


Drawing nr.	Contents of drawing
SPA01-1E-EN	Plinth, horizontal installation
SPA01-2E-EN	Plinth, horizontal installation
SPA01-3E-EN	Plinth, horizontal installation
SPA01-4E-EN	Plinth, horizontal installation
SPA01-5E-EN	Plinth, horizontal installation
SPA01-6E-EN	Plinth, vertical- and diagonal installation
SPA01-7E-EN	Plinth, detail
SPA01-8E-EN	Plinth, detail
SPA01-9E-EN	Plinth, detail
SPA01-10E-EN	Plinth, detail
SPA01-11E-EN	Plinth, detail
SPA01-12E-EN	Plinth, detail
SPA01-30E-EN	Plinth, horizontal installation, invisible flashing
SPA02-1E-EN	Joint between panels, horizontal installation
SPA02-2E-EN	Joint between panels, vertical- and diagonal installation
SPA03-1E-EN	Vertical joint, horizontal inst., rectangle steel column
SPA03-3E-EN	Vertical joint, horizontal inst., rectangle steel column
SPA03-4E-EN	Vertical joint, horizontal installation, concrete column
SPA03-5E-EN	Vertical joint, horizontal inst., laminated timber column
SPA03-6E-EN	Vertical joint, horizontal installation, vemo-fastening
SPA03-7E-EN	Vertical joint, horizontal installation, T-steel, parapet
SPA03-8E-EN	Vertical joint, horizontal inst., rectangle steel column
SPA03-30E-EN	Vertical joint, horizontal installation,, invisible flashing
SPA04-1E-EN	External corner, horizontal inst., rectangle steel column
SPA04-2E-EN	External corner, horizontal installation, I-steel column
SPA04-3E-EN	External corner, horizontal installation, concrete column
SPA04-4E-EN	External corner, horizontal inst., rectangle steel column
SPA04-5E-EN	External corner, horizontal inst., laminated timber column
SPA04-6E-EN	External corner, horizontal installation, concrete filled column
SPA04-9E-EN	External corner, horizontal installation, L-steel, parapet
SPA04-30E-EN	External corner SPA200, horizontal installation,invisible flashing
SPA04-31E-EN	External corner SPA230, horizontal installation,invisible flashing
SPA04-32E-EN	External corner SPA300, horizontal installation,invisible flashing
SPA04-33E-EN	External corner, corner element, horizontal installation,invisible flashing
SPA05-1E-EN	Internal corner, horizontal inst., rectangle steel column
SPA05-2E-EN	Internal corner, horizontal inst., rectangle steel column
SPA05-3E-EN	Internal corner, horizontal installation, L-steel, parapet
SPA05-30E-EN	Internal corner, horizontal installation,invisible flashing


City sector	Block	Site/Reg. nr.	File nr.
Building type	Drawing type		
Building, Name and address	Contents of drawing		Nr.
 Ruukki Construction Oy Panuntie 11 00620 HELSINKI FINLAND	Sandwich panel SPA BASE DETAIL DRAWINGS External walls		Scale
	tel. +358 (0) 20 59 150 www.ruukki.com		
Date 27.09.2023	Designer	Work nr.	Work nr.
Drawn by Ruukki	Checked	Drw. nr.	Rev.

Drawing nr.	Contents of drawing
SPA06-1E.1-EN	Parapet, horizontal installation, side eaves, oblique purlin
SPA06-1E.2-EN	Parapet, horizontal installation, side eaves, straight purlin
SPA06-2E-EN	Parapet, horizontal installation, end eaves
SPA06-3E-EN	Parapet, vertical- and diagonal installation, side eaves
SPA06-4E-EN	Parapet, vertical- and diagonal installation, end eaves
SPA06-5E-EN	Cantilever eaves, horizontal inst., side eaves, prof. sheet
SPA06-6E-EN	Cantilever eaves, horizontal inst., end eaves, prof. sheet
SPA06-7E-EN	Cantilever eaves, horizontal inst., side eaves, bitumen roof
SPA06-8E-EN	Cantilever eaves, horizontal inst., end eaves, bitumen roof
SPA06-9E-EN	Eaves, horizontal installation, side eaves, profiled sheet
SPA06-10E-EN	Eaves, horizontal installation, end eaves, profiled sheet
SPA06-11E-EN	Eaves, horizontal installation, side eaves, bitumen roof
SPA06-12E-EN	Eaves, horizontal installation, end eaves, bitumen roof
SPA06-13E-EN	Vapour barrier and insulation supp. flashing fastening
SPA06-30E-EN	Parapet, horizontal installation, invisible flashing
SPA06-31E-EN	Eaves, horizontal installation, invisible flashing
SPA06-32E-EN	Eaves, horizontal installation, invisible flashing

SPA07-1E-EN Uplifted roofing, horizontal installation


SPA08-1E-EN System window, horizontal installation, small window
SPA08-2E-EN System window, horizontal installation, small window
SPA08-3E-EN System window, horizontal installation, large window
SPA08-4E-EN System window, horizontal installation, large window
SPA08-5E-EN Window, horizontal installation
SPA08-6E-EN Window, horizontal installation
SPA08-30E-EN Window, horizontal installation, invisible flashing
SPA08-31E-EN Window, horizontal installation, invisible flashing
SPA08-32E-EN Window, invisible flashing

SPA09-1E-EN System door, horizontal installation, single door
SPA09-2E-EN System door, horizontal installation, single door
SPA09-3E-EN System door, horizontal installation, double door
SPA09-4E-EN System door, horizontal installation, double door
SPA09-5E-EN Door, horizontal installation
SPA09-6E-EN Door, horizontal installation
SPA09-7E-EN Overhead door, horizontal installation
SPA09-8E-EN Overhead door, horizontal installation
SPA09-30E-EN Door, horizontal installation, invisible flashing
SPA09-31E-EN Door, horizontal installation, invisible flashing
SPA09-32E-EN Door, invisible flashing

City sector	Block	Site/Reg. nr.	File nr.		
Building type			Drawing type Nr.		
Building, Name and address			Contents of drawing Scale		
 <p>Ruukki Construction Oy Panuntie 11 00620 HELSINKI FINLAND</p> <p>tel. +358 (0) 20 59 150 www.ruukki.com</p>			<p>Sandwich panel SPA BASE DETAIL DRAWINGS External walls</p>		
Date 27.09.2023	Designer	Work nr.	Work nr.	Drw. nr.	Rev.
Drawn by Ruukki	Checked				

Drawing nr.	Contents of drawing
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SPA10-2E-EN	Sandwich panel SPA100
SPA10-3E-EN	Sandwich panel SPA125
SPA10-4E-EN	Sandwich panel SPA150
SPA10-5E-EN	Sandwich panel SPA175
SPA10-6E-EN	Sandwich panel SPA200
SPA10-7E-EN	Sandwich panel SPA230
SPA10-8E-EN	Sandwich panel SPA200+
SPA10-9E-EN	Sandwich panel SPA300
SPA11-1E-EN	Rib R150 surface profiling
SPA11-2E-EN	Rib R200 surface profiling
SPA11-3E-EN	Rib R600 surface profiling
SPA11-4E-EN	Smooth F surface (no profiling)
SPA11-5E-EN	M15 (Micro) surface profiling
SPA11-6E-EN	L50 (Linear) surface profiling

City sector	Block	Site/Reg. nr.	File nr.
Building type	Drawing type		
Building, Name and address	Contents of drawing		Nr.
 <p>Ruukki Construction Oy Panuntie 11 00620 HELSINKI FINLAND</p> <p>tel. +358 (0) 20 59 150 www.ruukki.com</p>	<p>Sandwich panel SPA BASE DETAIL DRAWINGS External walls</p>		Scale
Date	Designer	Work nr.	Work nr.
27.09.2023			
Drawn by	Checked	Drw. nr.	Rev.
Ruukki			



Contents of drawing

Sandwich panel SPA
Accessory numbers in details

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA00-0E-EN
Drawn by Ruukki	Rev.		
Scale	Building		File nr.

SANDWICH PANELS

- 001. Sandwich panel SPA 80-230
- 002. Sandwich panel SPA corner element

FLASHINGS

- 100. Standard purlins and starter tracks
- 101-109. Purlins and other fastening flashings

- 111-119. Plinth flashings

- 121-124. Fastening plates (for vemo-fastenings)
- 125-129. Purlins

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

- 161-179. Eave flashings

- 181-194. Window- and door flashings
- 195-199. Flashings used in uplifted roofs

FASTENERS

- 201. Self-drilling element screw, washer with sealing
- 202. Self-drilling element screw, without washer
- 205. Self-drilling element screw / fastener screw for roof
- 206. Self-drilling element screw / fastener screw for roof

- 211. Self-threading element screw, washer with sealing
- 212. Self-threading element screw, without washer

- 215. Countersink washer

- 221. Internal thread socket and hex bolt (for vemo fastenings)

- 231. Flashing fastener, washer with sealing
- 232. Flashing fastener, without washer
- 233. Flashing fastener, washer with sealing
- 234. Flat headed flashing fastener
- 235. Joint panel fastener, stainless steel, washer with sealing

- 241. Fastener screw, washer with sealing
- 242. Fastener screw, without washer

- 251. Spike element fastener, washer with sealing
- 255. Spike fastener, without washer

- 261. Self-drilling element screw to wood, washer with sealing
- 262. Self-drilling element screw to wood, without washer

- 265. Fastener screw to wood, washer with sealing

- 271. Rivet

SEALANTS AND INSULATIONS

- 300. Plinth sealing (SPA80-230)
- 302. Sealing band for flashings and for wood / steel frame
- 303. Sealing band for concrete frame
- 305. Joint sealing
- 306. Joint sealing
- 307. Joint sealing
- 308. Joint sealing corner

- 310. Mineral- / stonewool
- 311. Mineral wool
- 312. Mineral wool band

- 321. Ruukki silicone

- 323. Ruukki silicone for windows and doors

- 325. Ruukki silicone during installation

- 330. PU insulation
- 331. EPDM sealing

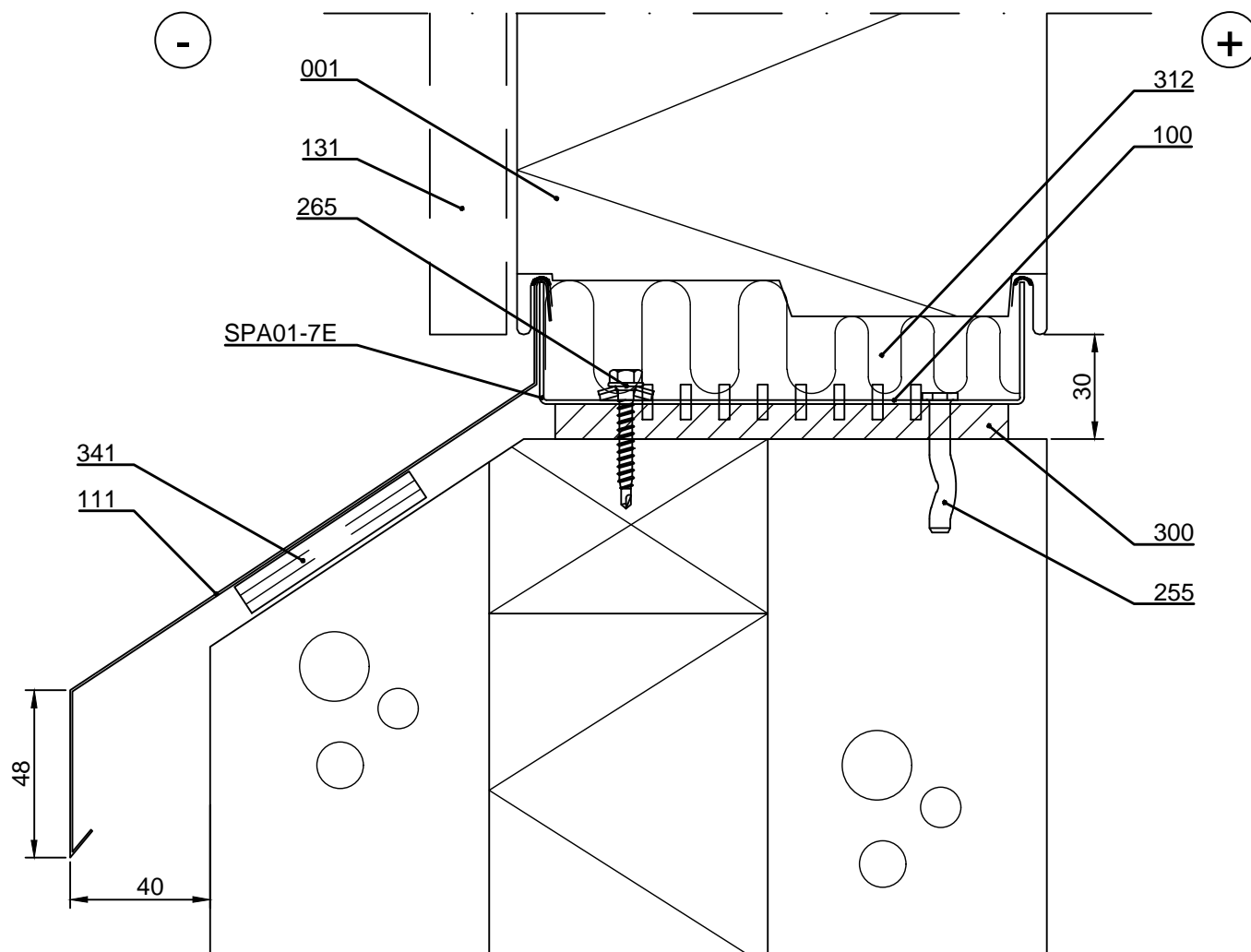
- 341. Plywood
- 342. L-profile



Contents of drawing

Sandwich panel SPA, horizontal installation
Plinth, vertical section
Option 1

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA01-1E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



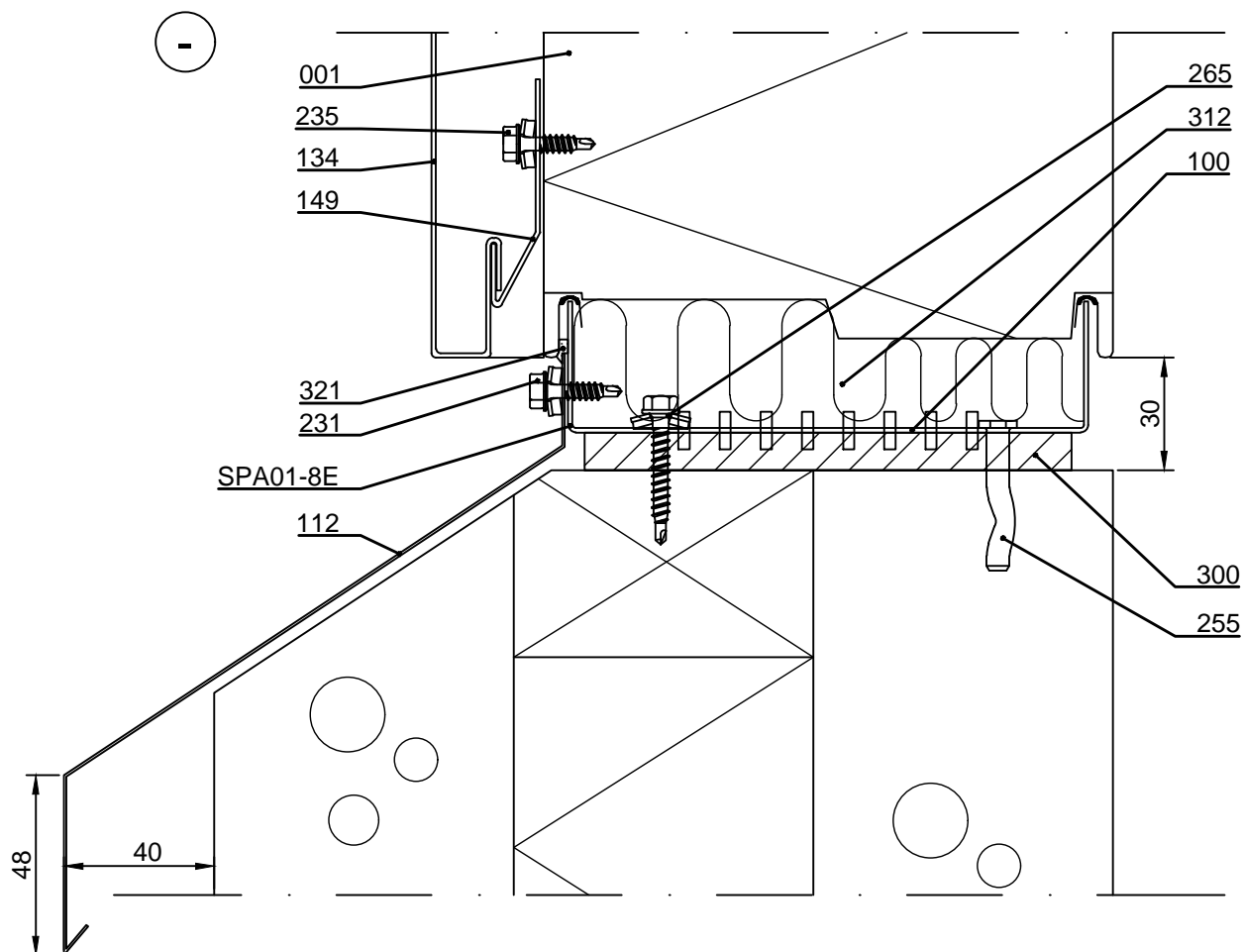
- ☐ 001. Sandwich panel SPA
- ☐ 100. /EA1U___/ Starter track
- ☐ 111. /EA1P3-___/ Cill flashing (installed simultaneously with elements)
- ☐ 131. /EA1JV1/ Vertical joint flashing
- ☐ 255. /S5R48038/ Spike-fastener, concrete c/c600
- ☐ 265. /S3H55042WA4B/ Fastener, wood c/c600
- ☐ 300. /EA3SP___10/ Plinth sealing
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 341. Plywood, if necessary

☒ Ruukki's delivery

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Sandwich panel SPA, horizontal installation
Plinth, vertical section
Option 2

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA01-2E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



- ☐ 001. Sandwich panel SPA
- ☐ 100. /EA1U___/ Starter track
- ☐ 112. /EA1P1-___/ Cill flashing (can be installed after element installation)
- ☐ 134. /EA1JV10-11/ Vertical joint panel
- ☐ 149. /EA1SF1/ Joint panel starting fillet
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 235. Joint panel fastener, stainless steel, washer with sealing
- ☐ 255. /S5R48038/ Spike-fastener, concrete c/c600
- ☐ 265. /S3H55042WA4B/ Fastener, wood c/c600
- ☐ 300. /EA3SP___10/ Plinth sealing
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 321. Ruukki silicone

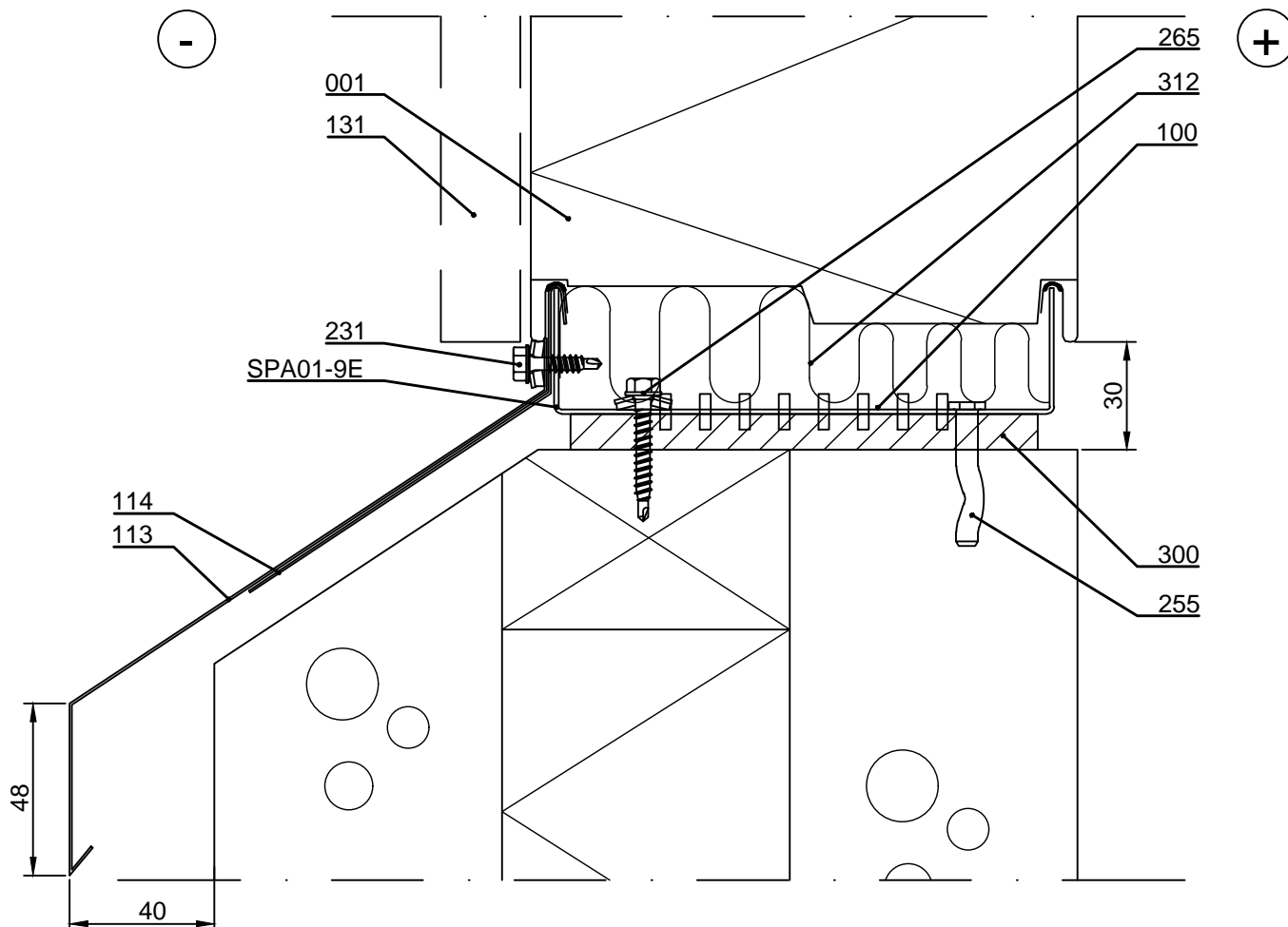
☒ Ruukki's delivery



Contents of drawing

Sandwich panel SPA, horizontal installation
Plinth, vertical section
Option 3

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA01-3E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

