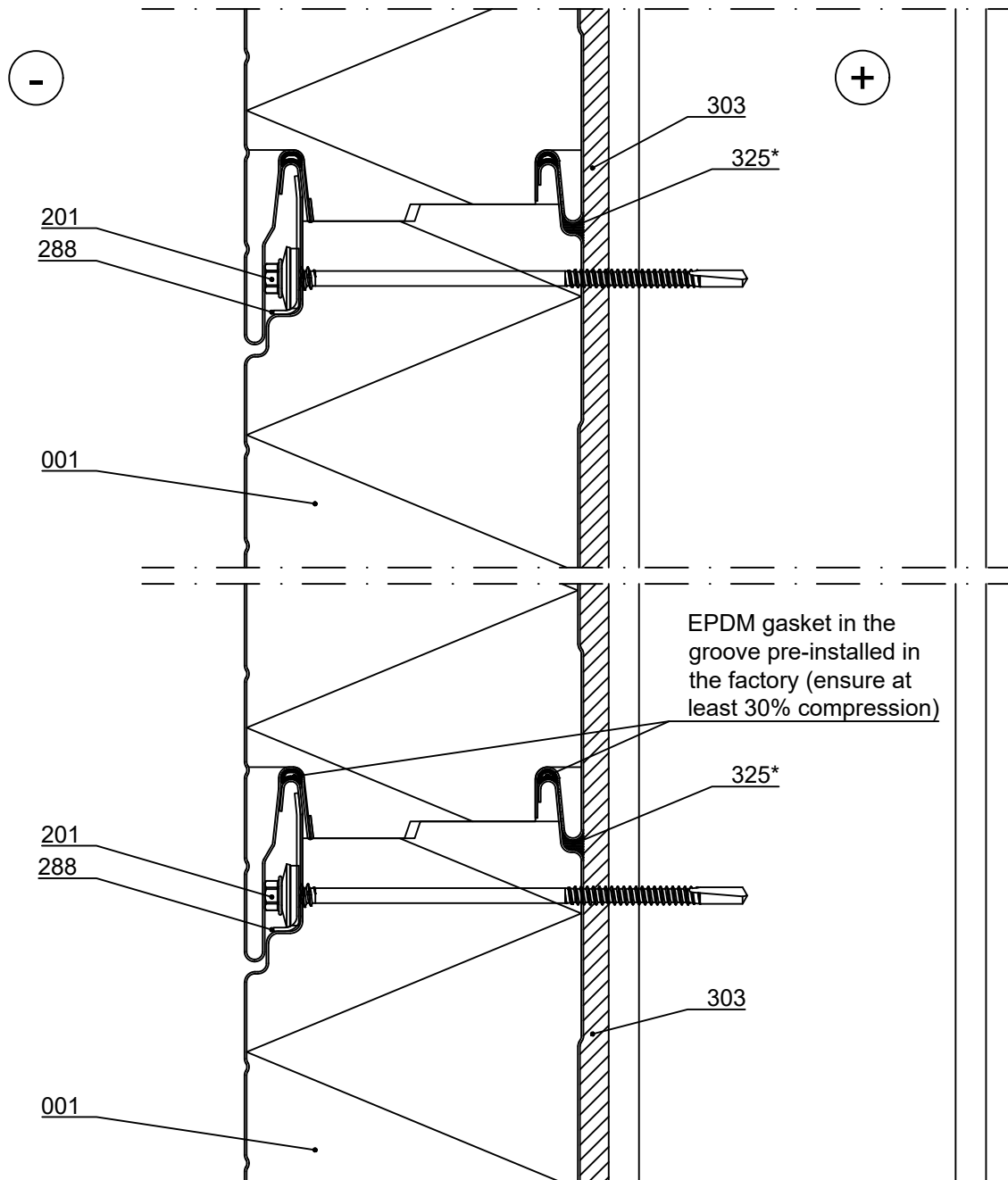
Date 28.08.2024	Rev. date .	Work nr.	Drawing nr. nSPD01-MW-02-EN
Drawn by Ruukki	Rev. .		
Scale 1:2	Building		File nr.



- ☐ 001. Sandwich panel SP2D PIR ENERGY
- ☐ 105. /EA1L7530ZN/ Support L-purlin, (t=3mm)
- ☐ 115. Support flashing, L200 k1000, according to project (installed simultaneously with elements)
- ☐ 116. /EA1P5-___/Cill flashing (can be installed after element installation)
- ☐ 117. Cover flashing, according to project (installed simultaneously with elements)
- ☐ 118. Cover flashing, according to project
- ☐ 131. /EA1JV1/ Vertical joint flashing
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 234. Flat head flashing fastener
- ☐ 255. /S5R48038/ Spike-fastener, concrete c/c600
- ☐ 288. Fastener L15
- ☐ 300. /EA3SP___/ Plinth sealing
- ☐ 302. /EA3SS410/ Sealing strip
- ☐ 321. Ruukki silicone
- ☐ 325. Ruukki silicone during installation to inner female groove 60 mm from panel end

☒ Ruukki's delivery

Date 28.08.2024	Rev. date .	Work nr.	Drawing nr. nSPD02-MW-ENERGY-01-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building	File nr.	