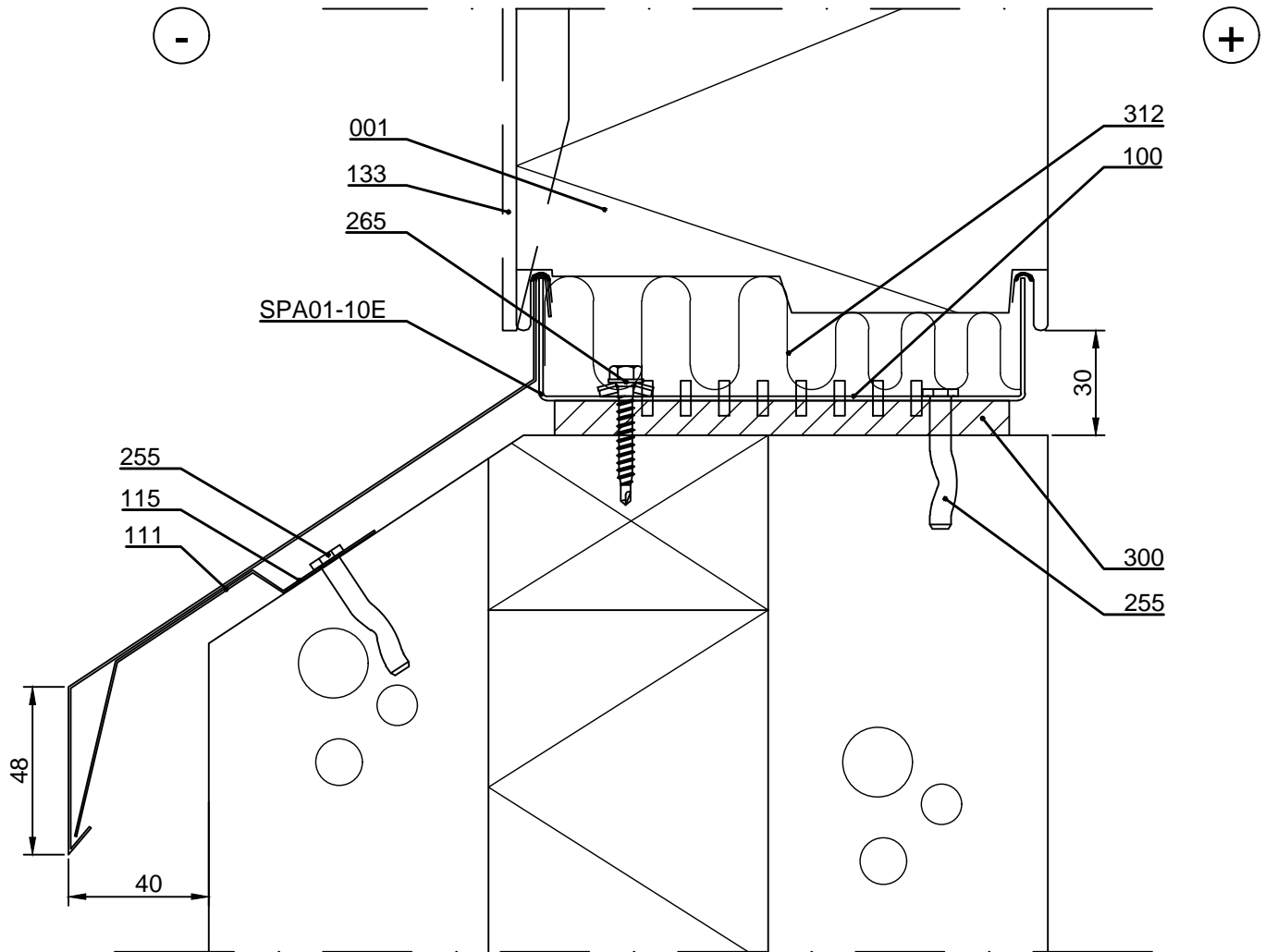


- ☐ 001. Sandwich panel SPA
- ☐ 100. /EA1U___/ Starter track
- ☐ 113. /EA1P4-___/ Cill flashing (can be installed after element installation)
- ☐ 114. /EA1PS1-___/ Support flashing (installed simultaneously with elements)
- ☐ 131. /EA1JV1/ Vertical joint flashing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 255. /S5R48038/ Spike-fastener, concrete c/c600
- ☐ 265. /S3H55042WA4B/ Fastener, wood c/c600
- ☐ 300. /EA3SP___10/ Plinth sealing
- ☐ 312. /EAWS___/ Mineral wool band

☒ Ruukki's delivery

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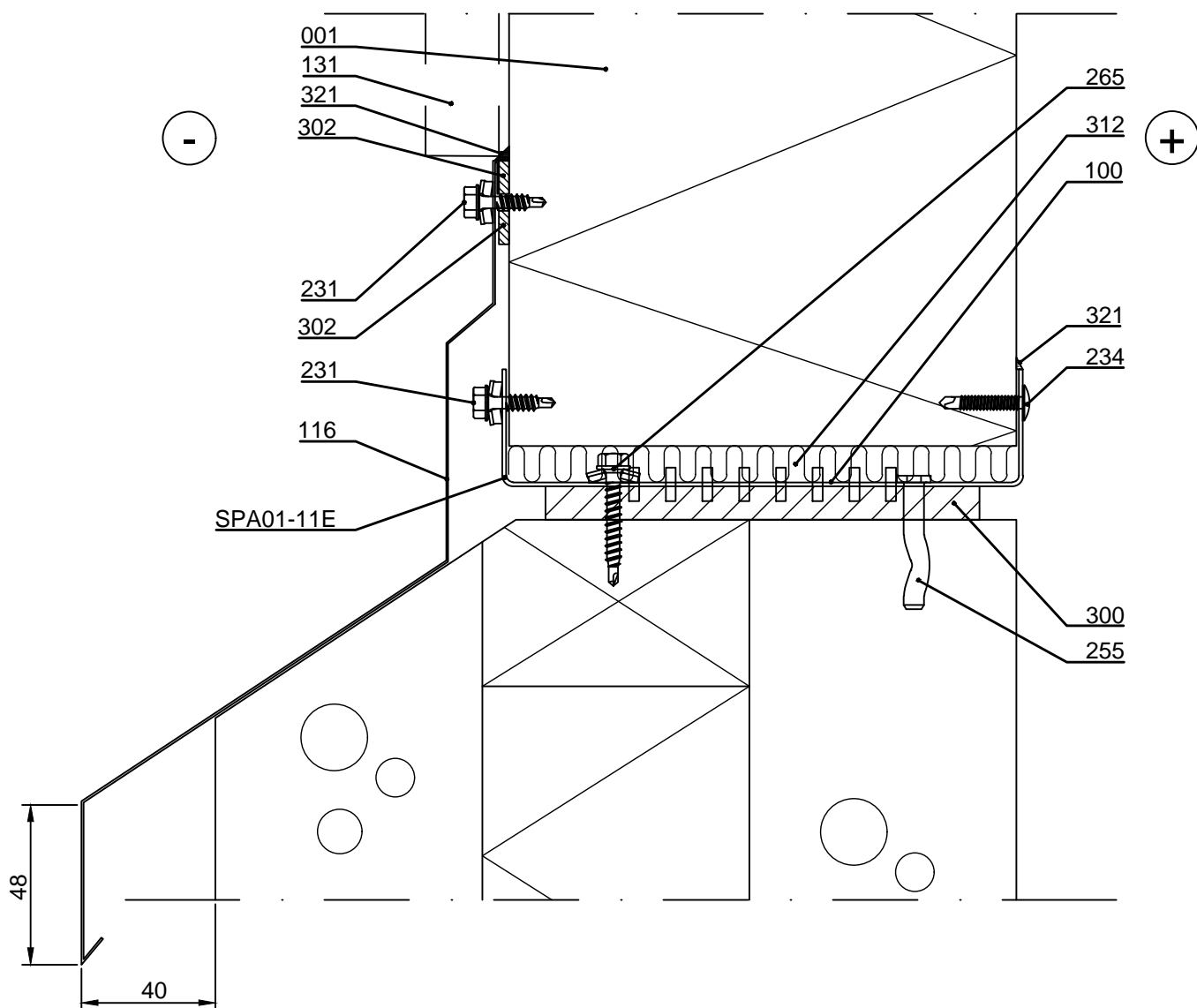
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA01-4E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



- ☐ 001. Sandwich panel SPA
- ☐ 100. /EA1U___/ Starter track
- ☐ 111. /EA1P3-___/ Cill flashing (installed simultaneously with elements)
- ☐ 115. Support flashing, L200 k1000, according to project (installed simultaneously with elements)
- ☐ 133. /EA1JV9/ Vertical joint flashing
- ☐ 255. /S5R48038/ Spike-fastener, concrete c/c600
- ☐ 265. /S3H55042WA4B/ Fastener, wood c/c600
- ☐ 300. /EA3SP___10/ Plinth sealing
- ☐ 312. /EAWS___/ Mineral wool band

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Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA01-5E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



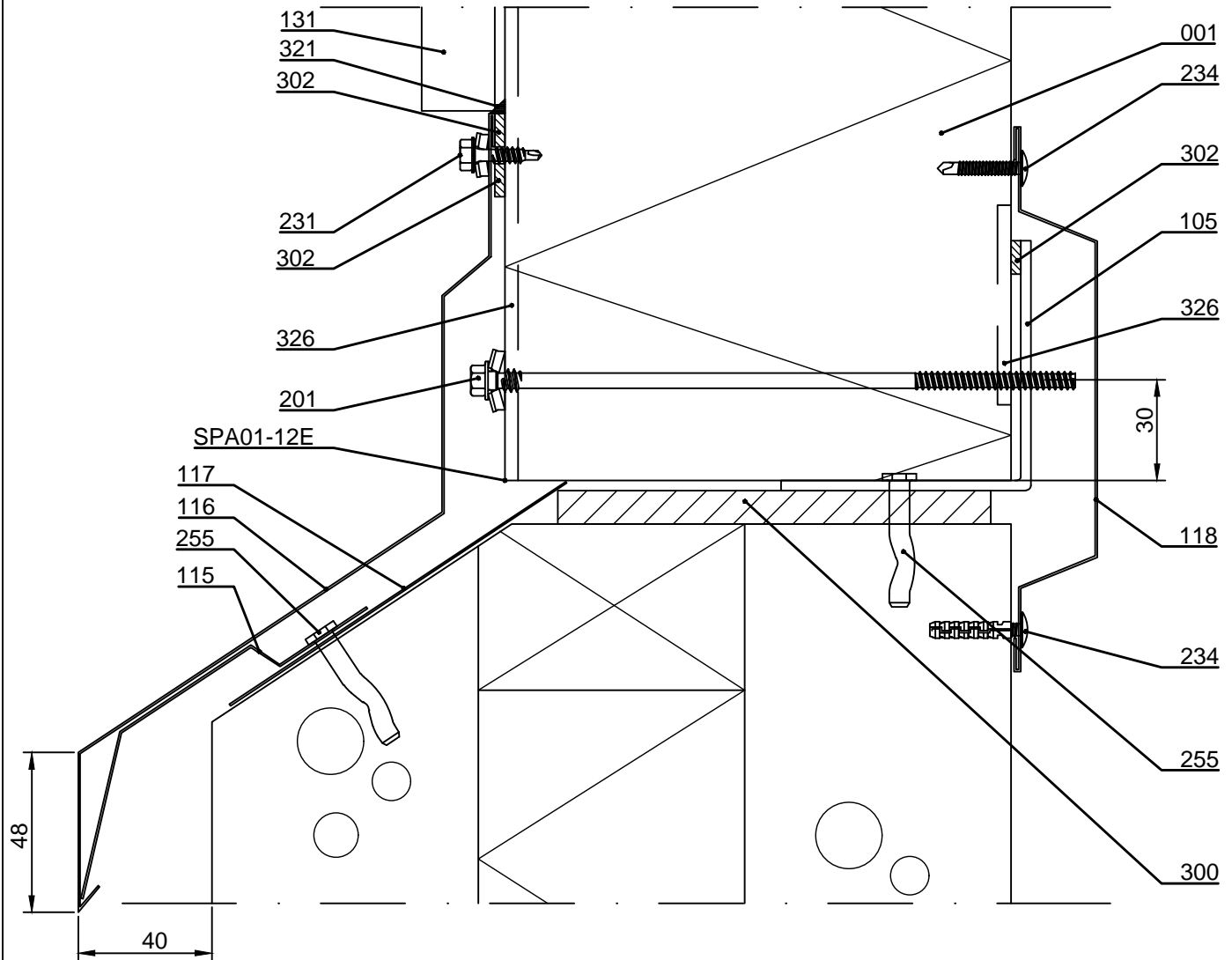
- ☐ 001. Sandwich panel SPA
- ☐ 100. /EA1W___/ Purlin
- ☐ 116. /EA1P5-___/ Cill flashing
(can be installed after element installation)
- ☐ 131. /EA1JV1/ Vertical joint flashing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 234. Flat head flashing fastener

- ☐ 255. /S5R48038/ Spike-fastener, concrete c/c600
- ☐ 265. /S3H55042WA4B/ Fastener, wood c/c600
- ☐ 300. /EA3SP___10/ Plinth sealing
- ☐ 302. /EA3SS410/ Sealing strip
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 321. Ruukki silicone

☒ Ruukki's delivery

Sandwich panel SPA, vertical- and
diagonal installation
Plinth, vertical section

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA01-6E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



- | | |
|--|---|
| <input type="checkbox"/> 001. Sandwich panel SPA | <input type="checkbox"/> 231. Flashing fastener, washer with sealing |
| <input type="checkbox"/> 105. /EA1L75/ Support L-purlin, (t=3mm) | <input type="checkbox"/> 234. Flat head flashing fastener |
| <input type="checkbox"/> 115. Support flashing, L200 k1000, according to project
(installed simultaneously with elements) | <input type="checkbox"/> 255. /S5R48038/ Spike-fastener, concrete c/c600 |
| <input type="checkbox"/> 116. /EA1P5-___/Cill flashing (can be installed
after element installation) | <input type="checkbox"/> 300. /EA3SP___10/ Plinth sealing |
| <input type="checkbox"/> 117. Cover flashing, according to project
(installed simultaneously with elements) | <input type="checkbox"/> 302. /EA3SS410/ Sealing strip |
| <input type="checkbox"/> 118. Cover flashing, according to project | <input type="checkbox"/> 321. Ruukki silicone |
| <input type="checkbox"/> 131. /EA1JV1/Vertical joint flashing | <input type="checkbox"/> 325. Ruukki silicone during inst.
to outer female groove full length of element and
inner female groove 60 mm from panel end |
| <input type="checkbox"/> 201. Self-drilling element screw, washer with sealing | |

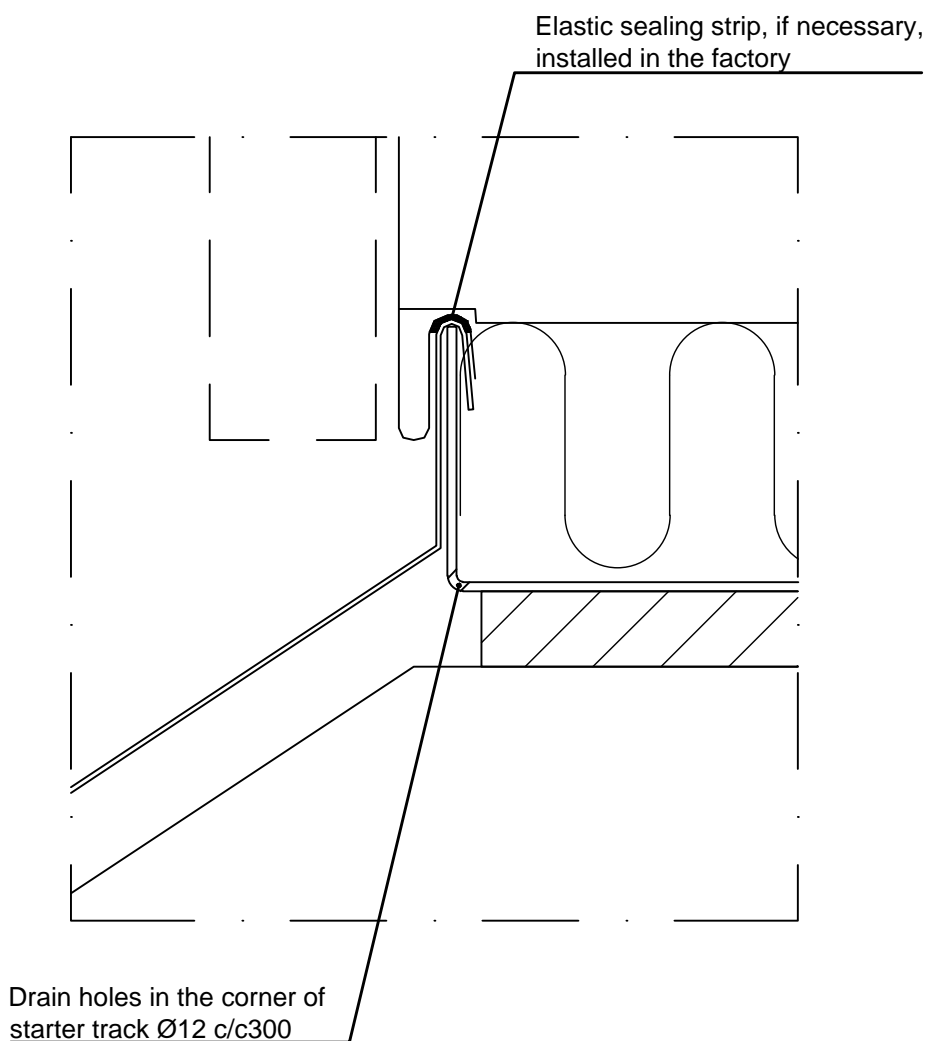
☒ Ruukki's delivery



Contents of drawing

Sandwich panel SPA, horizontal installation
Plinth, detail

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA01-7E-EN
Drawn by Ruukki	Rev.		
Scale 1:1	Building		File nr.

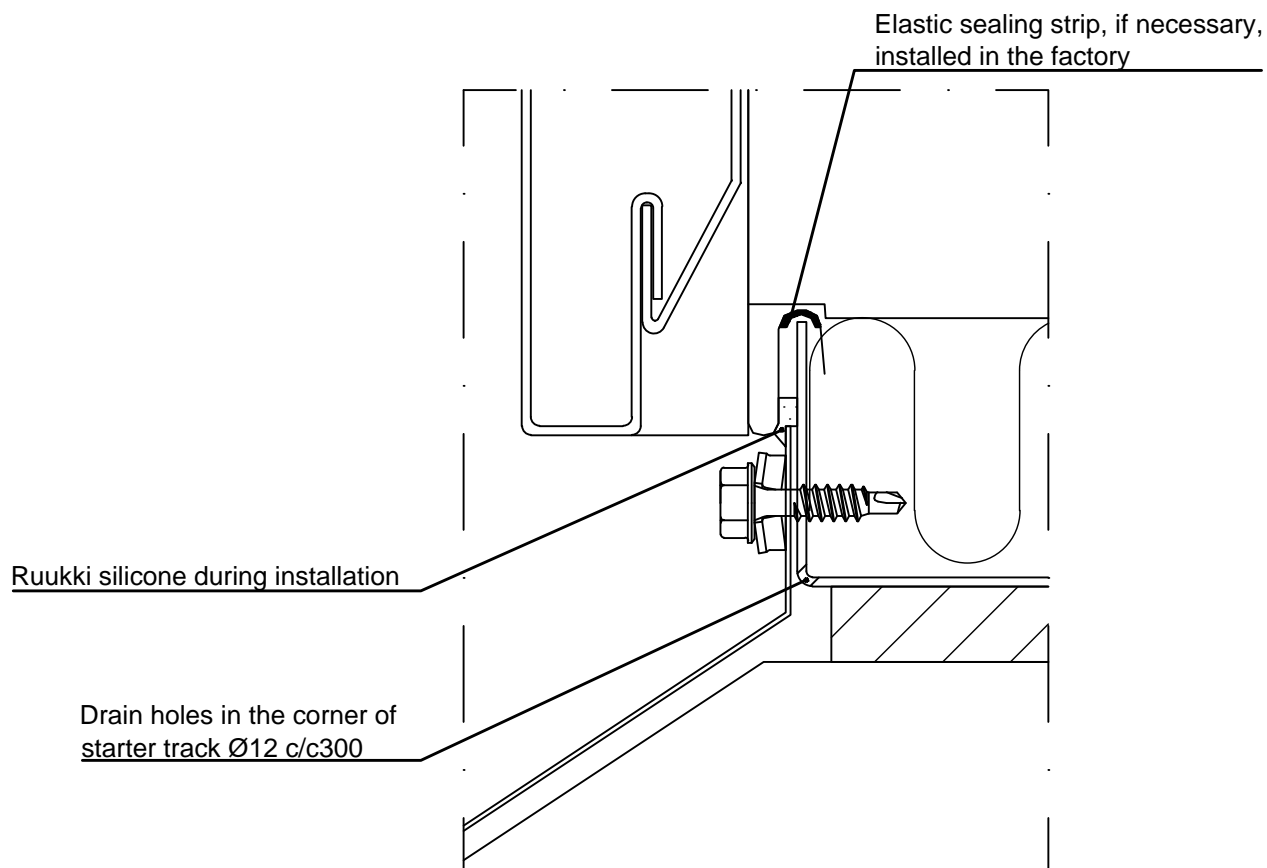




Contents of drawing

Sandwich panel SPA, horizontal installation
Plinth, detail

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA01-8E-EN
Drawn by Ruukki	Rev.		
Scale 1:1	Building		File nr.