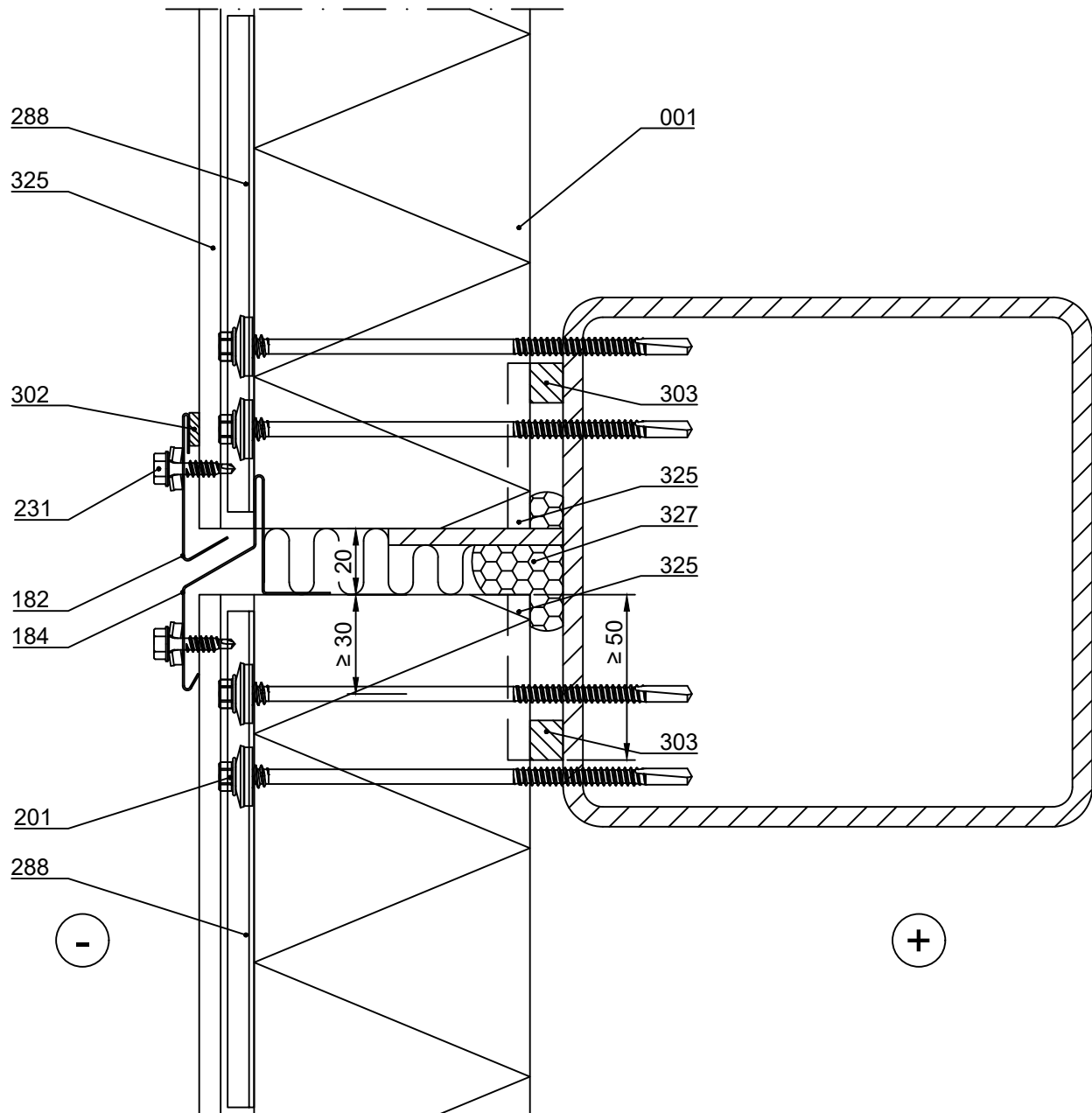


- ☐ 001. Sandwich panel nSPD MW ENERGY
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 288. Fastener L15
- ☐ 303. /EA3SS1210/ Sealing strip - ENERGY
or /EA3SS410/ Sealing strip - non ENERGY

- ☐ 325. /EA3SM310___/ Elastic sealant during inst.
* length equivalent to support structure