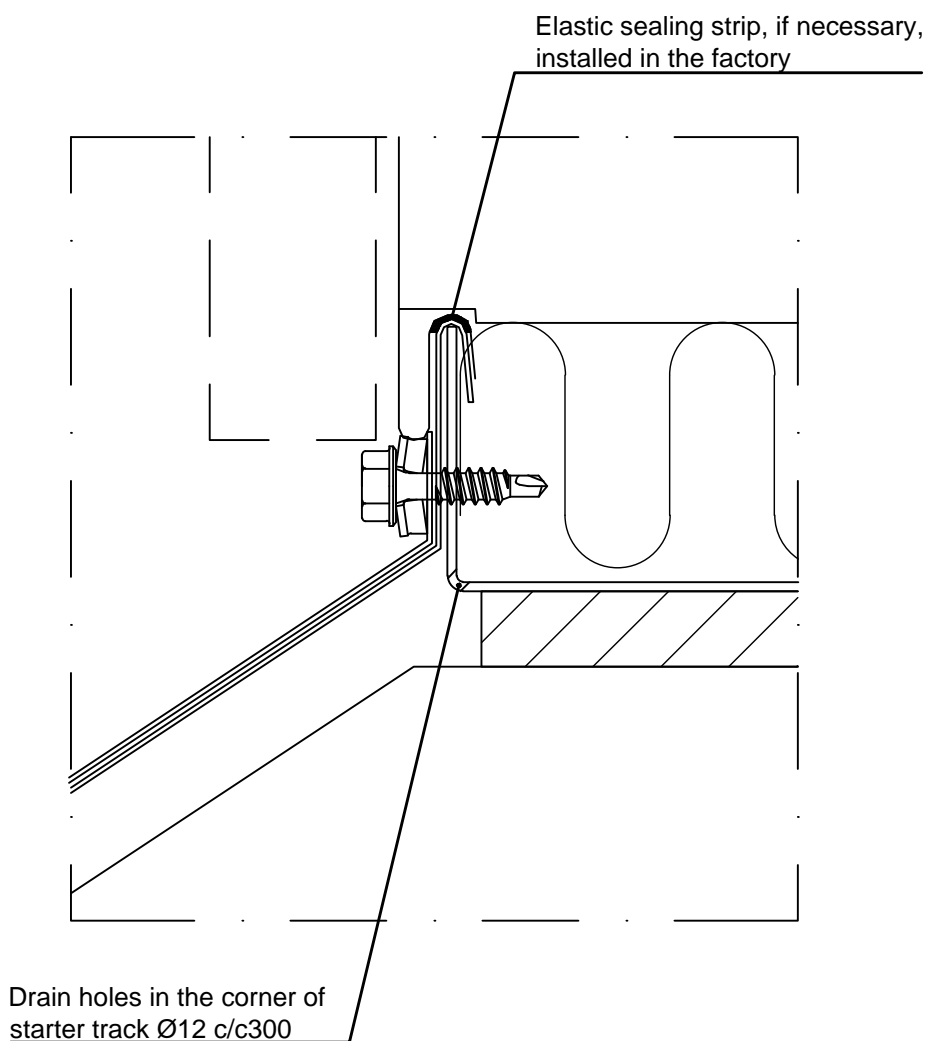




Contents of drawing

Sandwich panel SPA, horizontal installation
Plinth, detail

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA01-9E-EN
Drawn by Ruukki	Rev.		
Scale 1:1	Building	File nr.	

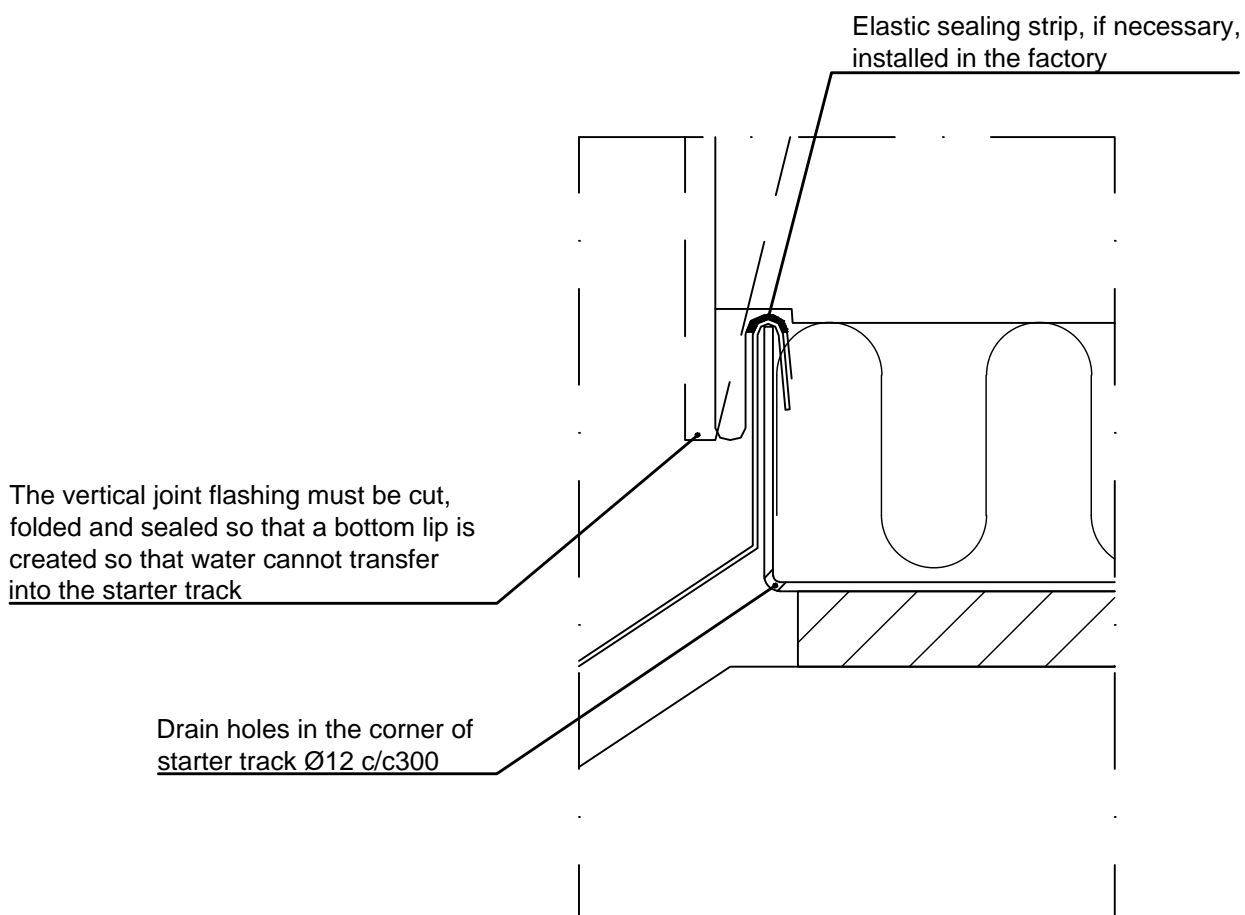




Contents of drawing

Sandwich panel SPA, horizontal installation
Plinth, detail

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA01-10E-EN
Drawn by Ruukki	Rev.		
Scale 1:1	Building		File nr.



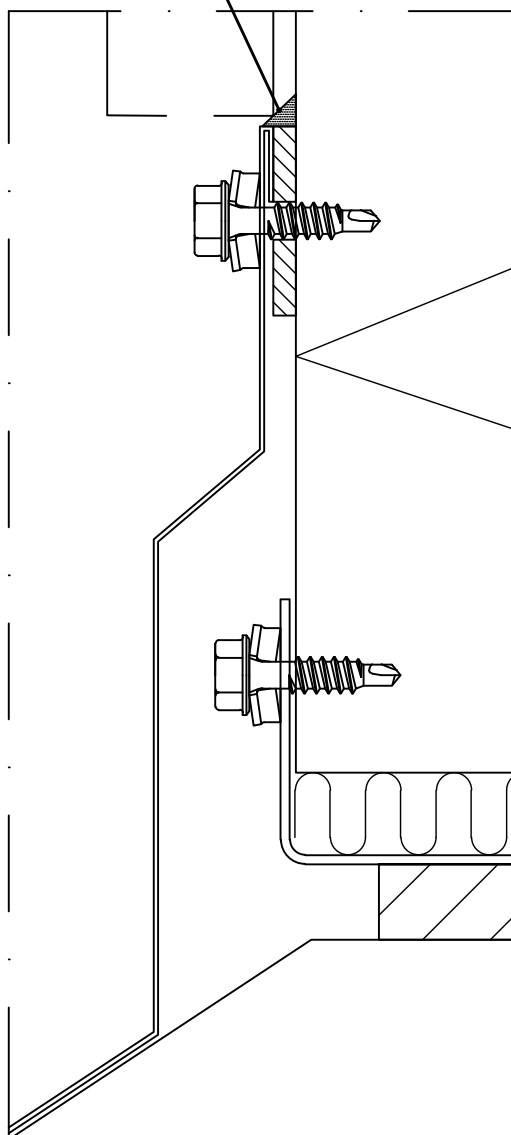


Contents of drawing

Sandwich panel SPA, horizontal installation
Plinth, detail

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA01-11E-EN
Drawn by Ruukki	Rev.		
Scale 1:1	Building	File nr.	

Ruukki silicone after installation

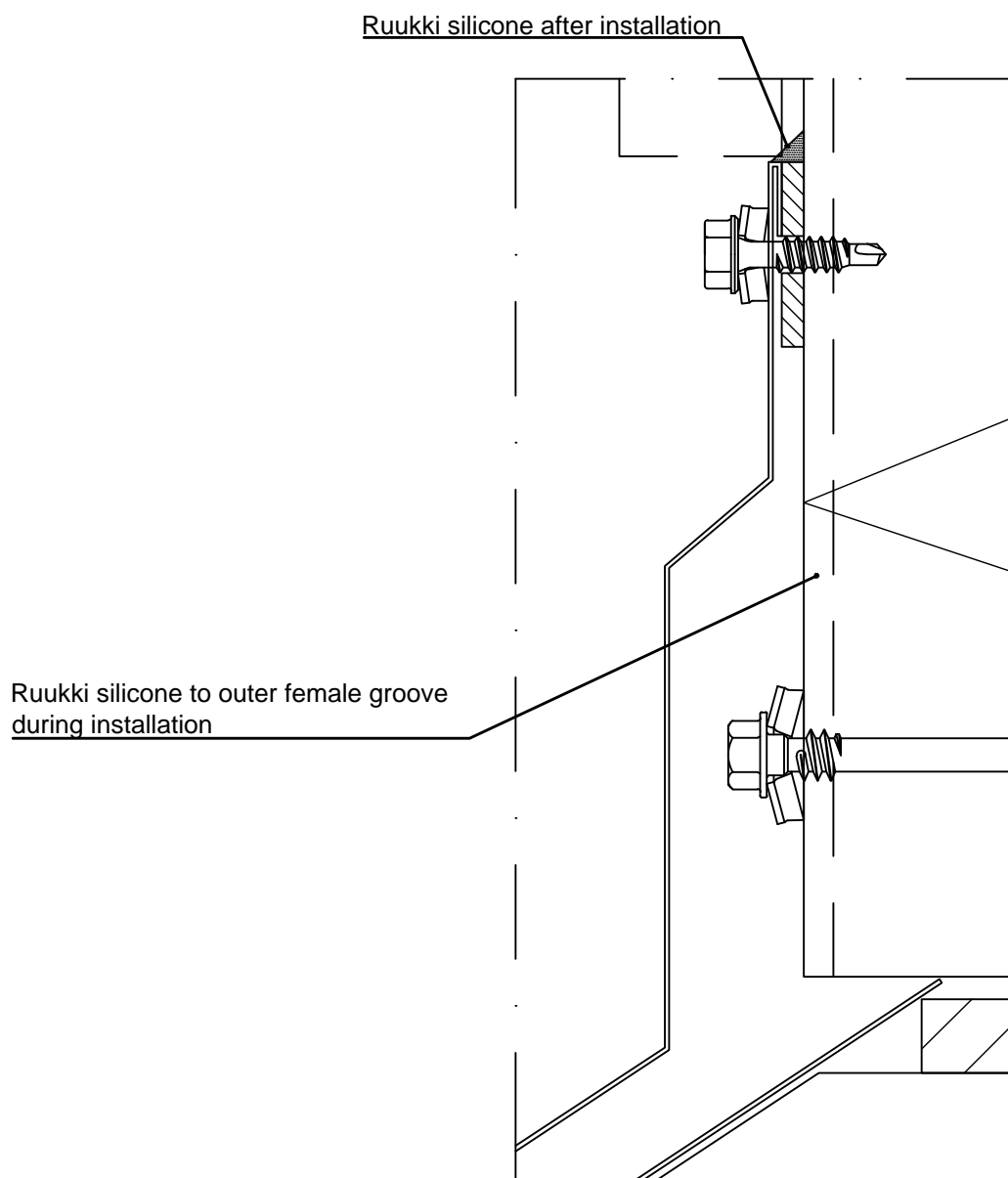




Contents of drawing

Sandwich panel SPA, vertical- and
diagonal installation
Plinth, detail

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA01-12E-EN
Drawn by Ruukki	Rev.		
Scale 1:1	Building	File nr.	

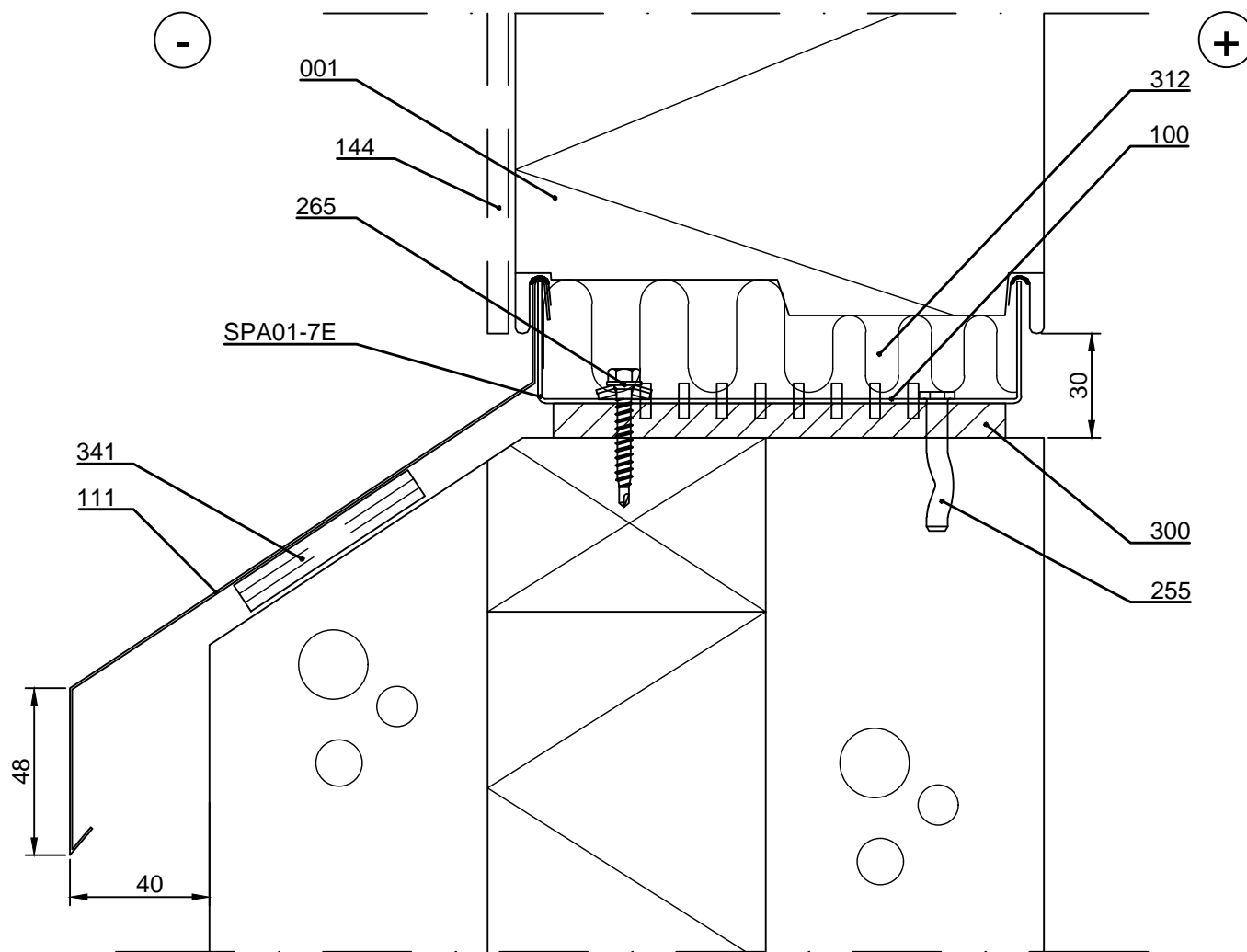




Contents of drawing

Sandwich panel SPA, horizontal installation
Plinth, vertical section
Invisible flashing

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA01-30E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



- ☐ 001. Sandwich panel SPA
- ☐ 100. /EA1U___/ Starter track
- ☐ 111. /EA1P3-___/ Cill flashing (installed simultaneously with elements)
- ☐ 144. /EA1JVI/ Vertical joint flashing, Invisible
- ☐ 255. /S5R48038/ Spike-fastener, concrete c/c600
- ☐ 265. /S3H55042WA4B/ Fastener, wood c/c600
- ☐ 300. /EA3SP___10/ Plinth sealing
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 341. Plywood, if necessary

☒ Ruukki's delivery

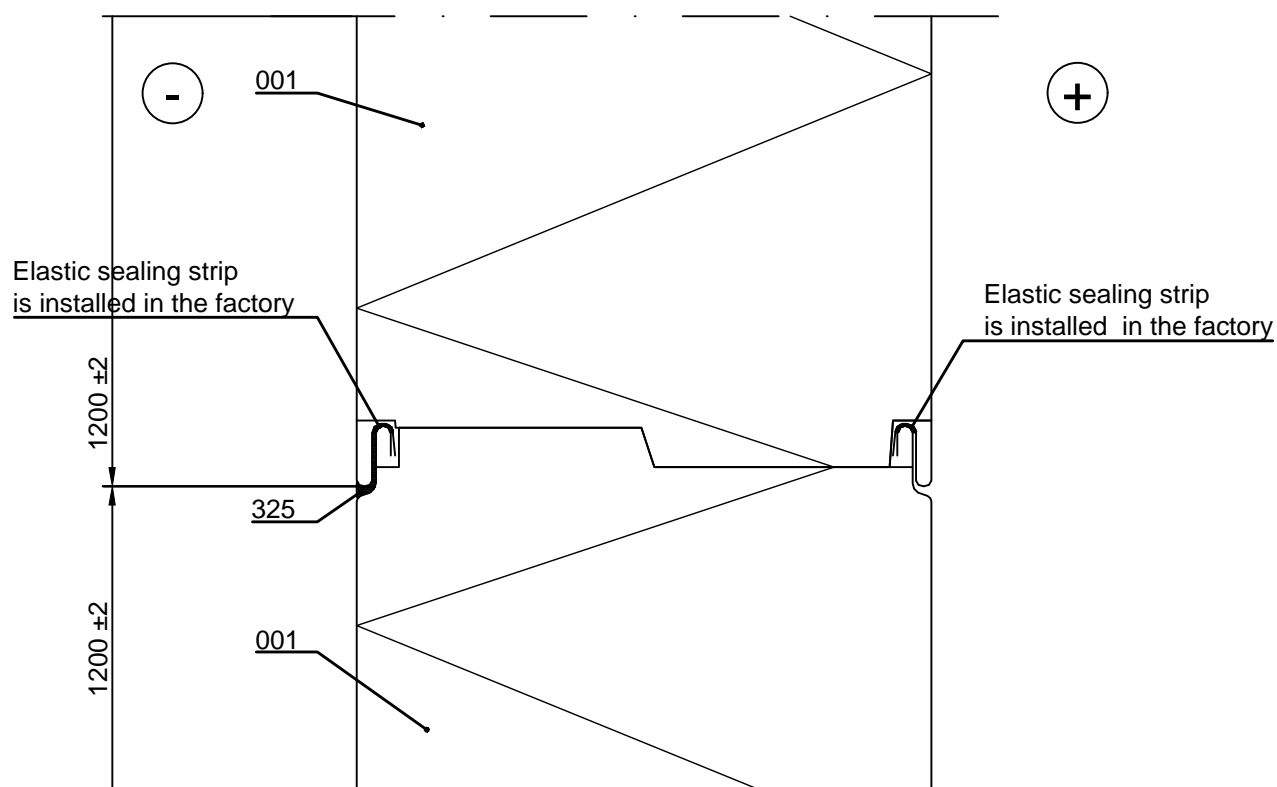
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Contents of drawing

Sandwich panel SPA, horizontal installation
Joint between panels, vertical section

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA02-1E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



- ☐ 001. Sandwich panel SPA
- ☐ 325. Ruukki silicone during installation to outer female groove to length equivalent to vertical joint flashing width and inner female groove in length of sealing
- ☒ Ruukki's delivery

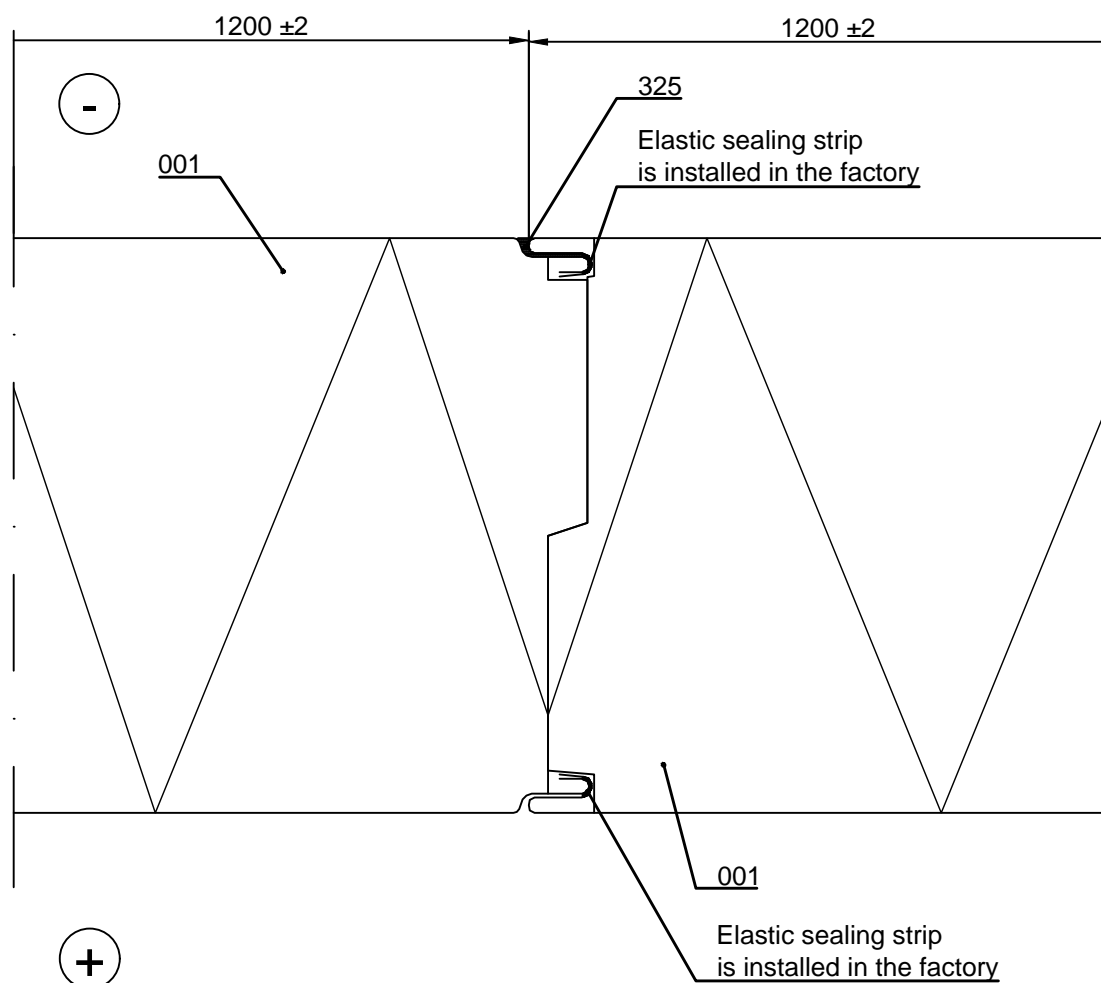
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Contents of drawing

Sandwich panel SPA, vertical- and
diagonal installation
Joint between panels, horizontal section

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA02-2E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



- ☐ 001. Sandwich panel SPA
- ☐ 325. Ruukki silicone during installation
to outer female groove in full length of element and inner female groove 60 mm from panel end
- ☒ Ruukki's delivery

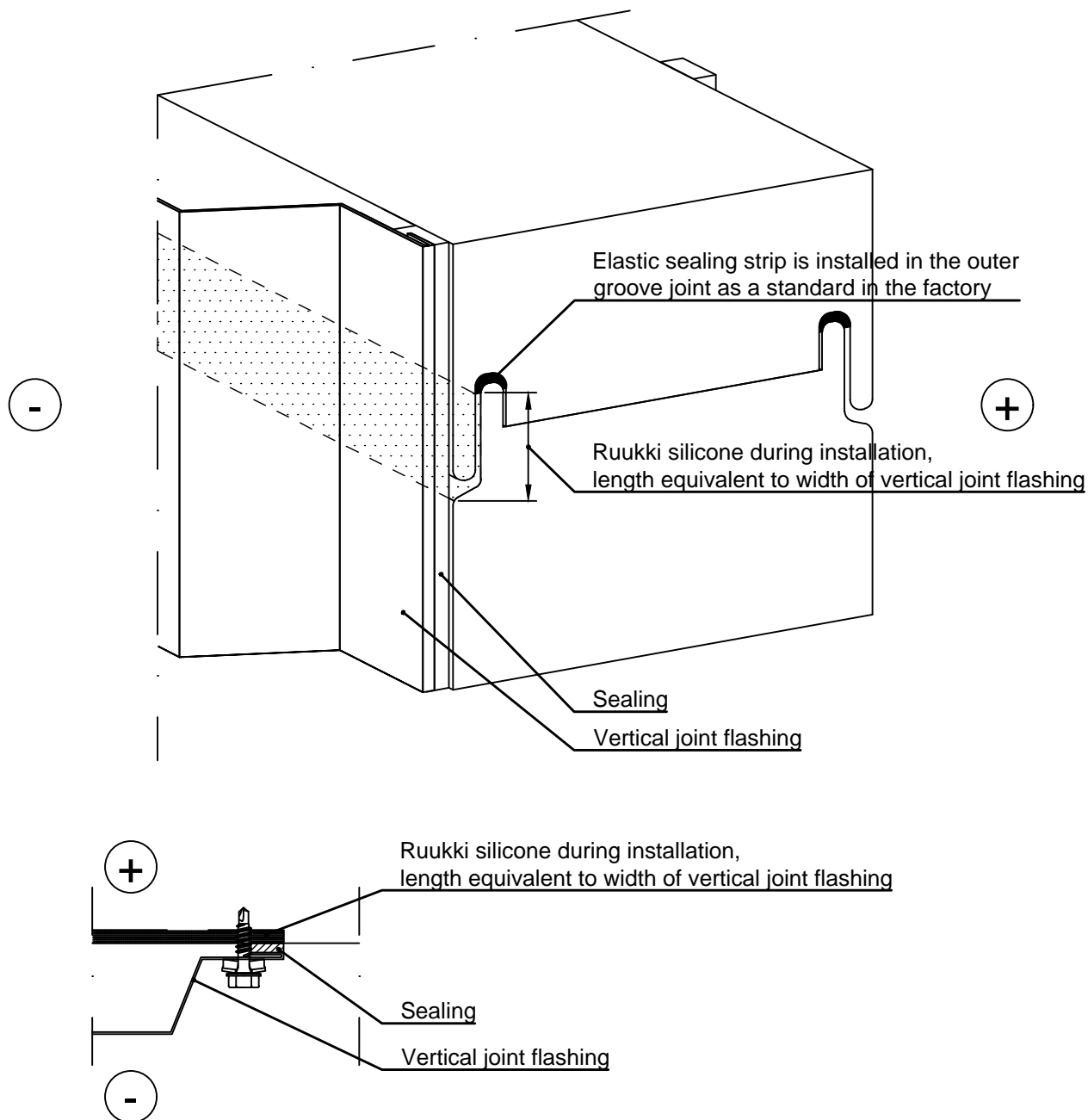
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Contents of drawing

Sandwich panel SPA,
horizontal, vertical- and diagonal installation
Joint between panels

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA02-3E-EN
Drawn by Ruukki	Rev.		
Scale 1:1	Building		File nr.



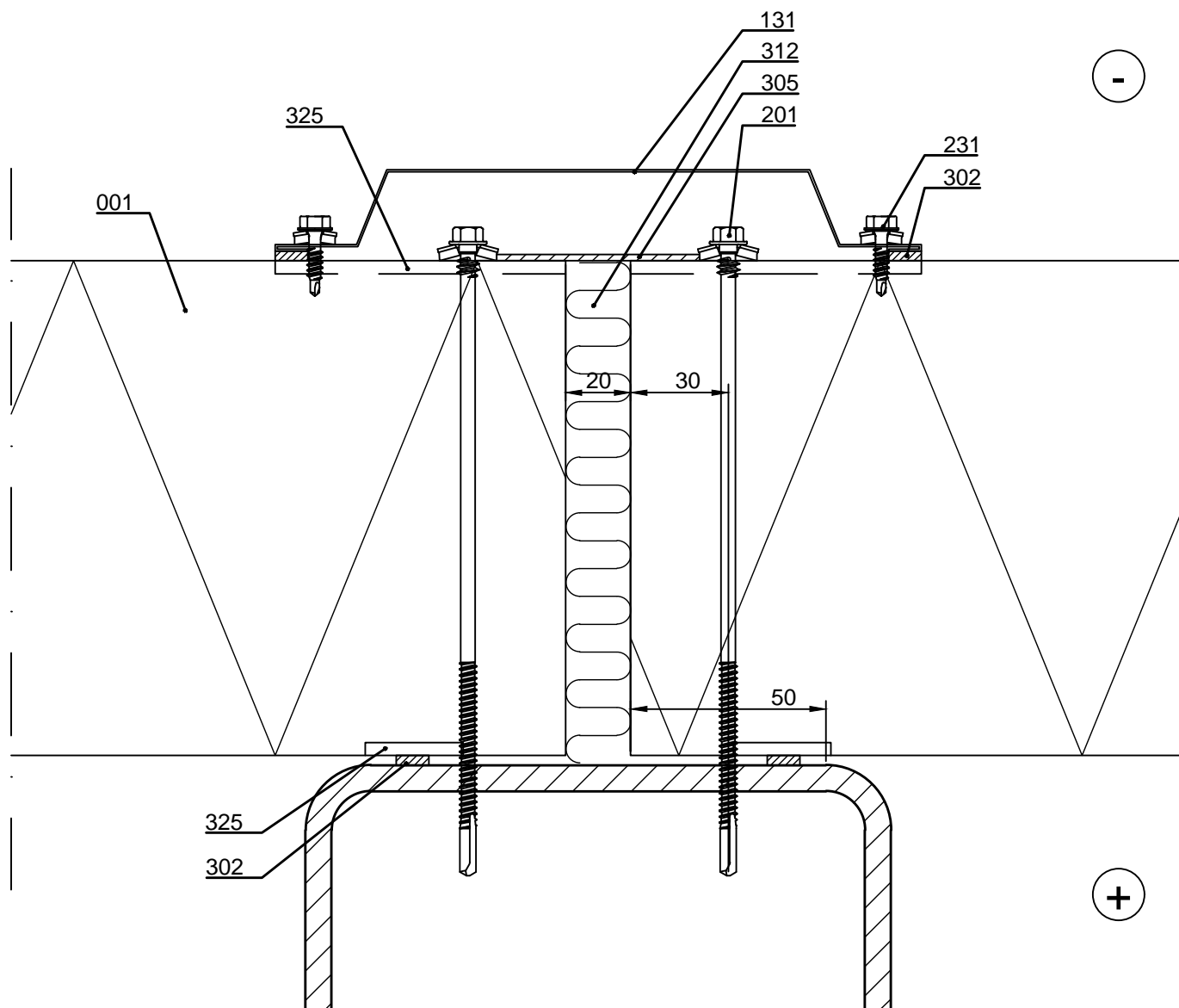
Horizontal installation:

Ruukki silicone during installation to outer female groove. Length equivalent to width of vertical joint flashing. It is important that the groove is completely filled with silicone, i.e. it must be applied before interlocking the joint.

Vertical installation:

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

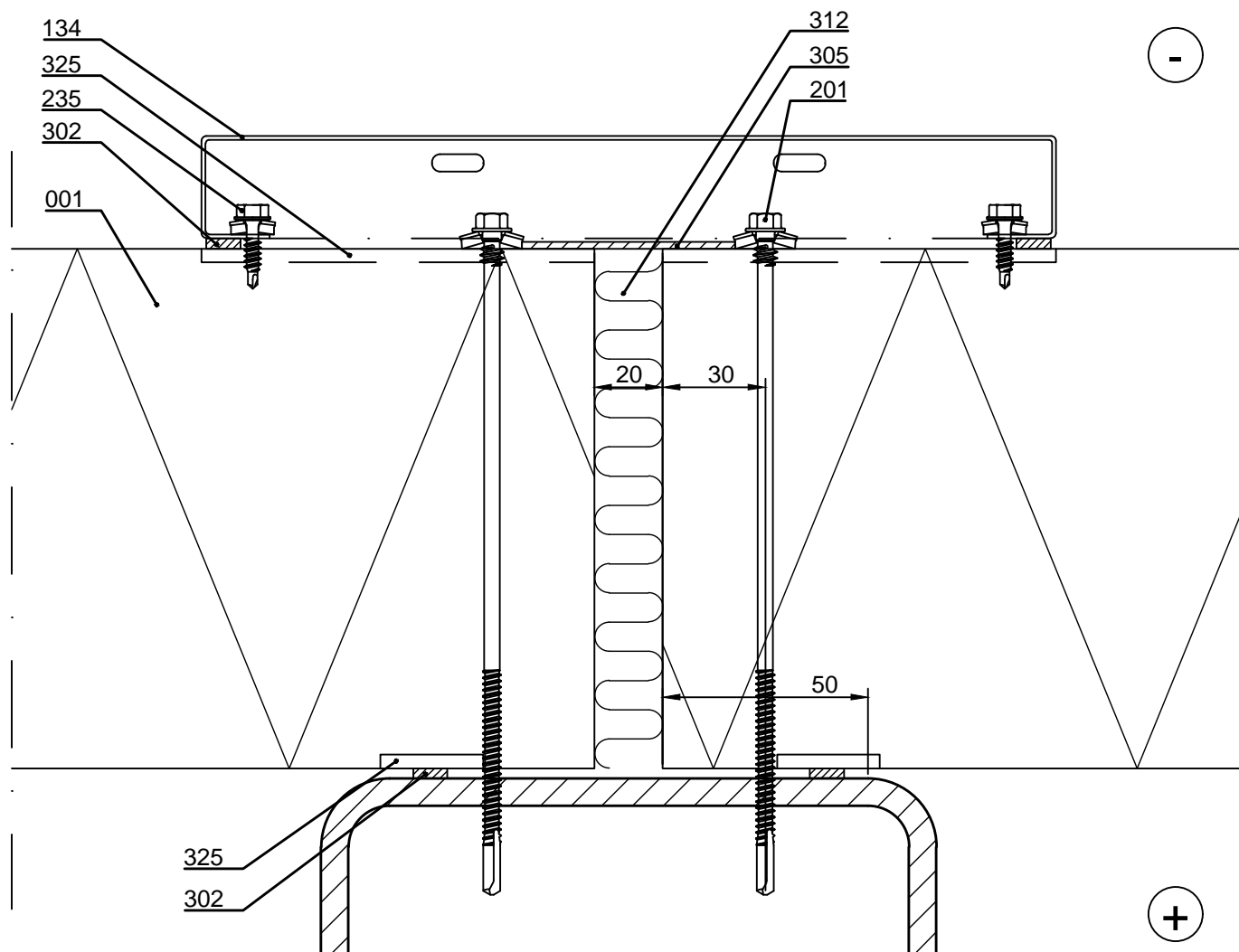
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA03-1E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



- ☐ 001. Sandwich panel SPA
- ☐ 131. /EA1JV1/ Vertical joint flashing
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
- ☐ 305. /EA3JS7525/ Joint sealing
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 325. Ruukki silicone
during installation to outer female groove in length
equivalent to vertical joint flashing width and
inner female groove in length of sealing

☒ Ruukki's delivery

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA03-3E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



- ☐ 001. Sandwich panel SPA
- ☐ 134. /EA1JV10-11/ Vertical joint panel (h = 600 or 1200)
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 235. Joint panel fastener, stainless steel, washer with sealing
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
- ☐ 305. /EA3JS7525/ Joint sealing
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 325. Ruukki silicone
during installation to outer female groove in length
equivalent to vertical joint flashing width and
inner female groove in length of sealing

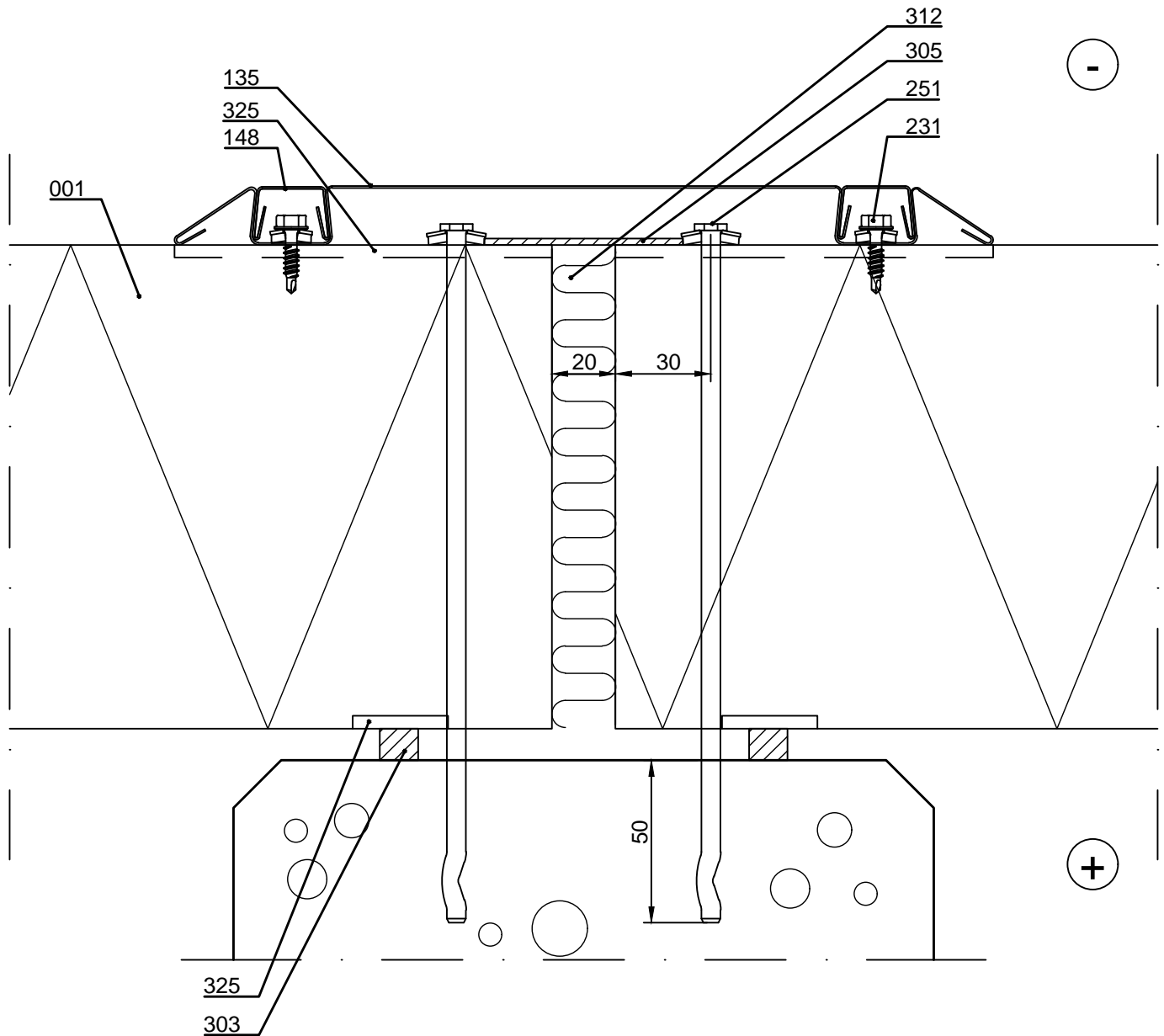
☒ Ruukki's delivery



Contents of drawing

Sandwich panel SPA, horizontal installation
Vertical joint, horizontal section
Concrete column, option 4

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA03-4E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

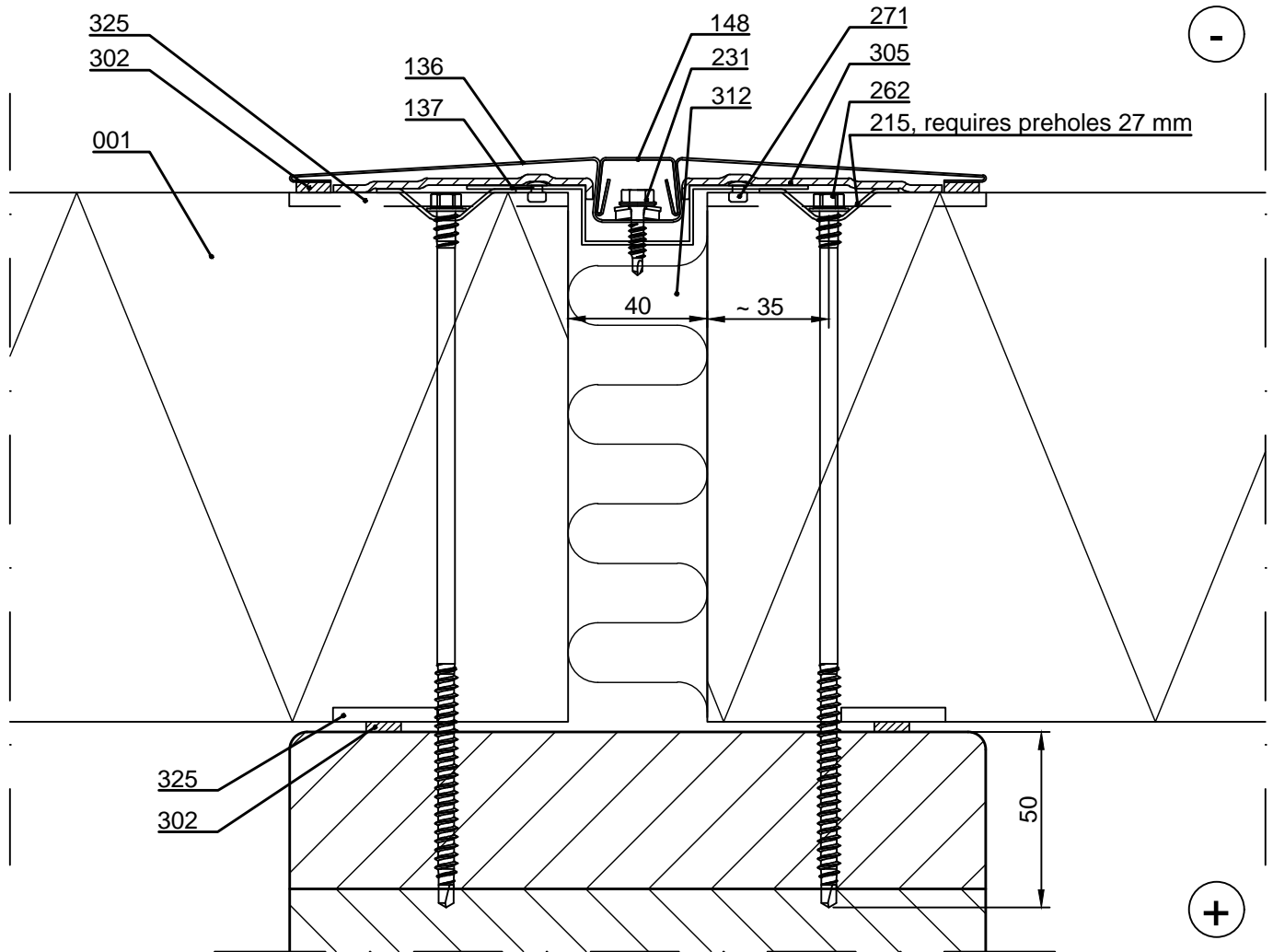


- ☐ 001. Sandwich panel SPA
- ☐ 135. /EA1JV4/ Vertical joint flashing
- ☐ 148. /EA1VCO/ Vertical cover flashing
- ☐ 251. Spike panel fastener, washer with sealing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 303. /EA3SS1210/ Sealant
- ☐ 305. /EA3JS7525/ Joint sealing
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 325. Ruukki silicone during installation to outer female groove in length equivalent to vertical joint flashing width and inner female groove in length of sealing

☒ Ruukki's delivery

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Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA03-5E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