☒ Ruukki's delivery

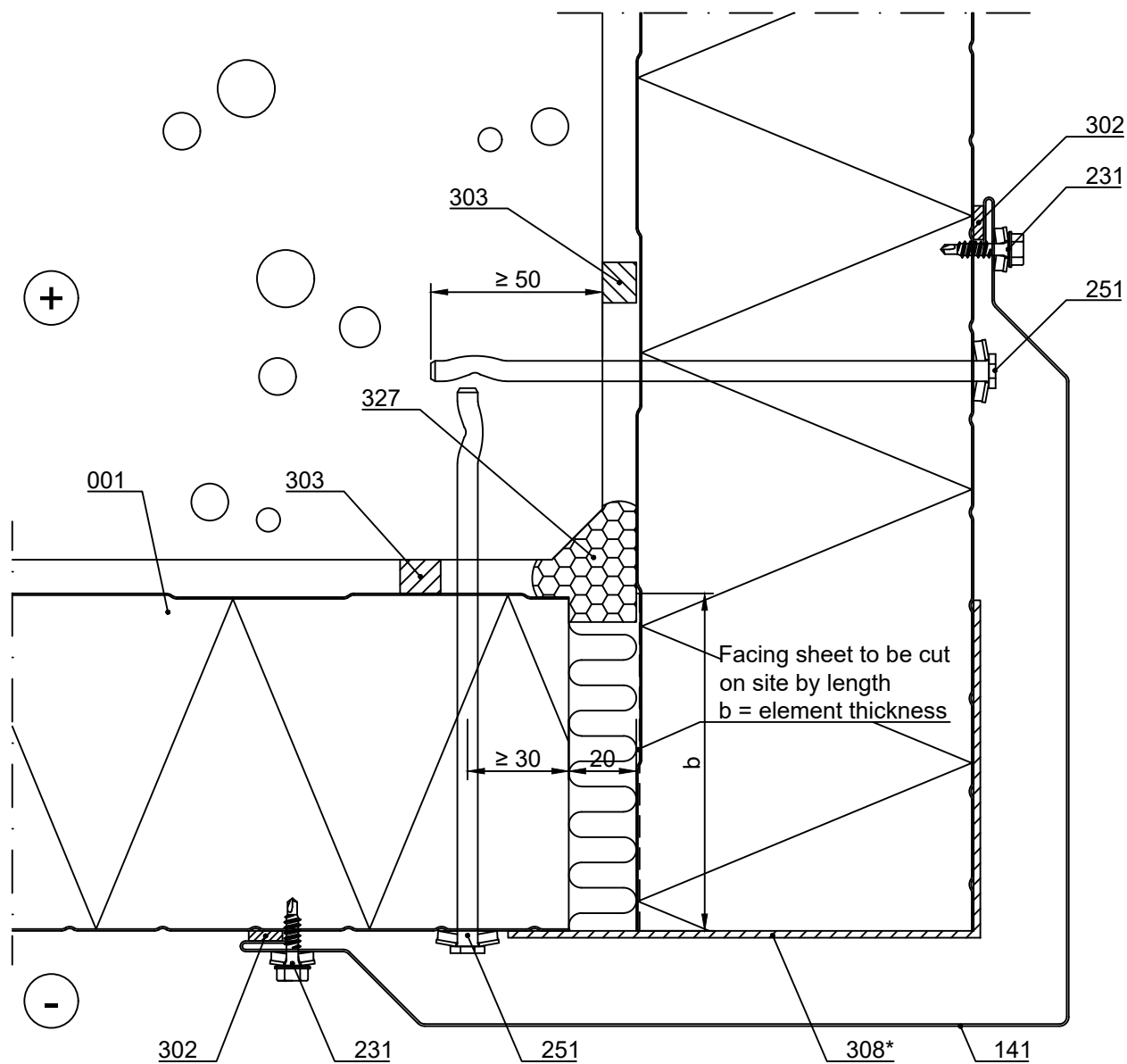
Date 28.08.2024	Rev. date	Work nr.	Drawing nr. nSPD02-MW-ENERGY-02-EN
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Scale 1:2	Building		File nr.



- ☐ 001. Sandwich panel nSPD MW ENERGY
- ☐ 182. Drip flashing, t = 0.6 mm, according to project
- ☐ 184. Drip flashing, t = 0.6 mm, according to project
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 288. Fastener L15
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
- ☐ 303. /EA3SS1210/ Sealing strip
- ☐ 325. /EA3SM310___/ Elastic sealant during inst.
length equivalent to support structure
- ☐ 327. /EA6FM330/ Elastic polyurethane foam