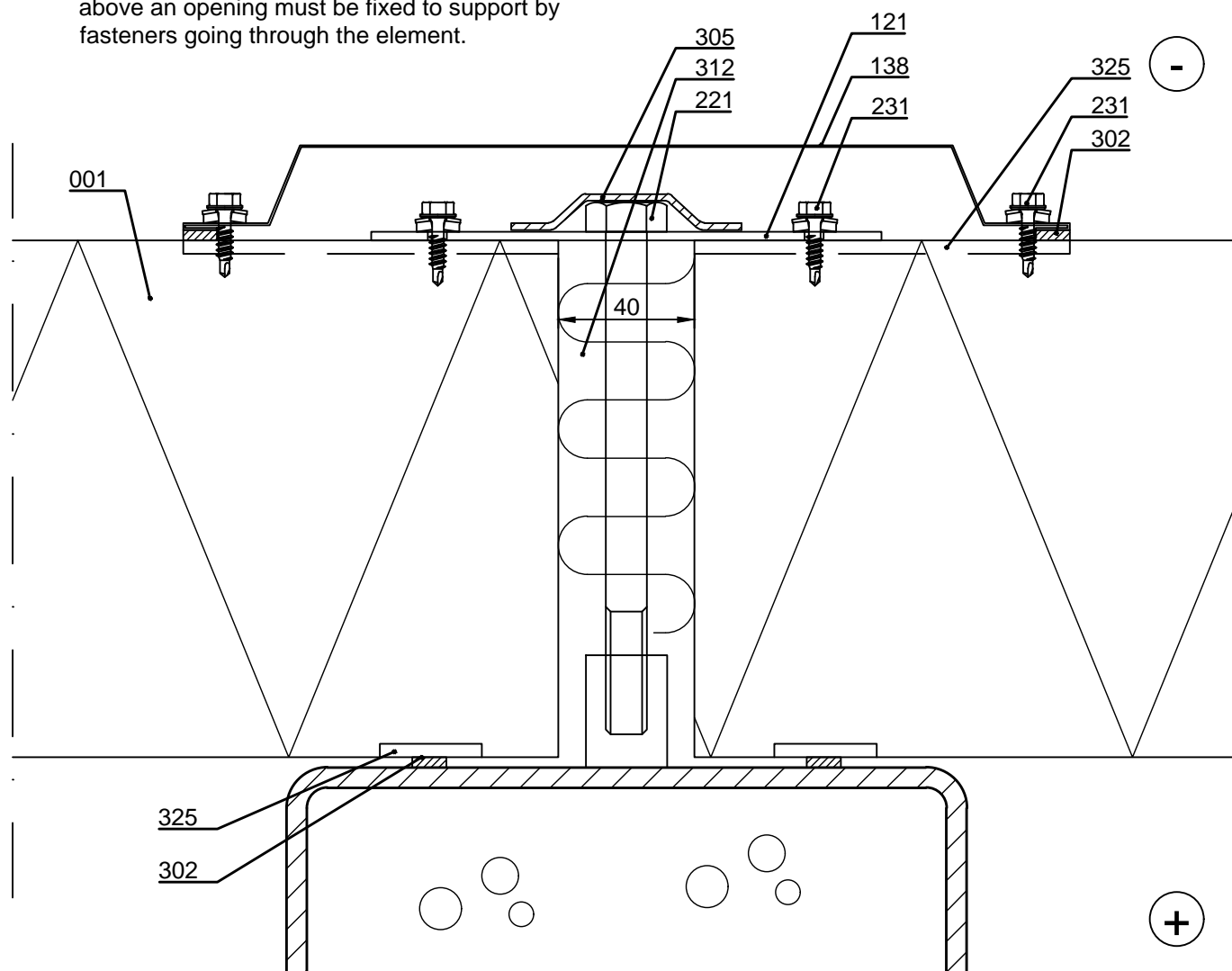


- ☐ 001. Sandwich panel SPA
- ☐ 136. /EA1JV7/ Vertical joint flashing
- ☐ 137. /EA1JVB2/ Vertical joint bottom flashing
- ☐ 148. /EA1VCO/ Vertical cover flashing
- ☐ 215. /EA2W40-910S/ Countersink washer
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 262. Self-drilling element screw to wood, without washer
- ☐ 271. Rivet
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)
- ☐ 305. /EA3JS7525/ Joint sealing
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 325. Ruukki silicone during installation to outer female groove in length equivalent to vertical joint flashing width and inner female groove in length of sealing

☒ Ruukki's delivery

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA03-6E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

Every 5th element vertically and elements above an opening must be fixed to support by fasteners going through the element.



Concrete casting is made in the factory or for a construction site related reason made at site before the element installation.

- | | |
|--|---|
| <input type="checkbox"/> 001. Sandwich panel SPA | <input type="checkbox"/> 305. /EA3JS7525/ Joint sealing |
| <input type="checkbox"/> 121. /EA6FP_/ Fastening plate | <input type="checkbox"/> 312. /EAWS___/ Mineral wool band |
| <input type="checkbox"/> 138. /EA1JV2/ Vertical joint flashing | <input type="checkbox"/> 325. Ruukki silicone |
| <input type="checkbox"/> 221. Internal threaded socket and hex bolt | during installation to outer female groove in length |
| <input type="checkbox"/> 231. Flashing fastener, washer with sealing | equivalent to vertical joint flashing width and |
| <input type="checkbox"/> 302. /EA3SS410/ Sealing strip | inner female groove in length of sealing |
| /EA3SS510/ Sealing band EPDM for flashing | |
| (for demanding climate conditions e.g. coastal areas) | |

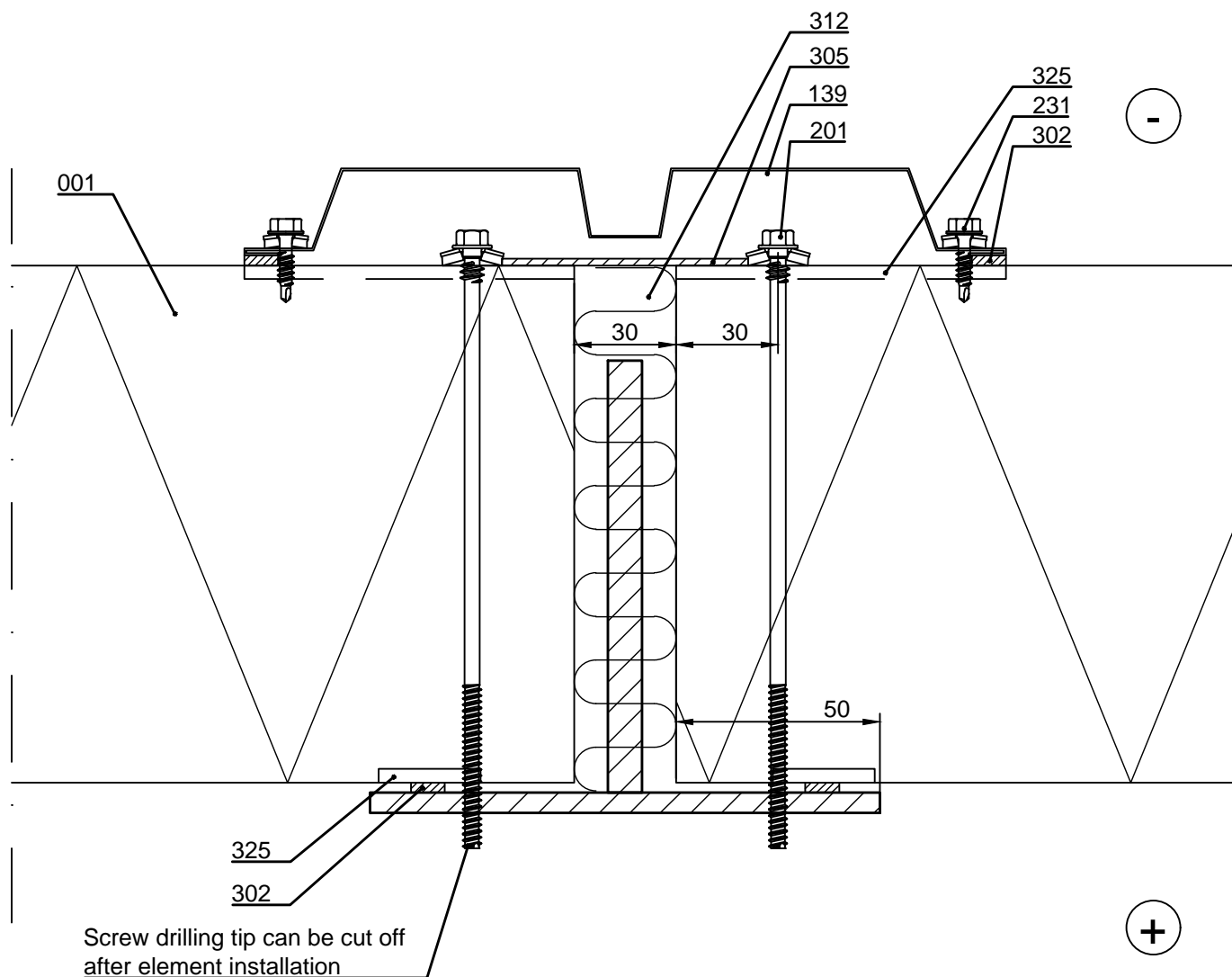
☒ Ruukki's delivery



Contents of drawing

Sandwich panel SPA, horizontal installation
Vertical joint, horizontal section
T-steel, parapet, option 7

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA03-7E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

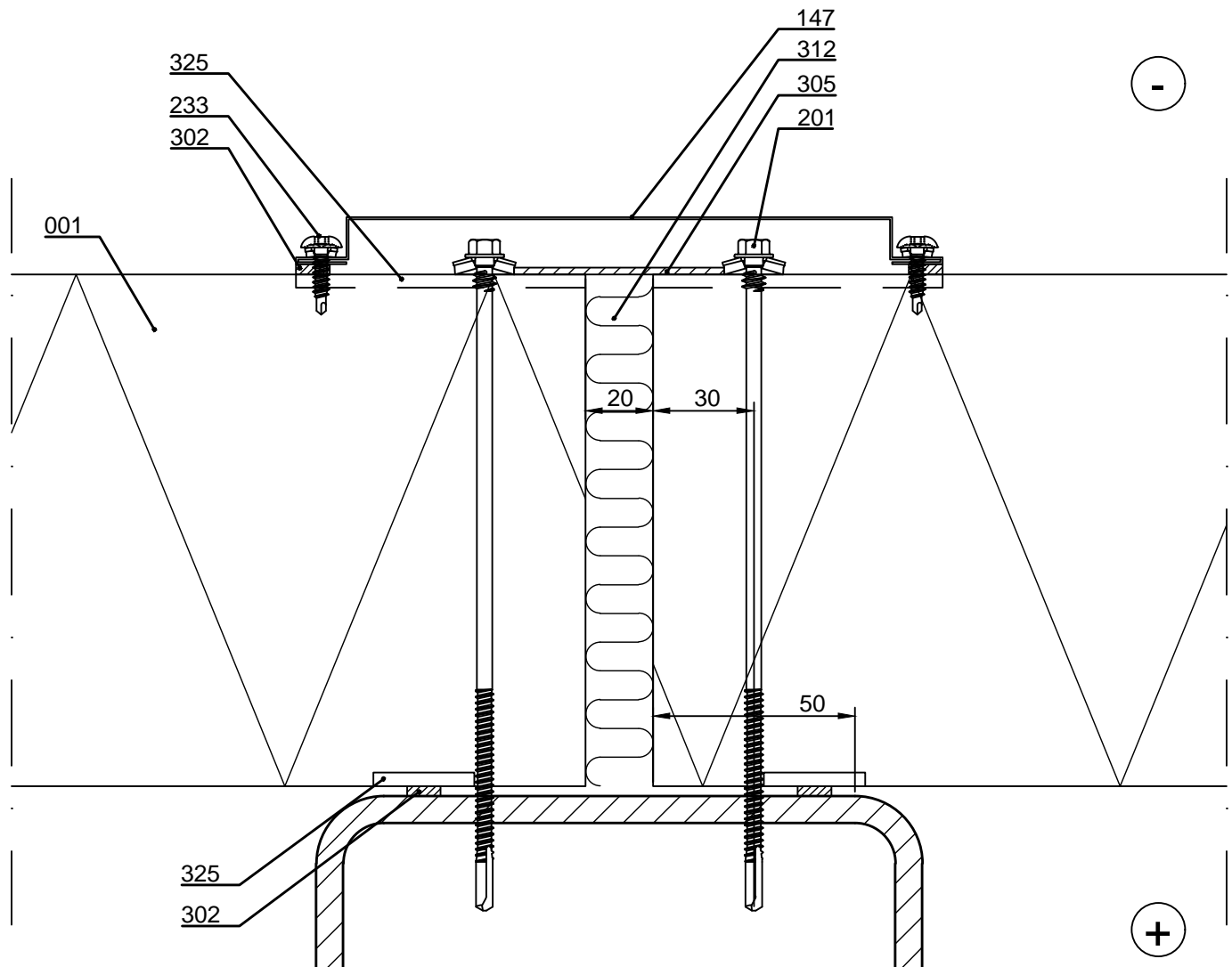


- | | |
|--|---|
| <input type="checkbox"/> 001. Sandwich panel SPA | <input type="checkbox"/> 305. /EA3JS7525/ Joint sealing |
| <input type="checkbox"/> 139. /EA1JV3/ Vertical joint flashing | <input type="checkbox"/> 312. /EAWS___/ Mineral wool band |
| <input type="checkbox"/> 201. Self-drilling element screw, washer with sealing | <input type="checkbox"/> 325. Ruukki silicone |
| <input type="checkbox"/> 231. Flashing fastener, washer with sealing | during installation to outer female groove in length |
| <input type="checkbox"/> 302. /EA3SS410/ Sealing strip | equivalent to vertical joint flashing width and |
| /EA3SS510/ Sealing band EPDM for flashing | inner female groove in length of sealing |
| (for demanding climate conditions e.g. coastal areas) | |

☒ Ruukki's delivery

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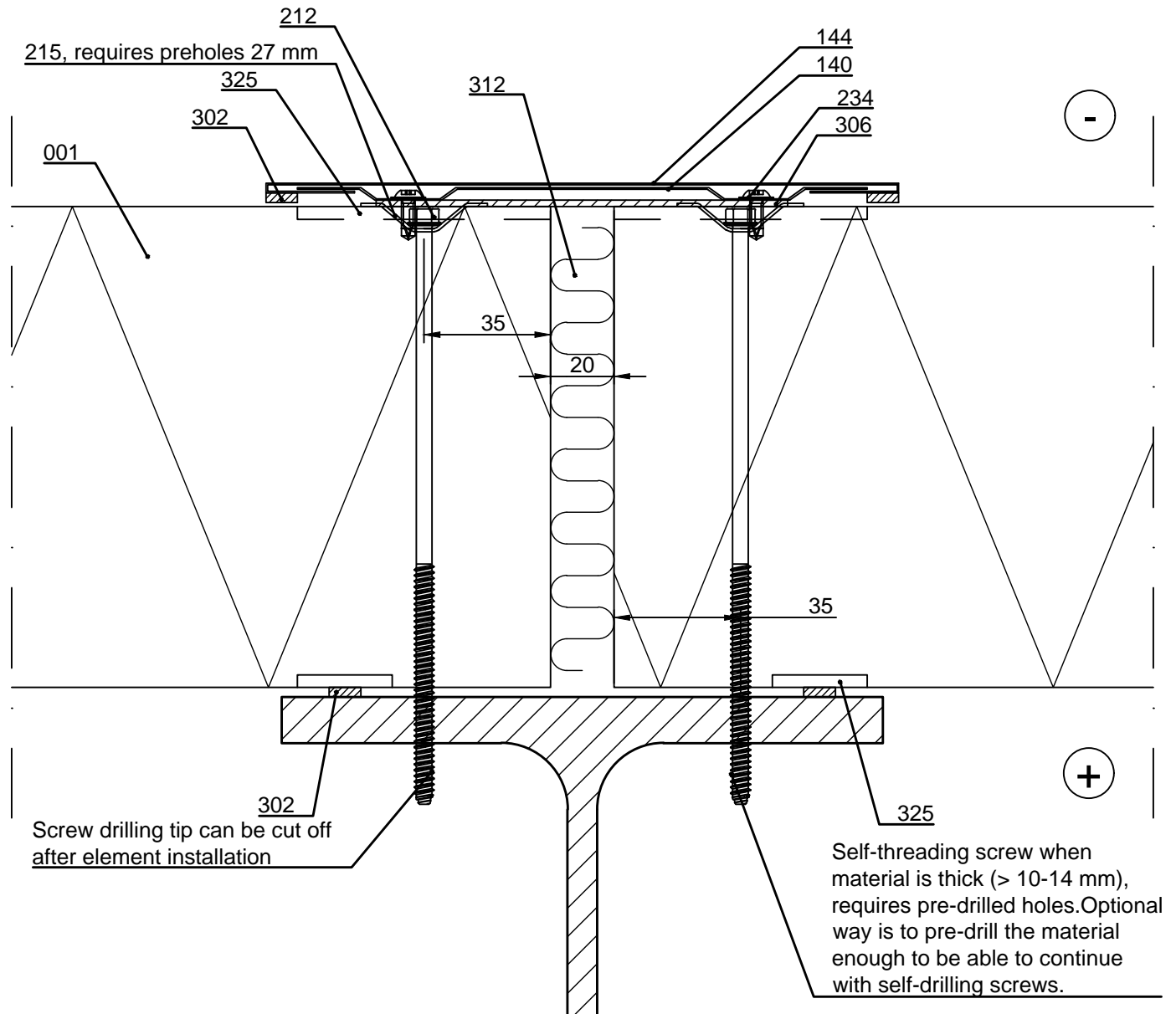
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA03-8E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



- | | |
|--|---|
| <input type="checkbox"/> 001. Sandwich panel SPA | <input type="checkbox"/> 305. /EA3JS7525/ Joint sealing |
| <input type="checkbox"/> 147. /EA1JVM/ Vertical joint flashing module | <input type="checkbox"/> 312. /EAWS___/ Mineral wool band |
| <input type="checkbox"/> 201. Self-drilling element screw, washer with sealing | <input type="checkbox"/> 325. Ruukki silicone |
| <input type="checkbox"/> 233. /S1T48020L02A0RR___/ Flashing fastener | during installation to outer female groove in length |
| <input type="checkbox"/> 302. /EA3SS410/ Sealing strip | equivalent to vertical joint flashing width and |
| /EA3SS510/ Sealing band EPDM for flashing | inner female groove in length of sealing |
| (for demanding climate conditions e.g. coastal areas) | |

☒ Ruukki's delivery

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA03-30E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

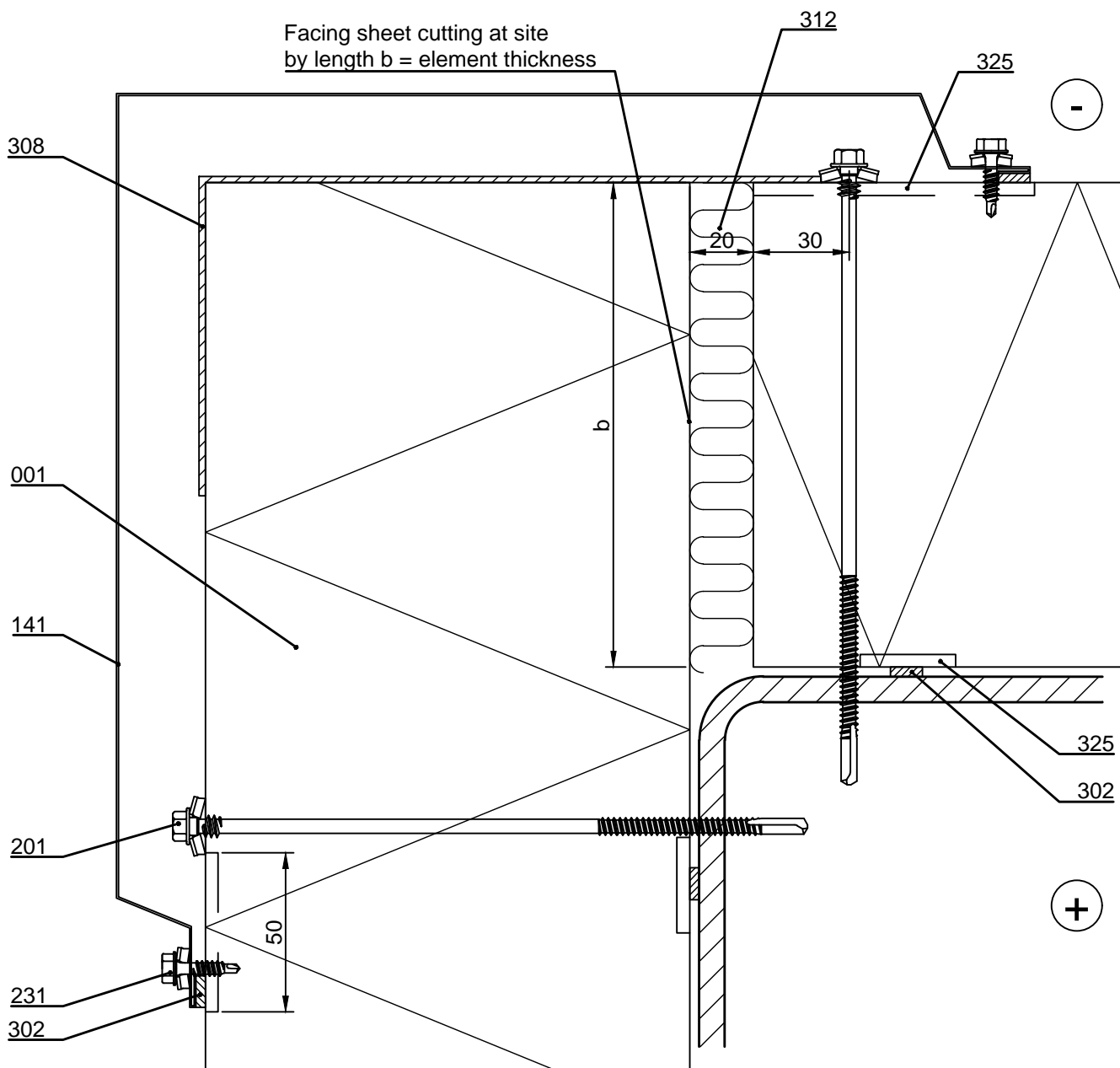


- ☐ 001. Sandwich panel SPA
- ☐ 140. /EA1JVB4/ Vertical bottom flashing Invisible
- ☐ 144. /EA1JVI/ Vertical joint flashing Invisible
- ☐ 212. Self-threading element screw, without washer
- ☐ 215. /EA2W40-910S/ Countersink washer
- ☐ 234. /S1E42013GE/ Flat head flashing fastener
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)

- ☐ 306. /EA3JS15025/ Joint sealing
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 325. Ruukki silicone
during installation to outer female groove in length
equivalent to vertical joint flashing width and
inner female groove in length of sealing

☒ Ruukki's delivery

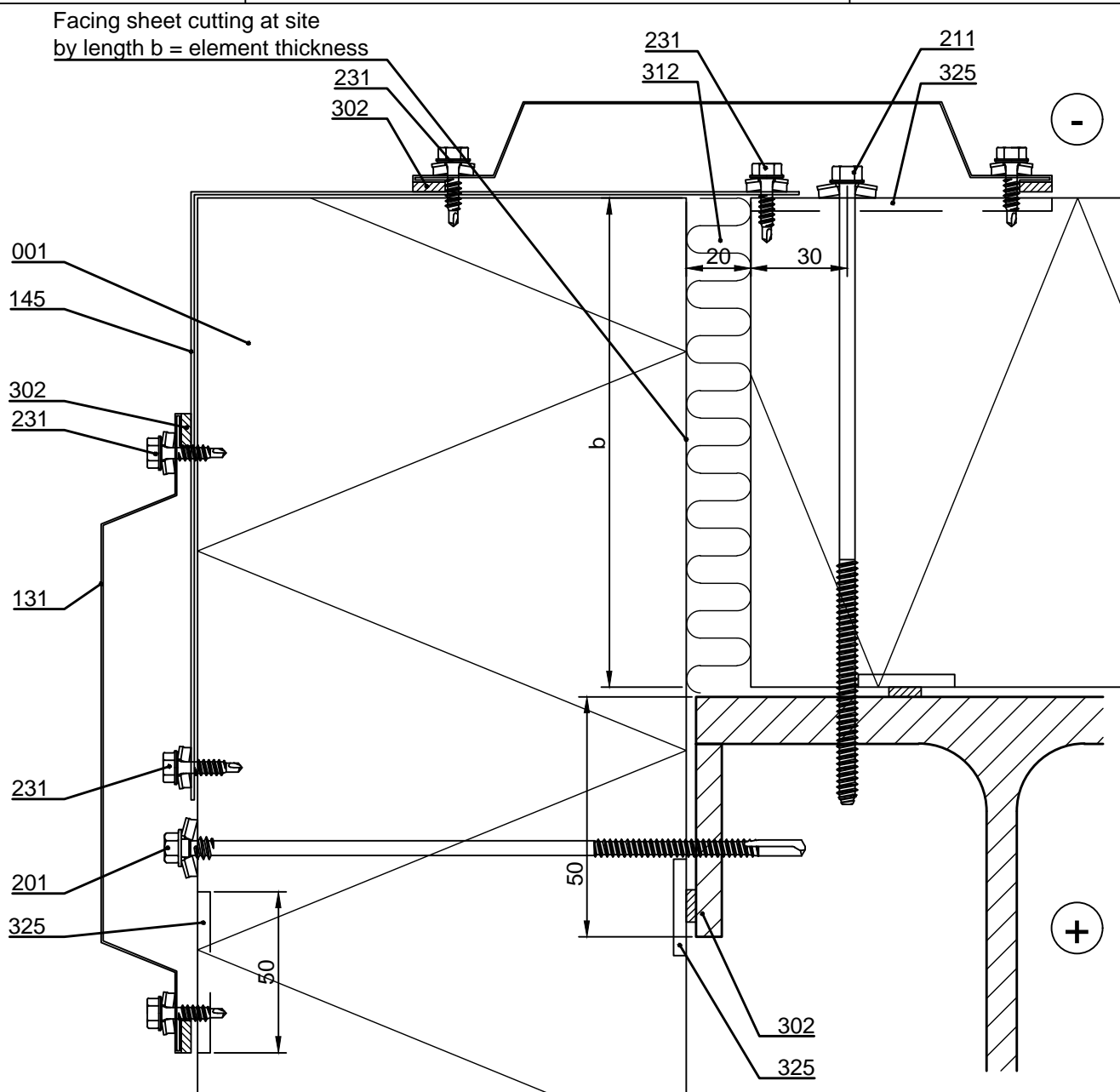
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA04-1E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



- ☐ 001. Sandwich panel SPA
- ☐ 141. /EA1EC1-3/ External corner flashing, recommended element thickness 150 mm
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 302. /EA3SS410/ Sealing strip /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)
- ☐ 308. /EA3JSC30025/ Joint sealing corner
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 325. Ruukki silicone during installation to outer female groove in length equivalent to vertical joint flashing width and inner female groove in length of sealing

☒ Ruukki's delivery

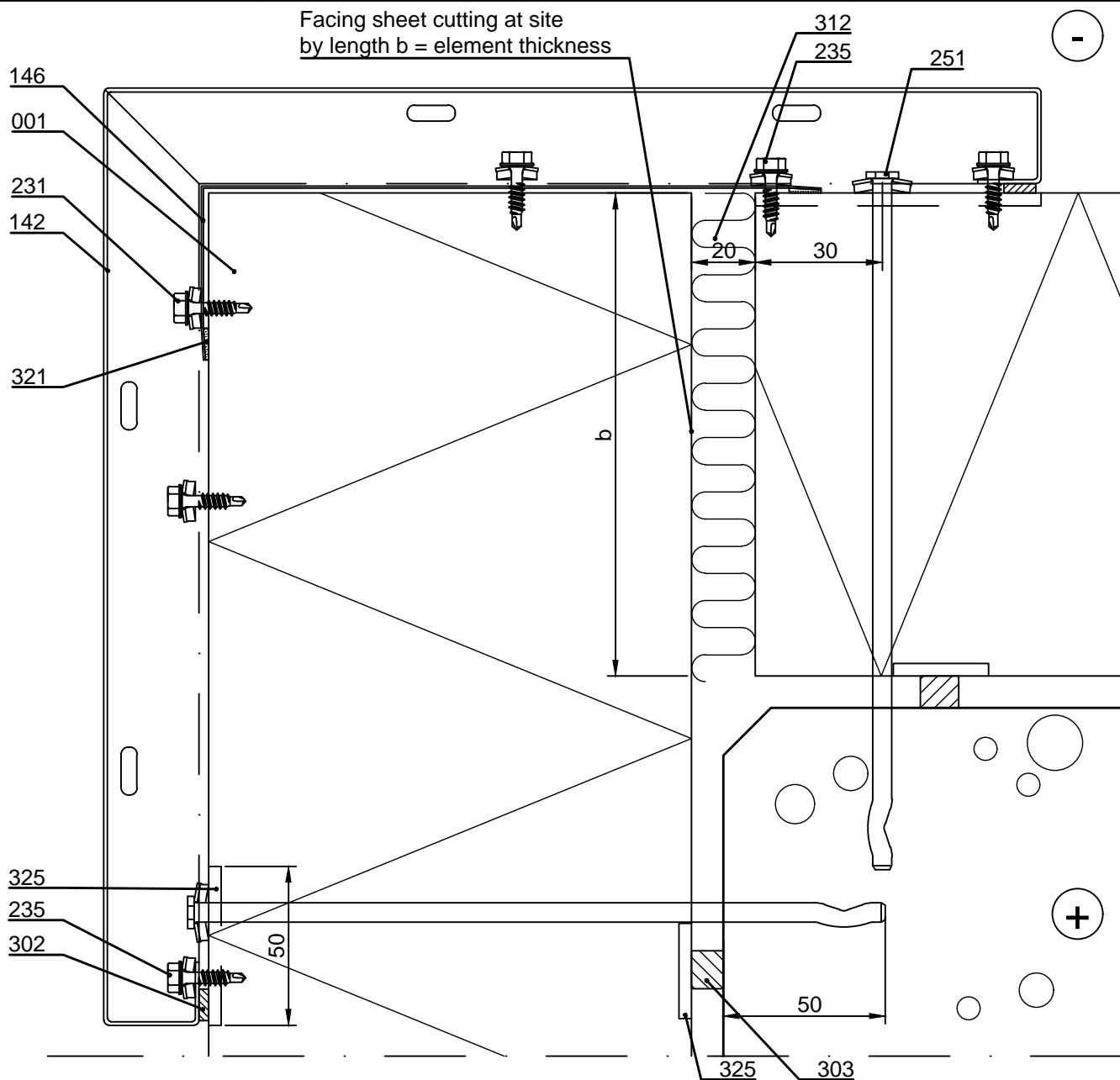
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA04-2E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



- ☐ 001. Sandwich panel SPA
- ☐ 131. /EA1JV1/ Vertical joint flashing
- ☐ 145. /EA1EC10-___/ External corner flashing, (limited range of colours)
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 211. Self-threading element screw, washer with sealing
- ☐ 231. Flashing fastener, washer with sealing
- ☒ Ruukki's delivery
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 325. Ruukki silicone during installation to outer female groove in length equivalent to vertical joint flashing width and inner female groove in length of sealing

Sandwich panel SPA, horizontal installation
External corner, horizontal section
Concrete column, option 3

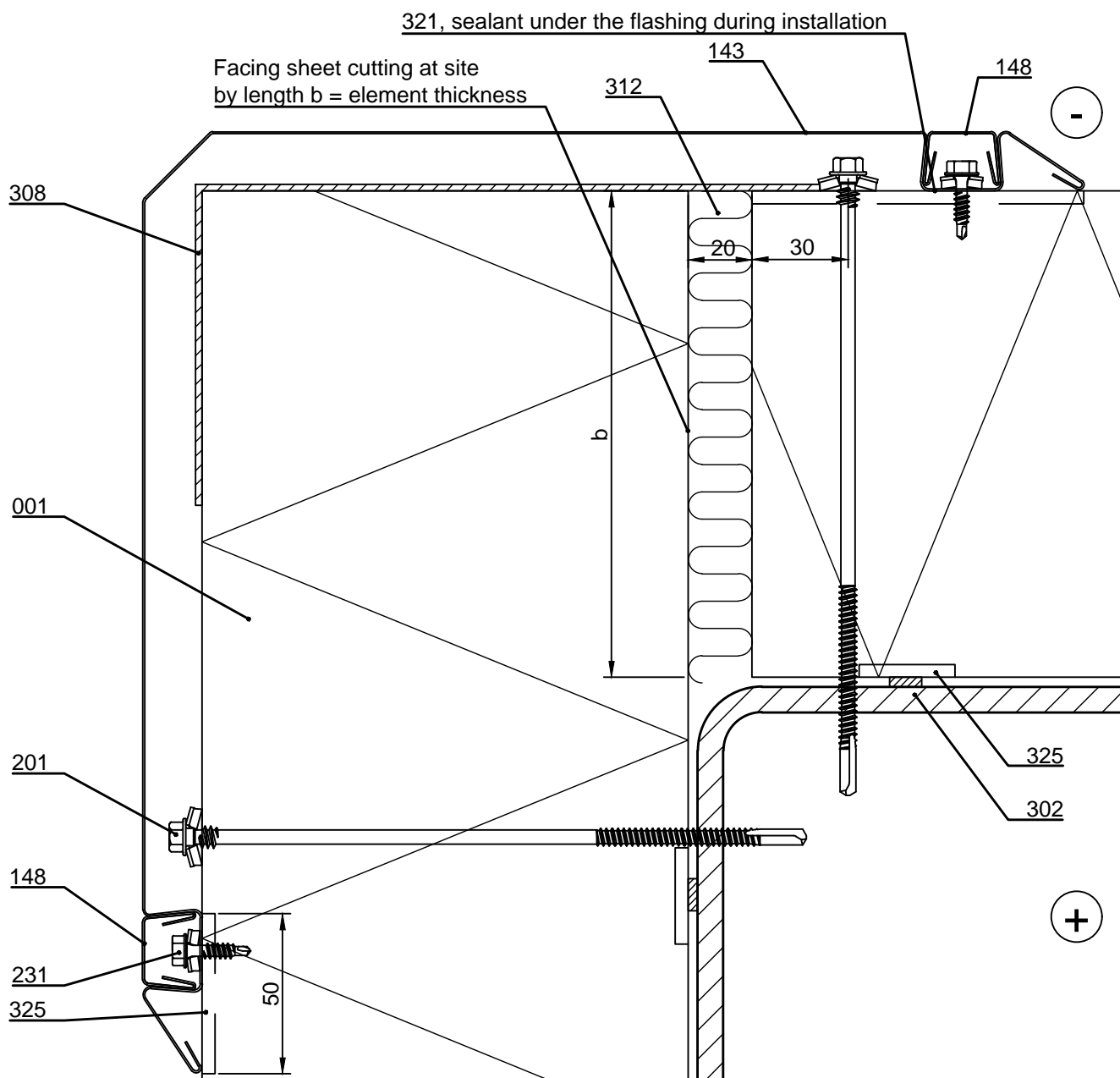
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA04-3E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



- ☐ 001. Sandwich panel SPA
- ☐ 142. /EA1EC11-14/ External corner panel
- ☐ 146. /EA1EC9-___/ External corner flashing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 235. Joint panel fastener, stainless steel, washer with sealing
- ☐ 251. Spike-elementtikiinnike betoniin, tiiv. aluslevy
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
- ☐ 303. /EA3SS1210/ Sealing
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 321. Ruukki silicone
- ☐ 325. Ruukki silicone
during installation to outer female groove in length
equivalent to vertical joint flashing width and
inner female groove in length of sealing

☒ Ruukki's delivery

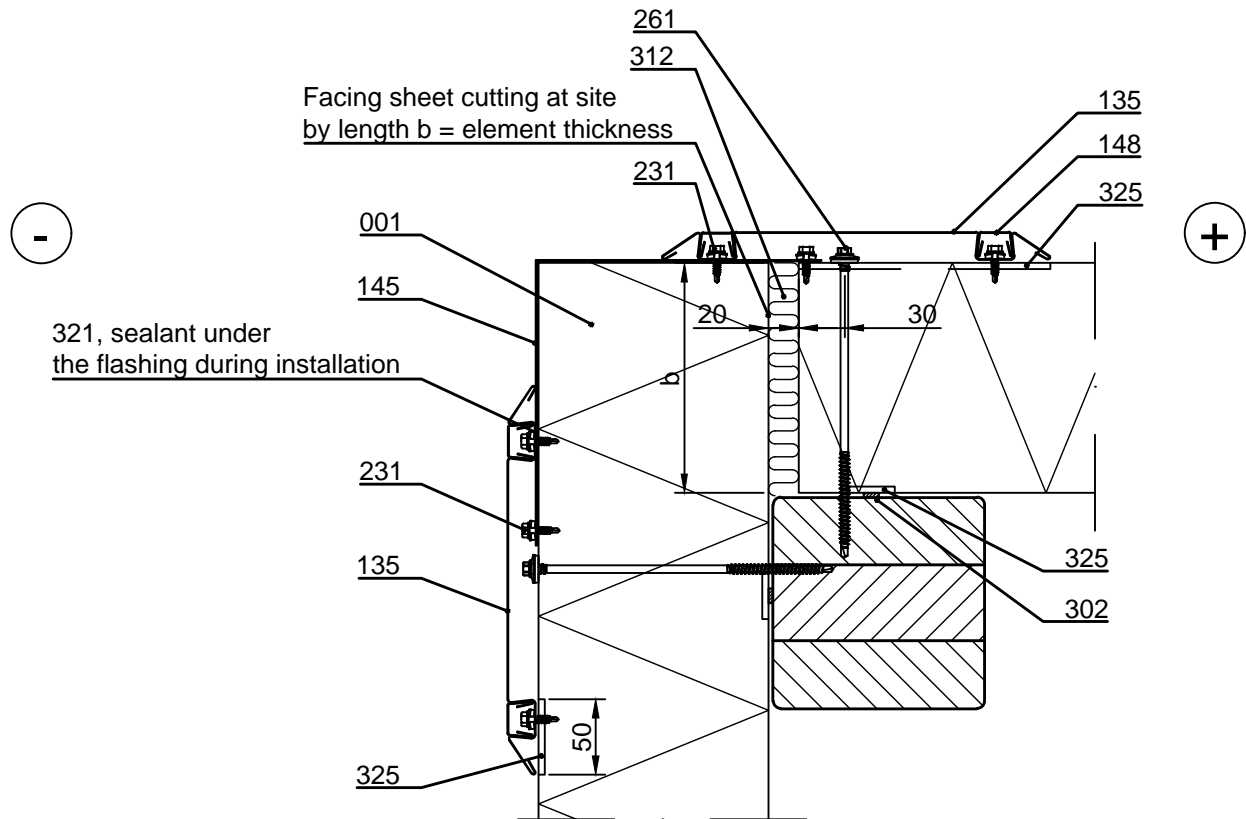
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA04-4E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



- ☐ 001. Sandwich panel SPA
- ☐ 143. /EA1EC5/ External corner flashing, recommended element thickness 150 mm
- ☐ 148. /EA1VCO/ Vertical cover flashing
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 302. /EA3SS410/ Sealing strip /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)
- ☐ 308. /EA3JSC30025/ Joint sealing corner
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 321. Ruukki silicone
- ☐ 325. Ruukki silicone during installation to outer female groove in length equivalent to vertical joint flashing width and inner female groove in length of sealing

☒ Ruukki's delivery

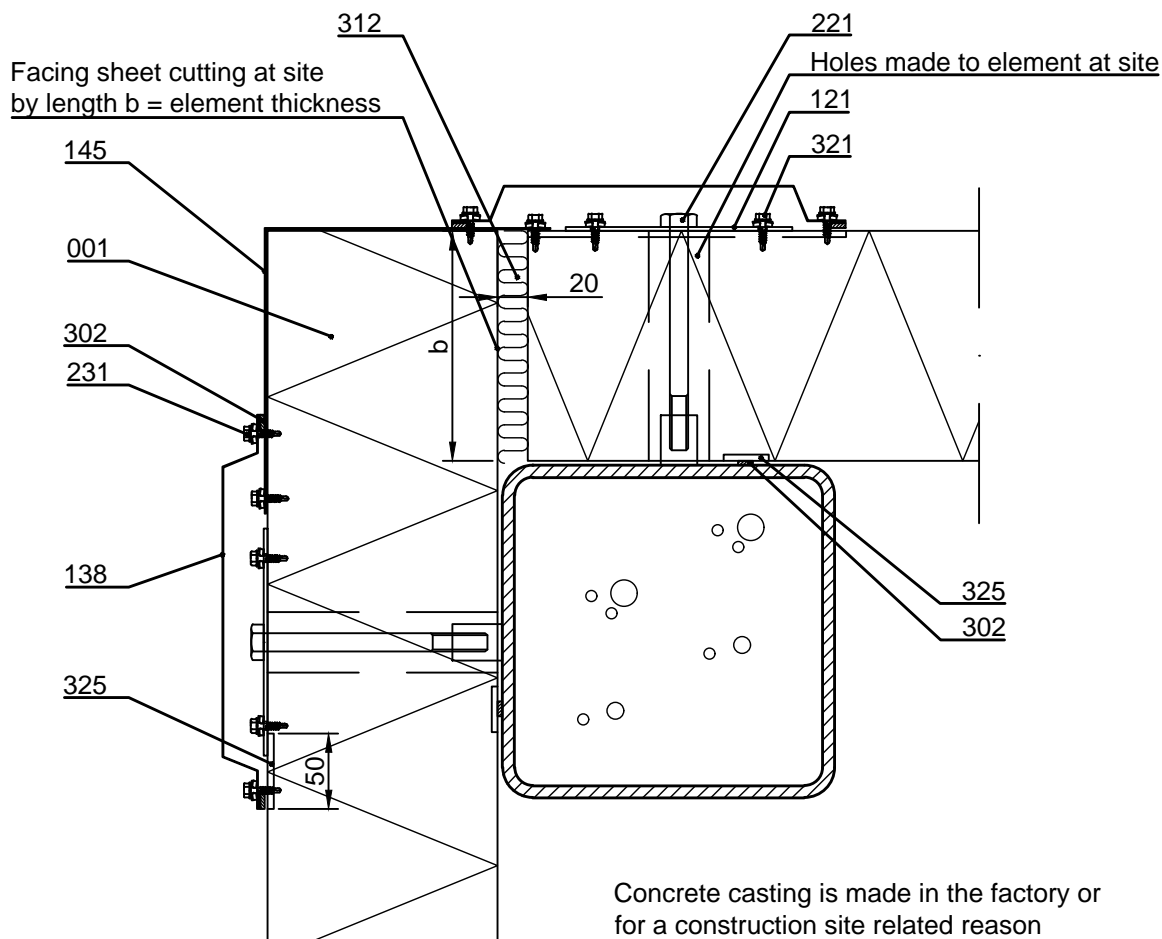
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA04-5E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



- ☐ 001. Sandwich panel SPA
- ☐ 135. /EA1JV4/ Vertical joint flashing
- ☐ 145. /EA1C10-___/ Vertical joint flashing, t = 1 mm / 1.2 mm (limited range of colours)
- ☐ 148. /EA1VCO/ Vertical cover flashing
- ☐ 261. Self-drilling element screw to wood, washer with sealing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 321. Ruukki silicone
- ☐ 325. Ruukki silicone
during installation to outer female groove in length equivalent to vertical joint flashing width
and inner female groove in length of sealing

☒ Ruukki's delivery

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA04-6E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



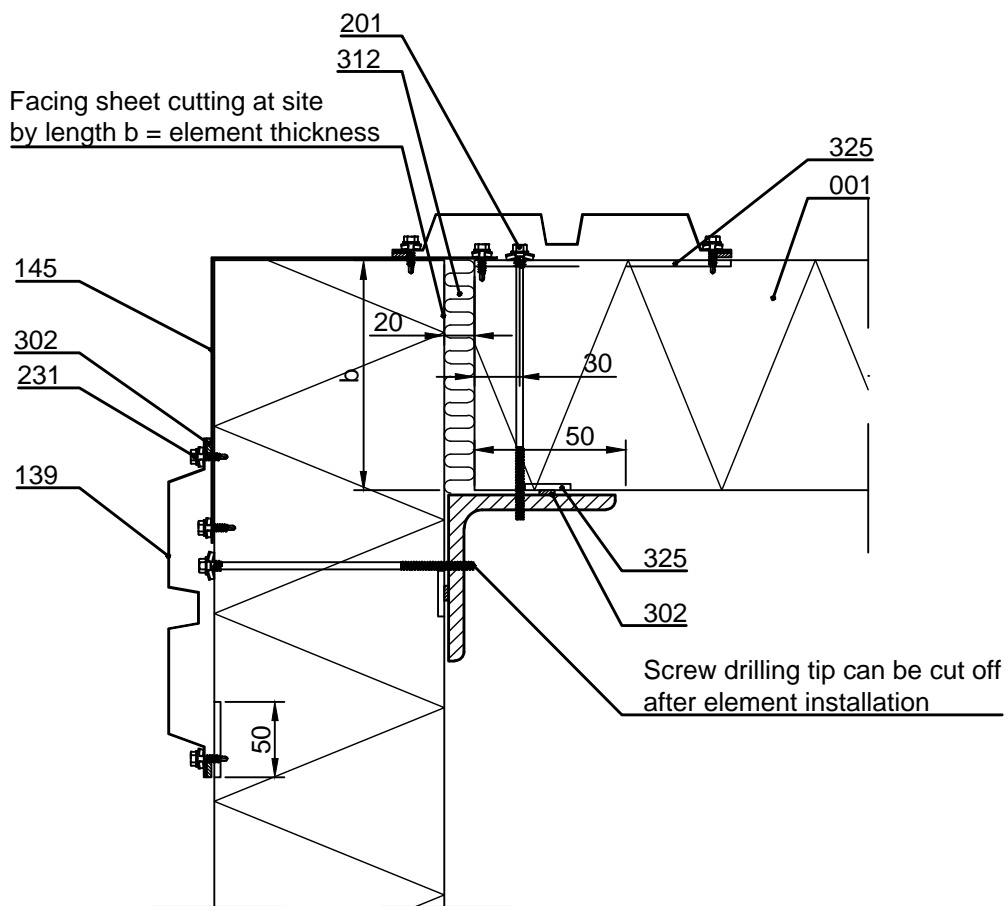
Concrete casting is made in the factory or for a construction site related reason made at site before the element installation.