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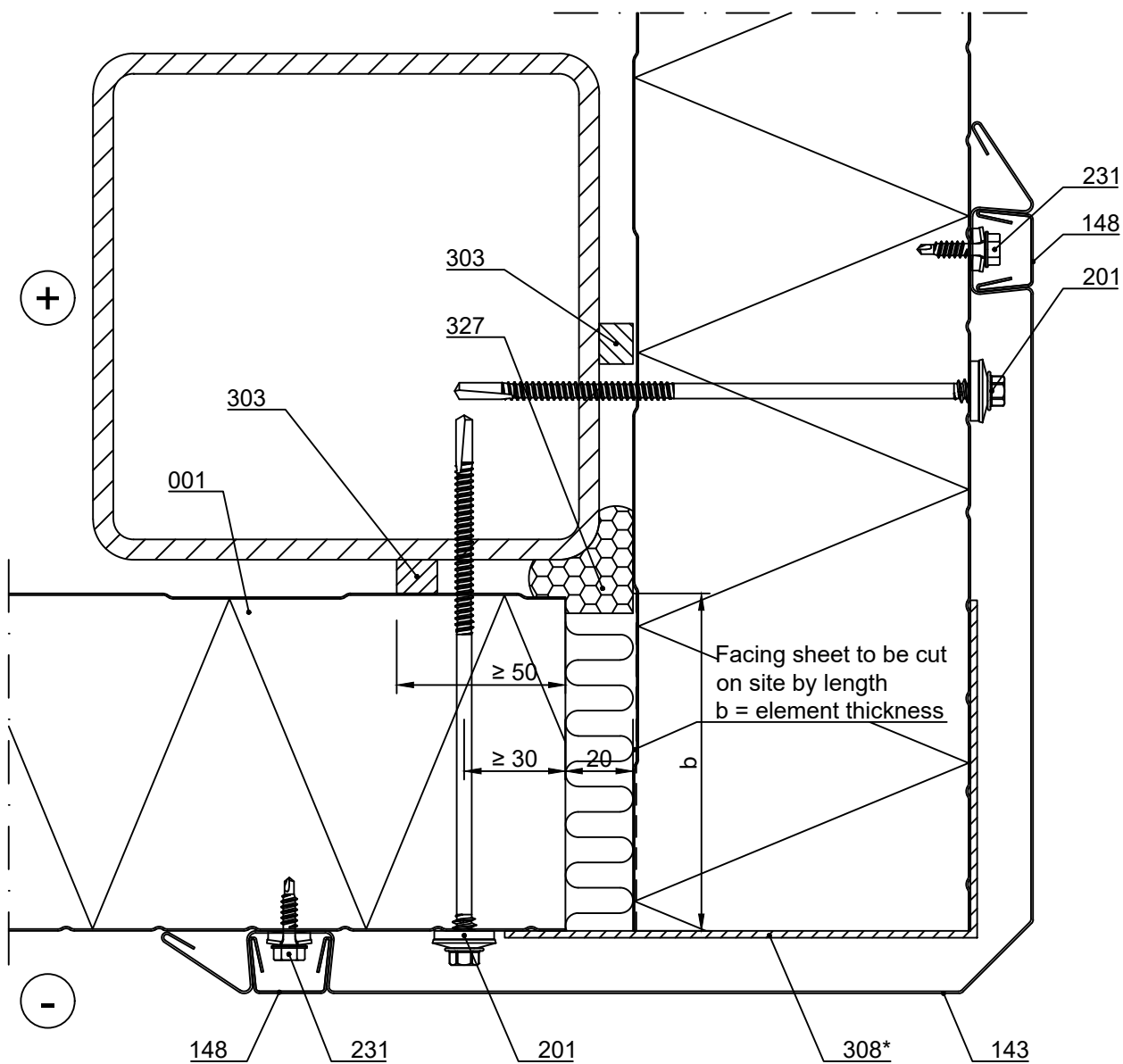
Date 28.08.2024	Rev. date .	Work nr.	Drawing nr. nSPD02-MW-ENERGY-03-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



- ☐ 001. Sandwich panel nSPD MW ENERGY
- ☐ 141. /EA1B28___/ External corner flashing,
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 251. Spike panel fastener, washer with sealing
- ☐ 302. /EA3SS410/ Sealing strip
- ☐ 303. /EA3SS1210/ Sealing strip
- ☐ 308*. /EA3JSCN37025/ Joint sealing corner Nordic (recommended to assure tightness)
- ☐ 327. /EA6FM330/ Elastic polyurethane foam
- ☐ /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)

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Date 28.08.2024	Rev. date .	Work nr.	Drawing nr. nSPD02-MW-ENERGY-04-EN
Drawn by Ruukki	Rev.		
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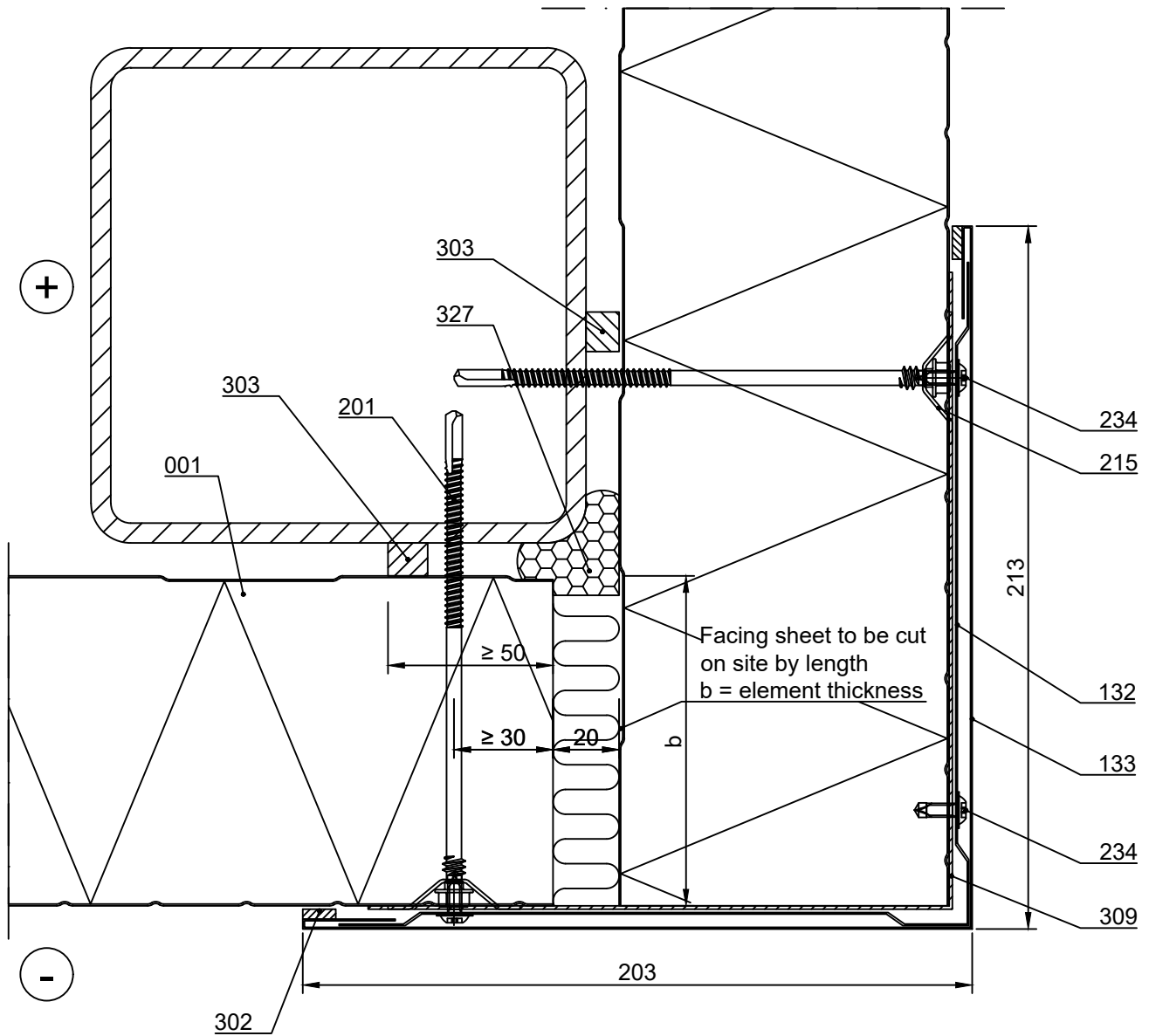