Every 5th element vertically and elements above an opening must be fixed to support by fasteners going through the element.

- ☐ 001. Sandwich panel SPA
- ☐ 121. /EA6FP_/ Fastening plate
- ☐ 138. /EA1JV2/ Vertical joint flashing
- ☐ 145. /EA1C10-___/ External corner flashing, t = 1 mm / 1.2 mm (limited range of colours)
- ☐ 221. Internal threaded socket and hex bolt
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 325. Ruukki silicone
during installation to outer female groove in length equivalent to vertical joint flashing width
and inner female groove in length of sealing

☒ Ruukki's delivery

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA04-9E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



Secondary steel supports for elements according to structural designer.

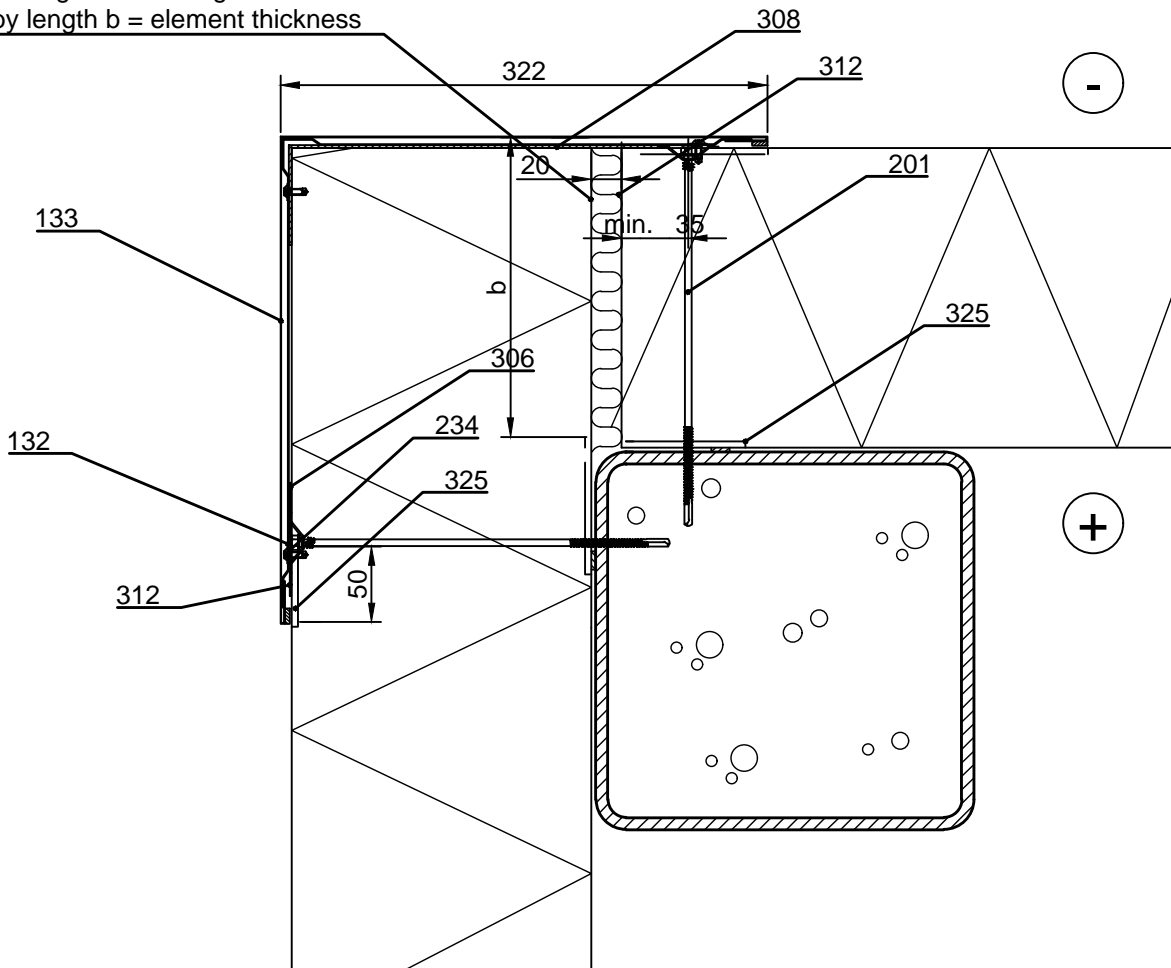
The structures on the side of the roof are displayed in the parapet details.

- ☐ 001. Sandwich panel SPA
- ☐ 139. /EA1JV3/ Vertical joint flashing
- ☐ 145. /EA1C10-___/ Vertical joint flashing, t = 1 mm / 1.2 mm (limited range of colours)
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 325. Ruukki silicone
during installation to outer female groove in length equivalent to vertical joint flashing width
and inner female groove in length of sealing

☒ Ruukki's delivery

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA04-30E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

Facing sheet cutting at site
by length b = element thickness



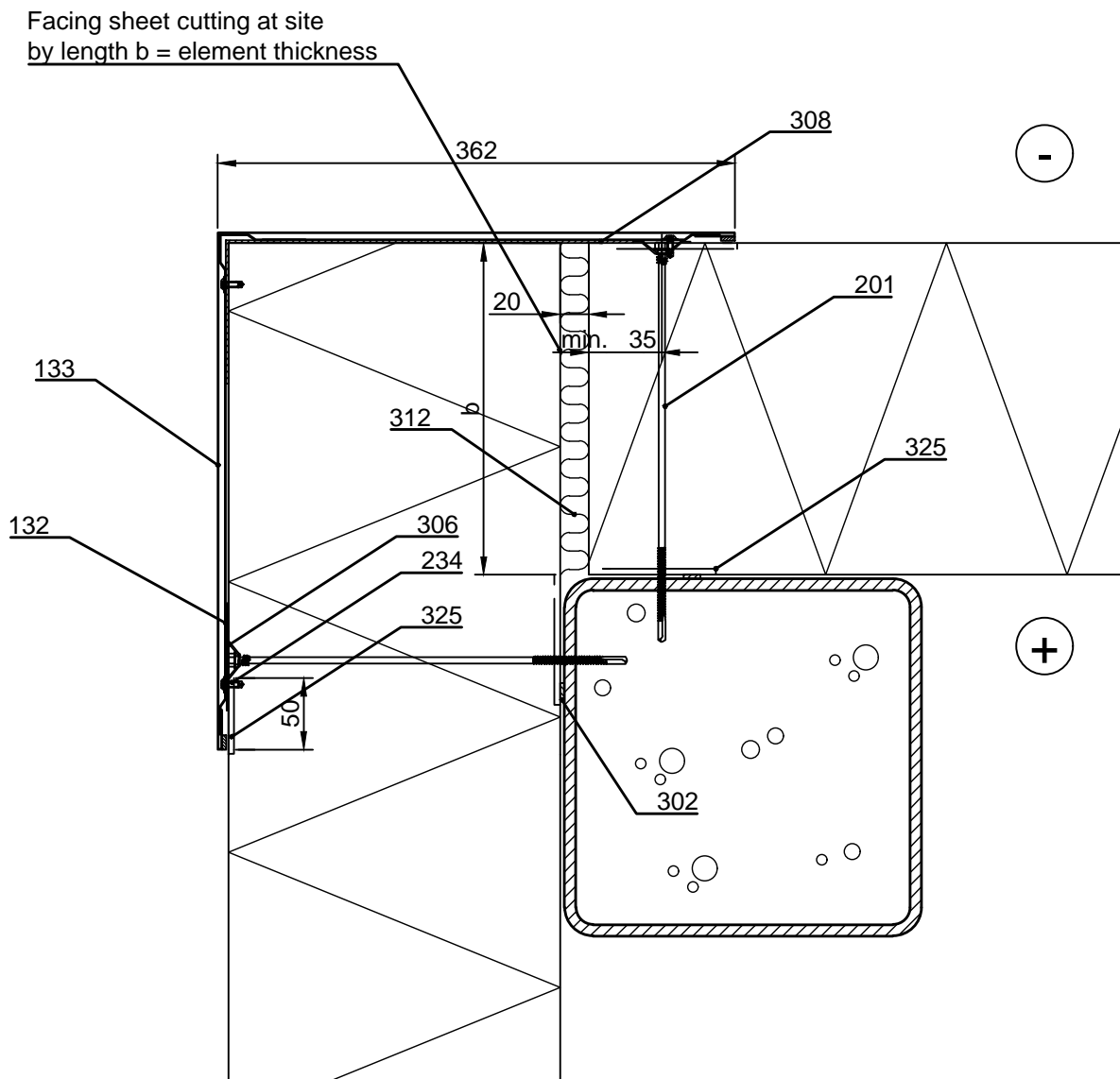
Elements must be installed before
concrete casting.

- ☐ 001. Sandwich panel SPA
- ☐ 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. /S1E42013G___/ 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
- ☐ 306. /EA3JS7525/ Joint sealing
- ☐ 308. /EA3JSC30025/ Joint sealing corner
- ☐ 312. /EAWS5657850/ Mineral wool roll
- ☐ 325. Ruukki silicone
during installation to outer female groove in length
equivalent to vertical joint flashing width and
inner female groove in length of sealing

☒ Ruukki's delivery

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA04-31E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

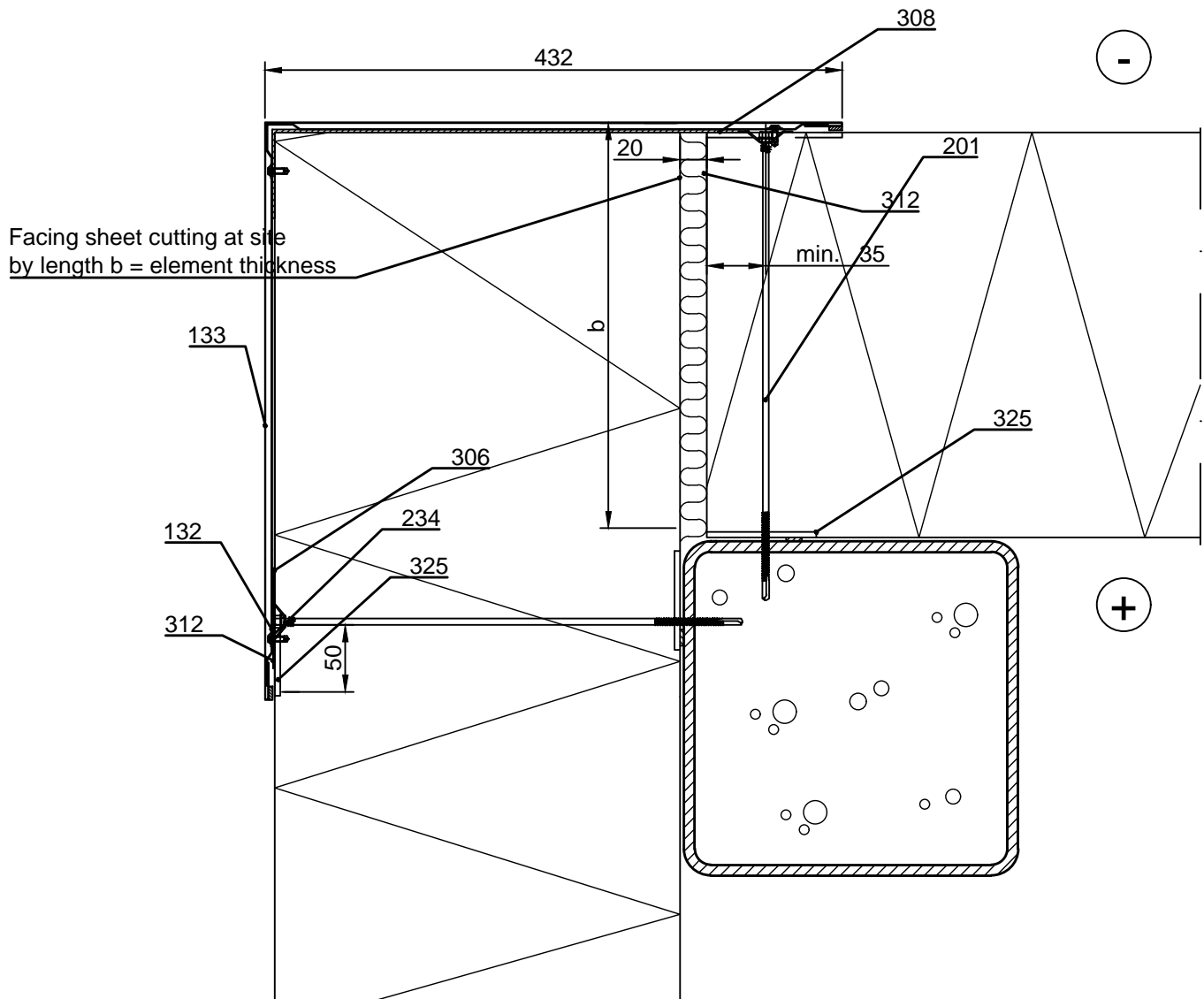


Elements must be installed before
concrete casting.

- | | |
|--|--|
| <input type="checkbox"/> 001. Sandwich panel SPA | <input type="checkbox"/> 303. /EA3SS1210/ Sealing strip |
| <input type="checkbox"/> 132. /EA1EXB6/ Corner bottom flashing Invisible | <input type="checkbox"/> 306. /EA3JS7525/ Joint sealing |
| <input type="checkbox"/> 133. /EA1ECI2/ External corner flashing Invisible | <input type="checkbox"/> 308. /EA3JSC30025/ Joint sealing corner |
| <input type="checkbox"/> 201. Self-drilling element screw, washer with sealing | <input type="checkbox"/> 312. /EAWS5657850/ Mineral wool roll |
| <input type="checkbox"/> 215. /EA2W40-910S/ Countersink washer | <input type="checkbox"/> 325. Ruukki silicone |
| <input type="checkbox"/> 234. /S1E42013G___/ Flat head flashing fastener | during installation to outer female groove in length |
| <input type="checkbox"/> 302. /EA3SS410/ Sealing strip | equivalent to vertical joint flashing width and |
| /EA3SS510/ Sealing band EPDM for flashing | inner female groove in length of sealing |
| (for demanding climate conditions e.g. coastal areas) | |

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Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA04-32E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



Elements must be installed before
concrete casting.

- | | |
|--|--|
| <input type="checkbox"/> 001. Sandwich panel SPA | <input type="checkbox"/> 303. /EA3SS1210/ Sealing strip |
| <input type="checkbox"/> 132. /EA1EXB7/ Corner bottom flashing Invisible | <input type="checkbox"/> 306. /EA3JS7525/ Joint sealing |
| <input type="checkbox"/> 133. /EA1ECI3/ External corner flashing Invisible | <input type="checkbox"/> 308. /EA3JSC30025/ Joint sealing corner |
| <input type="checkbox"/> 201. Self-drilling element screw, washer with sealing | <input type="checkbox"/> 312. /EAWS5657850/ Mineral wool roll |
| <input type="checkbox"/> 215. /EA2W40-910S/ Countersink washer | <input type="checkbox"/> 325. Ruukki silicone |
| <input type="checkbox"/> 234. /S1E42013G___/ Flat head flashing fastener | |
| <input type="checkbox"/> 302. /EA3SS410/ Sealing strip | during installation to outer female groove in length |
| <input type="checkbox"/> 302. /EA3SS510/ Sealing band EPDM for flashing | equivalent to vertical joint flashing width and |
| (for demanding climate conditions e.g. coastal areas) | inner female groove in length of sealing |

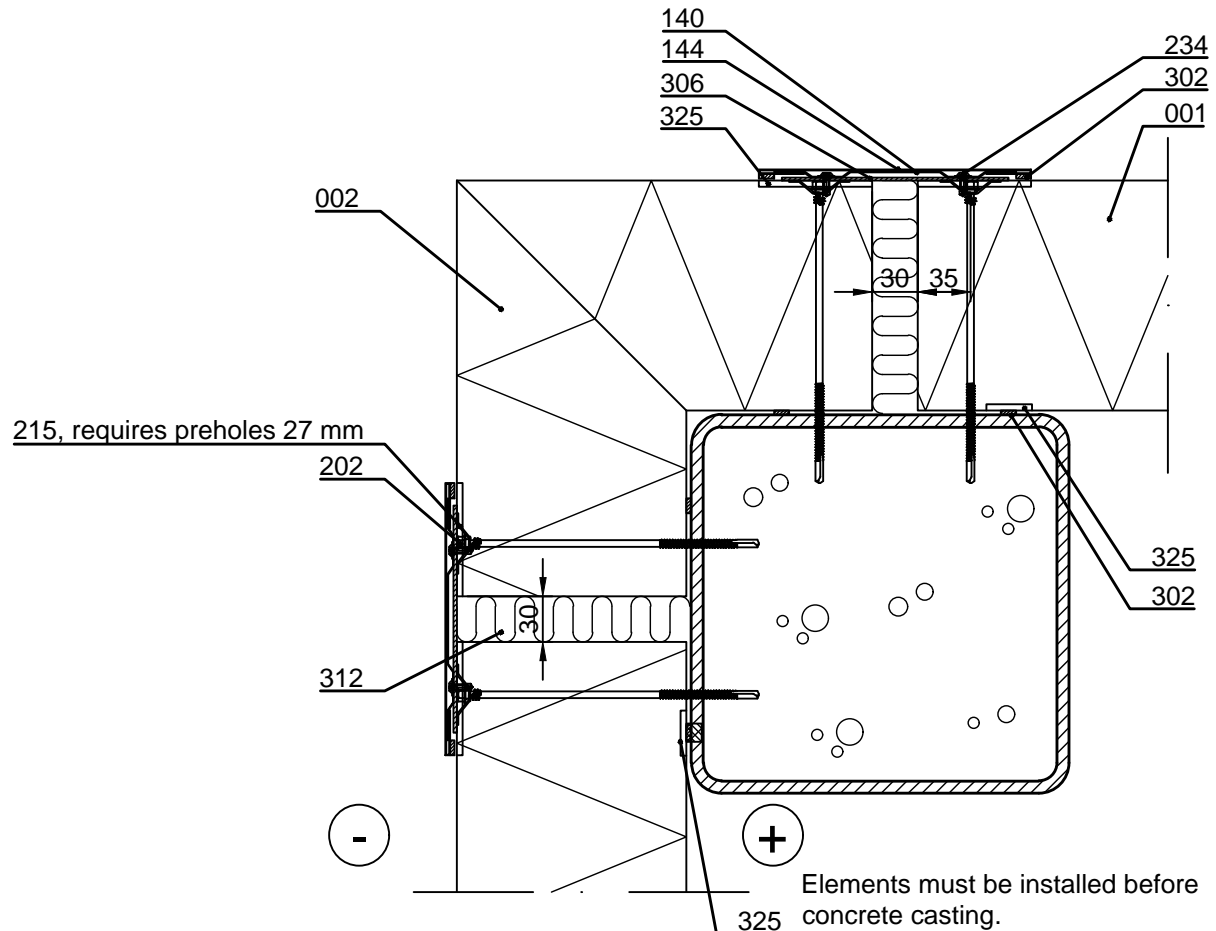
☒ Ruukki's delivery



Contents of drawing

Sandwich panel SPA, horizontal installation
External corner, horizontal section
Invisible flashing

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA04-33E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

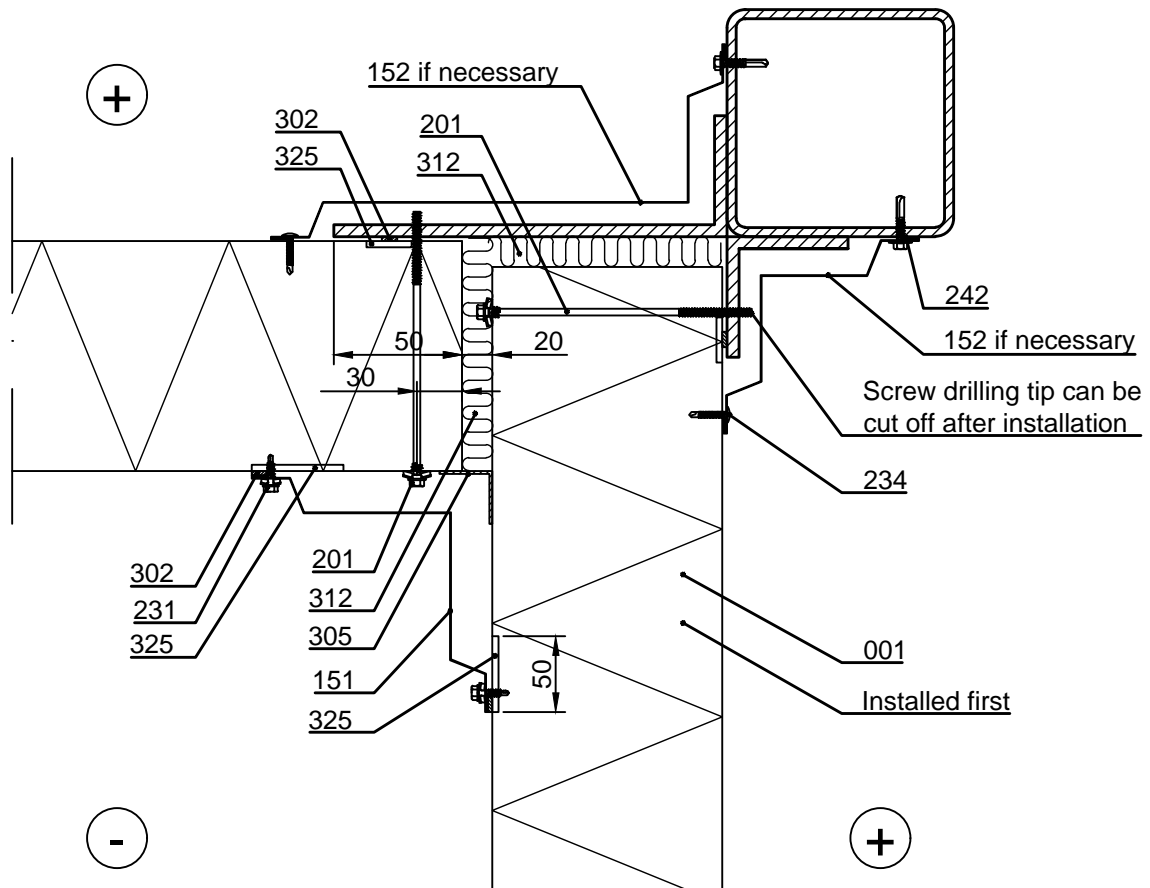


- ☐ 001. Sandwich panel SPA
- ☐ 002. Sandwich panel SPA corner element,
(SPA100 - 200 external dimension 300 - 2400 mm, SPA230 350 - 2400 mm, SPA300 420 - 2400 mm)
- ☐ 140. /EA1JVB4/ Vertical bottom flashing Invisible
- ☐ 144. /EA1JVI/ Vertical joint flashing Invisible
- ☐ 202. Self-drilling element screw, without washer
- ☐ 215. /EA2W40-910S/ Countersink washer
- ☐ 234. /S1E42013G ___/ Flat head flashing fastener
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)
- ☐ 306. /EA3JS7525/ Joint sealing
- ☐ 312. /EAWS5657850/ Mineral wool roll
- ☐ 325. Ruukki silicone
during installation to outer female groove in length
equivalent to vertical joint flashing width and inner female groove in length of sealing