- ☐ 001. Sandwich panel nSPD MW ENERGY
- ☐ 143. /EA1EC5/ External corner flashing
- ☐ 148. /EA1VCO/ Vertical cover flashing
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 303. /EA3SS1210/ Sealing strip

- ☐ 308*. /EA3JSCN37025/ Joint sealing corner Nordic (recommended to assure tightness)
- ☐ 327. /EA6FM330/ Elastic polyurethane foam

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Date 28.08.2024	Rev. date .	Work nr.	Drawing nr. nSPD02-MW-ENERGY-05-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



- ☐ 001. Sandwich panel nSPD MW ENERGY
- ☐ 132. /EA1EXB4/ Corner bottom flashing Invisible
- ☐ 133. /EA1ECI/ External corner flashing Invisible
- ☐ 201. Self-drilling element screw, without washer
- ☐ 215. /EA2W40-910S/ Countersink washer
- ☐ 234. /S1E42013GE/ Flat head flashing fastener
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
- ☐ 303. /EA3SS1210/ Sealing strip
- ☐ 309. /EA3JSC37025/ Joint sealing corner
- ☐ 327. Elastic polyurethane

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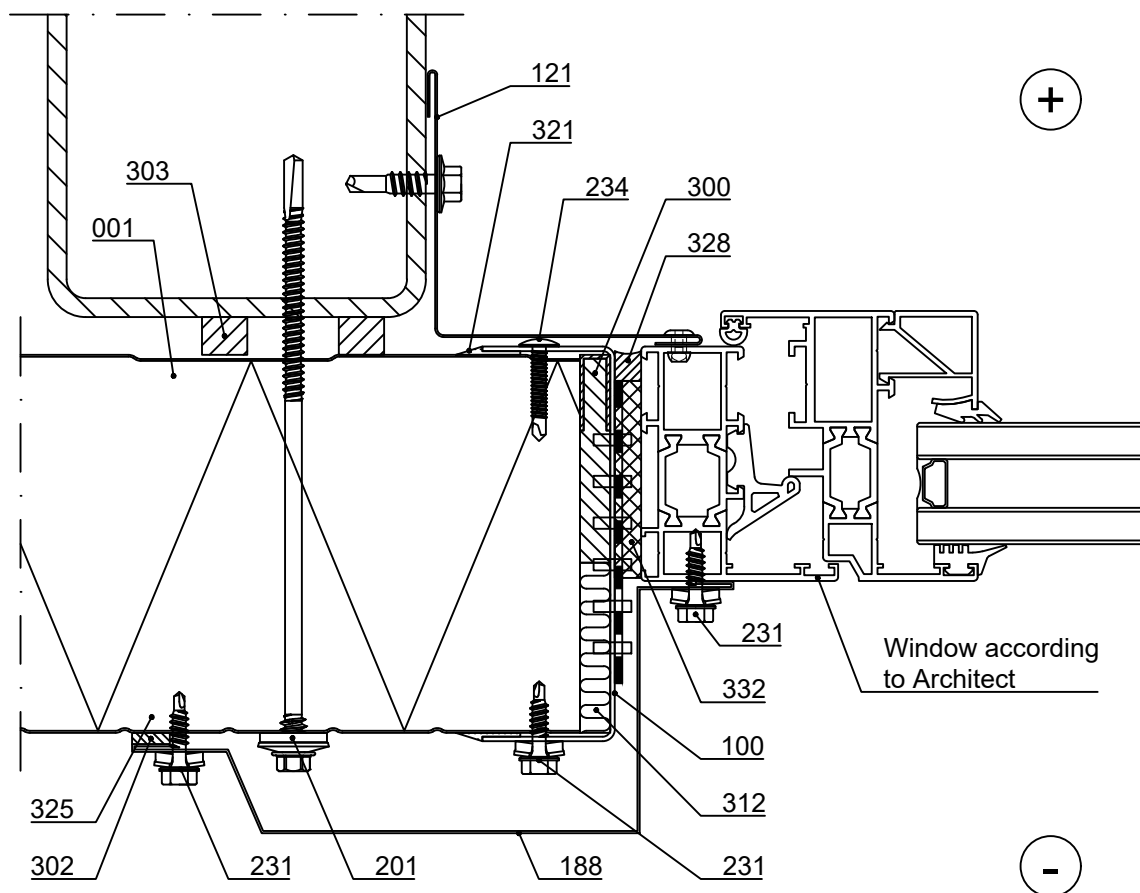
Date 28.08.2024	Rev. date .	Work nr.	Drawing nr. nSPD03-MW-ENERGY-01-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

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 nSPD MW ENERGY | <input type="checkbox"/> 302. /EA3SS410/ Sealing strip |
| <input type="checkbox"/> 100. /EA1W___/ Window purlin | <input type="checkbox"/> /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"/> 188. Cover flashing, t = 0.6 mm, acc. to project | <input type="checkbox"/> 312. /EAWS___/ Mineral wool band |
| <input type="checkbox"/> 201. Self-drilling element screw, washer with sealing | <input type="checkbox"/> 321. /EA3SM310___/ Elastic sealant |
| <input type="checkbox"/> 231. Flashing fastener, washer with sealing | <input type="checkbox"/> 328. Elastic sealant |
| <input type="checkbox"/> 234. Flat head flashing fastener | <input type="checkbox"/> 332. PU foam |
| <input type="checkbox"/> 300. /EA3SWE54318/ Expandable sealing band
(plastic tape facing inside) | |

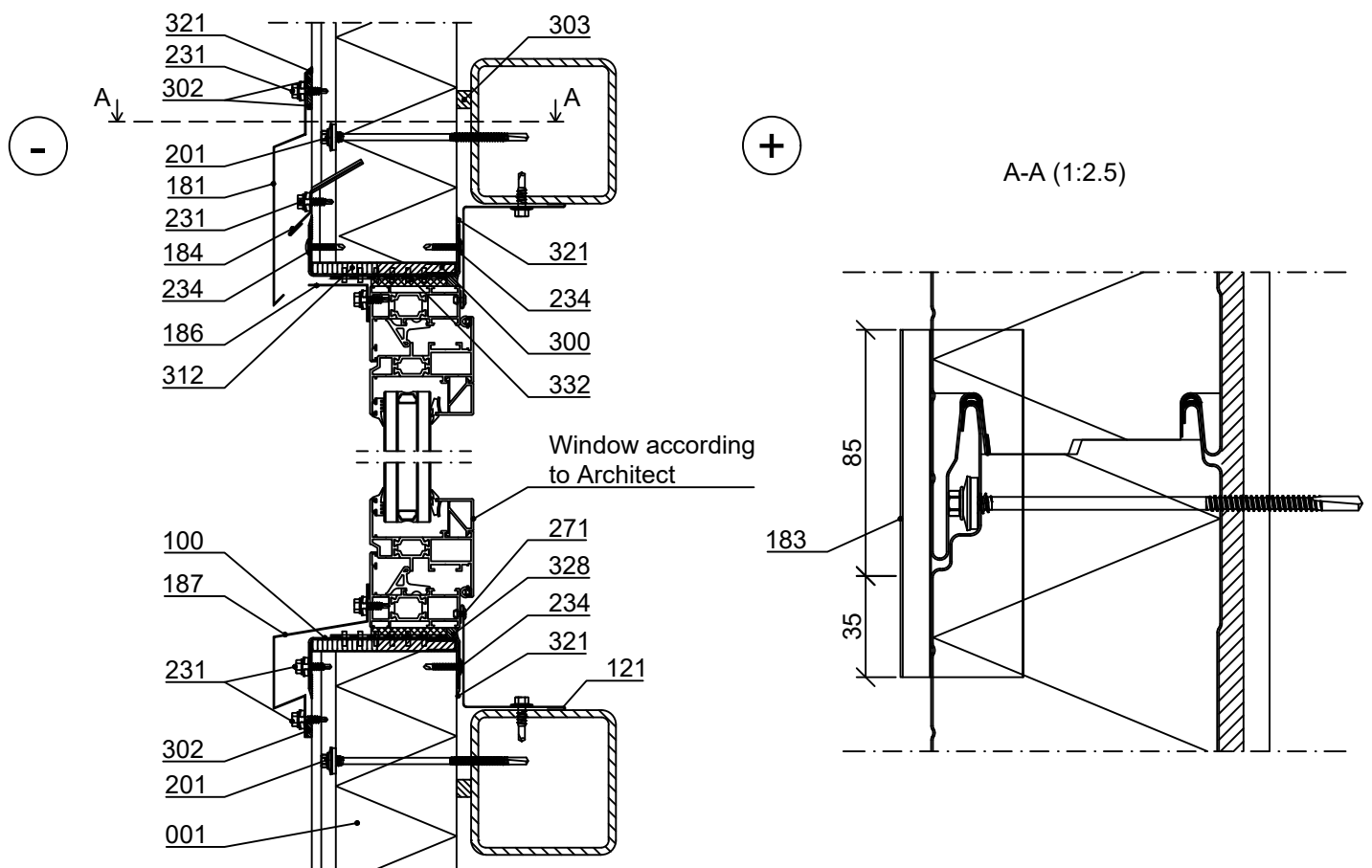
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Date 28.08.2024	Rev. date .	Work nr.	Drawing nr. nSPD03-MW-ENERGY-02-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

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.

Supporting structures, if necessary, according to structural designer.



- | | |
|--|--|
| <input type="checkbox"/> 001. Sandwich panel nSPD 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 |
| <input type="checkbox"/> 121. /EA1B05_/ Internal flashing | <input type="checkbox"/> /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas) |
| <input type="checkbox"/> 181. Drip flashing, t = 0.6 mm, according to project | <input type="checkbox"/> 303. /EA3SS1210/ Sealing strip |
| <input type="checkbox"/> 184. 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 | |

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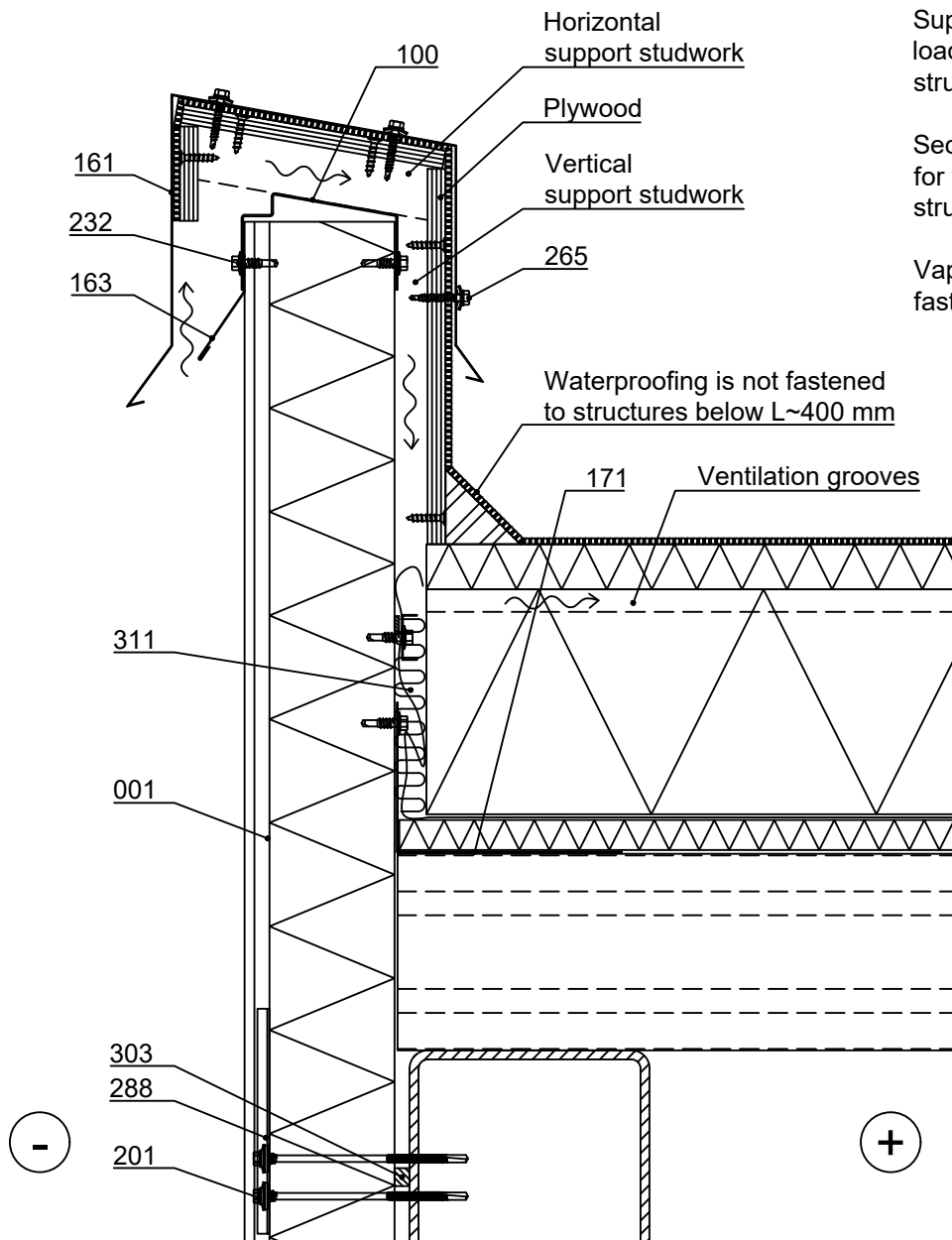
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Insulation thickness is dimensioned according to project.

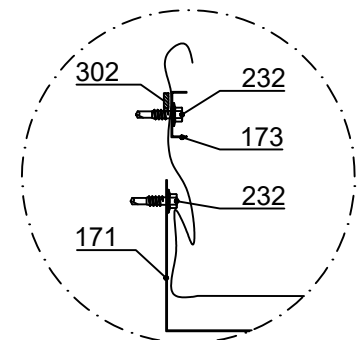
Supports and fastening of load-bearing sheet according to structural designer.

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

Vapour barrier and insulation support fastening, see Detail A



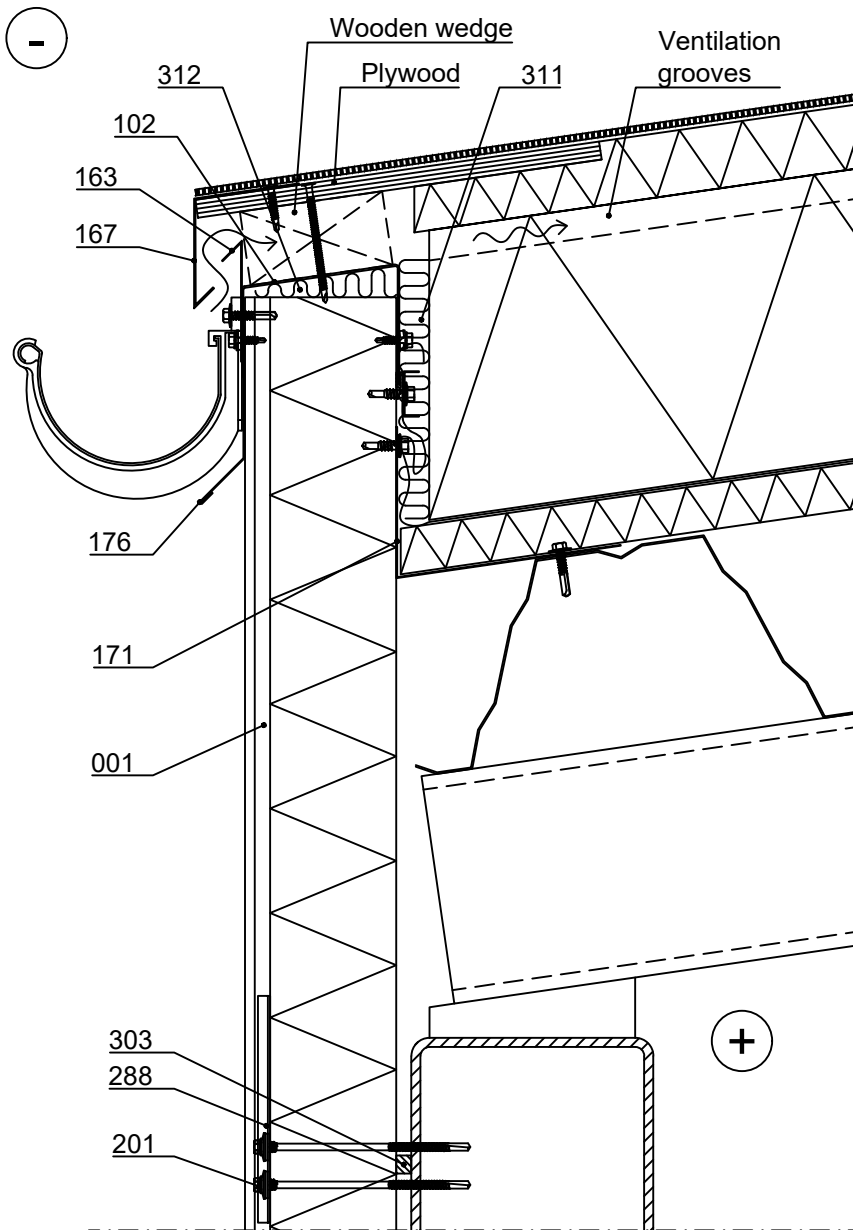
DETAIL A



- ☐ 001. Sandwich panel SP2B PIR ENERGY
- ☐ 100. /EA1EP___/ Purlin
- ☐ 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
- ☐ 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
- ☐ 288. Fastener L15
- ☐ 302. /EA3SS410/ Sealing, between panel and vapour barrier
- ☐ 311. /EAWS5657850/ Mineral wool

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Date 28.08.2024	Rev. date .	Work nr.	Drawing nr. nSPD04-MW-ENERGY-02-EN
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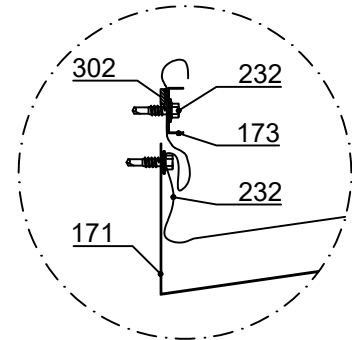
Insulation thickness is dimensioned according to project.

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 SP2B PIR 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"/> 163. Storm flashing, t = 0.6 mm, according to project | <input type="checkbox"/> 288. Fastener L15 |
| <input type="checkbox"/> 167. Eave flashing, t = 1.0 mm, according to project | <input type="checkbox"/> 302. /EA3SS410/ Sealing, between panel and vapour barrier |
| <input type="checkbox"/> 171. Insulation support flashing, t = 0.6 mm | <input type="checkbox"/> 311. /EAWS5657850/ Mineral wool |
| <input type="checkbox"/> 173. U-flashing to vapour barrier fastening, t = 0.6 mm, according to project | <input type="checkbox"/> 312. /EAWS___/ Mineral wool band |

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