☒ Ruukki's delivery

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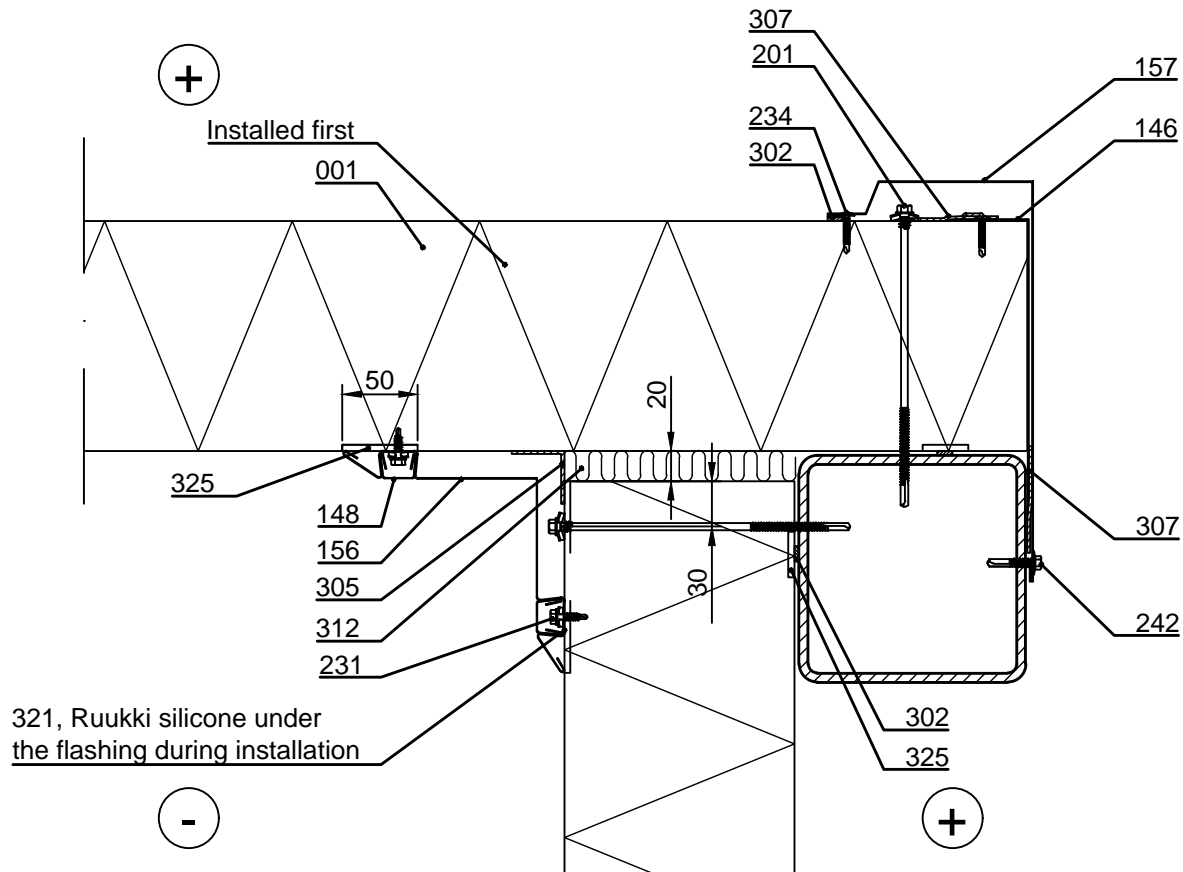
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA05-1E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



- ☐ 001. Sandwich panel SPA
- ☐ 151. /EA1IC3/ Internal corner flashing
- ☐ 152. Internal corner flashing, $t = 0.6 \text{ mm}$, according to project
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 234. Flat head flashing fastener
- ☐ 242. Fastener screw, without washer
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
- ☐ 305. /EA3JS7525/ Joint sealing
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 325. Ruukki silicone
during installation to outer female groove in length equivalent to vertical joint flashing width
and inner female groove in length of sealing

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Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA05-2E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

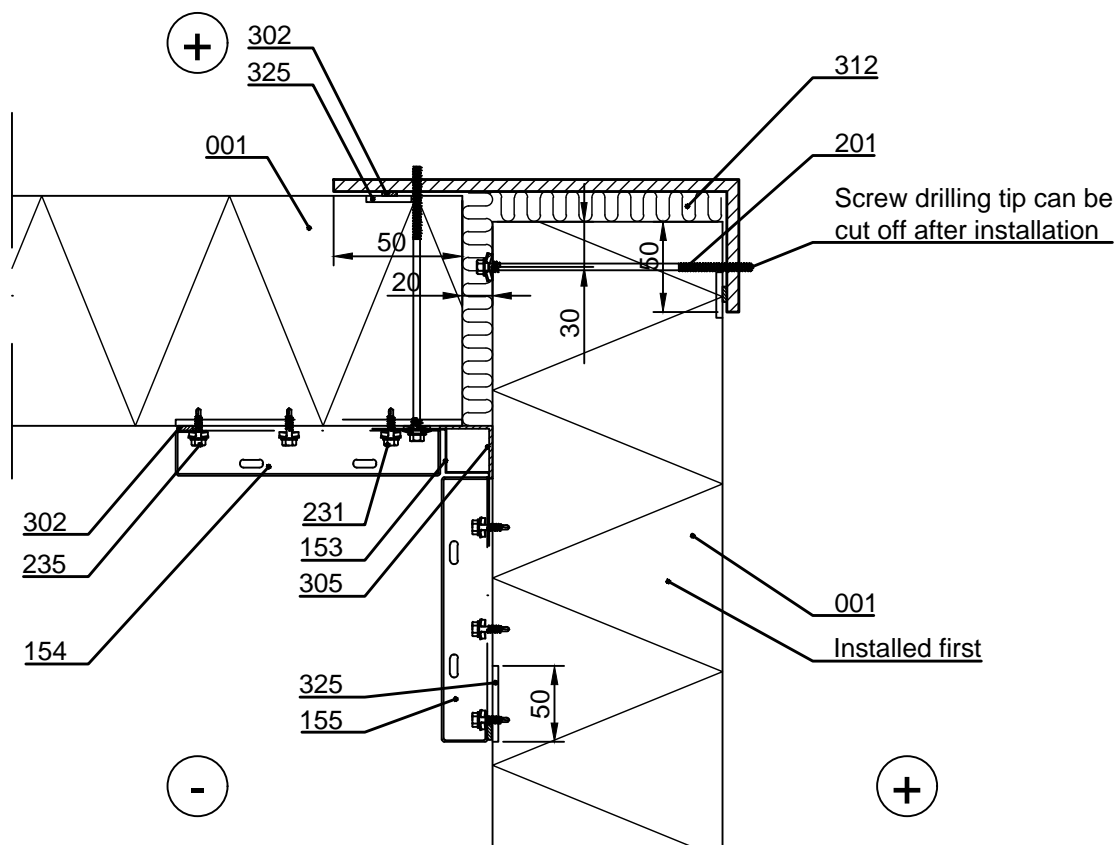


Remember that under internal corner flashing
EA1IC9 butt joints must be butt strap EA1CJP2

- ☐ 001. Sandwich panel SPA
- ☐ 146. /EA1EC9-___/ External corner flashing
- ☐ 148. /EA1VCO/ Vertical cover flashing
- ☐ 156. /EA1IC9/ Internal corner flashing
- ☐ 157. Cover flashing, t = 0.6 mm, according to project
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 234. Flat head flashing fastener
- ☐ 242. Fastener screw, without washer
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
- ☐ 305. /EA3JS7525/ Joint sealing
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 321. Ruukki silicone
- ☐ 325. Ruukki silicone
during installation to outer female groove in length equivalent to vertical joint flashing width
and inner female groove in length of sealing

☒ Ruukki's delivery

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA05-3E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

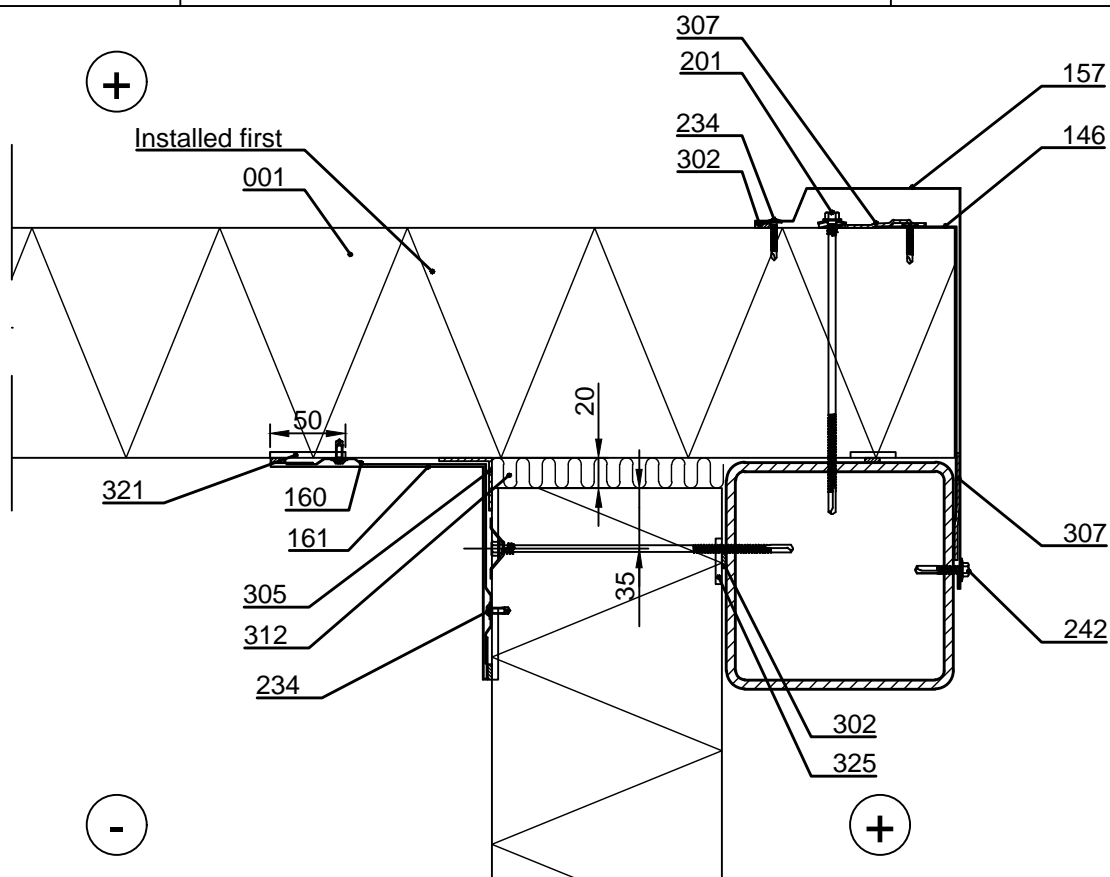


- ☐ 001. Sandwich panel SPA
- ☐ 153. /EA1IC8/ Internal corner flashing
- ☐ 154. /EA1IC10/12 (left)/ Internal corner panel
- ☐ 155. /EA1IC11/13 (right)/ Internal corner panel
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 235. Joint panel fastener, stainless steel, washer with sealing
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
- ☐ 305. /EA3JS7525/ Joint sealing
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 325. Ruukki silicone
during installation to outer female groove in length equivalent to vertical joint flashing width
and inner female groove in length of sealing

☒ Ruukki's delivery

Sandwich panel SPA, horizontal installation
Internal corner, horizontal section
Invisible flashing

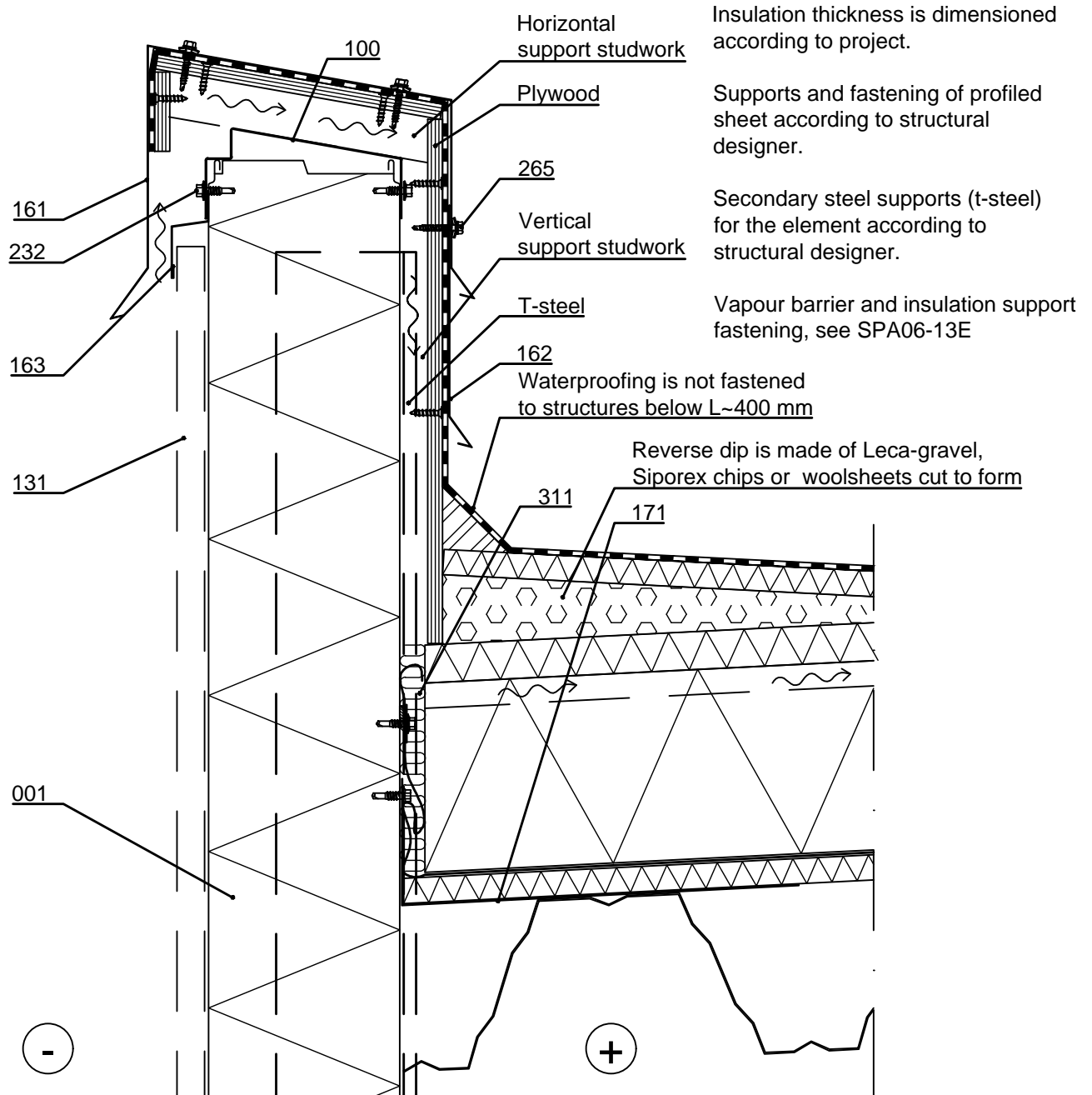
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA05-30E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



- | | |
|---|--|
| <input type="checkbox"/> 001. Sandwich panel SPA | <input type="checkbox"/> 302. /EA3SS410/ Sealing strip |
| <input type="checkbox"/> 146. /EA1EC9-___/ External corner flashing | <input type="checkbox"/> /EA3SS510/ Sealing band EPDM for flashing |
| <input type="checkbox"/> 157. Cover flashing t = 0.6 mm, according to project | <input type="checkbox"/> (for demanding climate conditions e.g. coastal areas) |
| <input type="checkbox"/> 160. /EA1IXBI/ Internal corner bottom flashing Invisible | <input type="checkbox"/> 305. /EA3JS7525/ Joint sealing |
| <input type="checkbox"/> 161. /EA1ICI/ Internal corner flashing Invisible | <input type="checkbox"/> 312. /EAWS___/ Mineral wool roll |
| <input type="checkbox"/> 201. Self-drilling screw, washer with sealing | <input type="checkbox"/> 321. Ruukki silicone |
| <input type="checkbox"/> 215. /EA2W40-910S/ Countersink washer | <input type="checkbox"/> 325. Ruukki silicone |
| <input type="checkbox"/> 231. Flashing fastener, washer with sealing | <input type="checkbox"/> during installation to outer female groove in length |
| <input type="checkbox"/> 234. /S1E42013G___/ Flat head flashing fastener | <input type="checkbox"/> equivalent to vertical joint flashing width and |
| <input type="checkbox"/> 242. Screw, without washer | <input type="checkbox"/> inner female groove in length of sealing |

☒ Ruukki's delivery

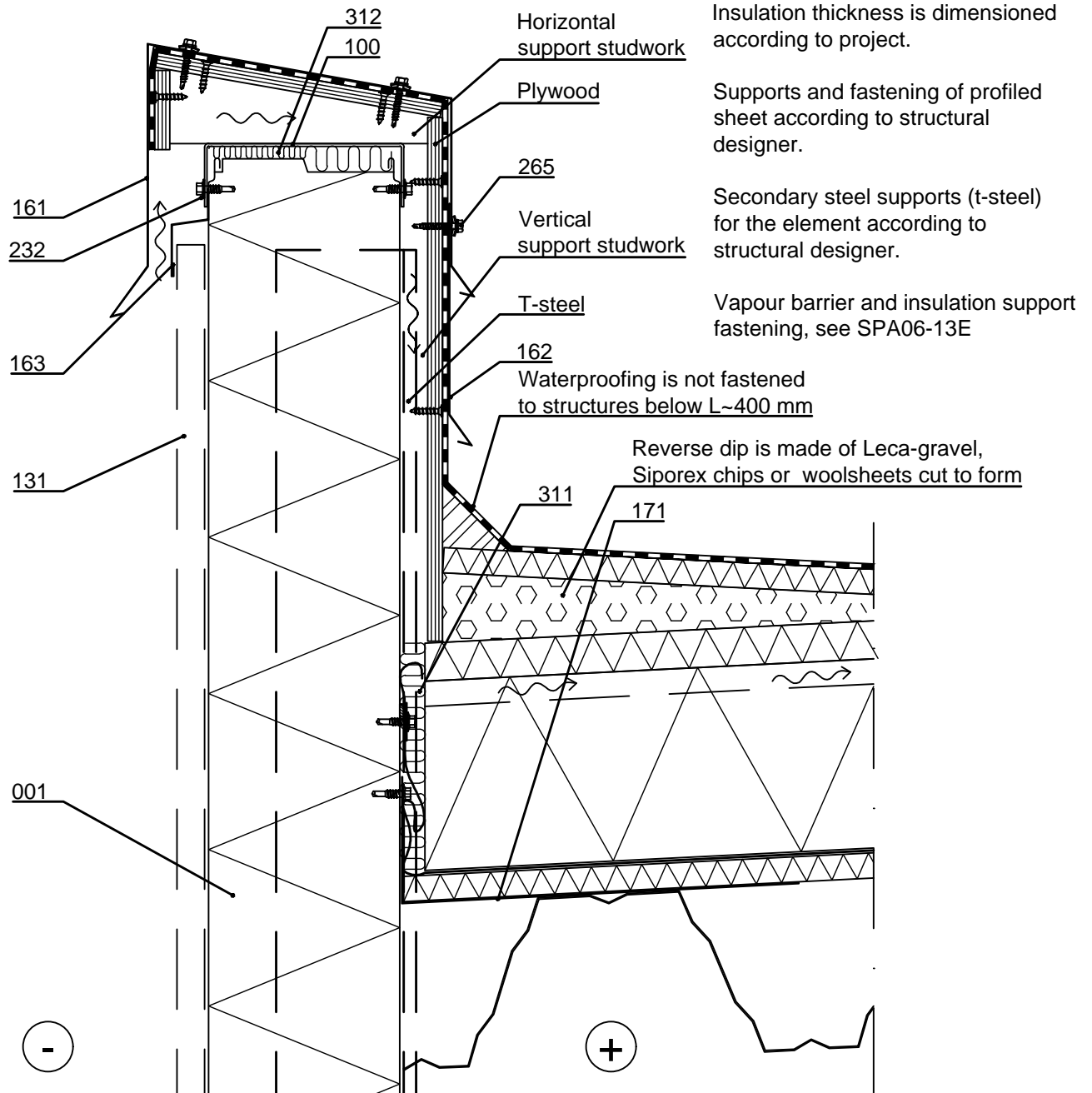
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA06-1E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



- ☐ 001. Sandwich panel SPA
- ☐ 100. /EA1EP___/ Purlin
- ☐ 131. /EA1JV1/ Vertical joint flashing
- ☐ 161. Eave flashing, t = 0.6 mm, according to project
- ☐ 162. Cover 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, according to project
- ☐ 232. Flashing fastener, without washer
- ☐ 265. Fastener screw to wood, washer with sealing
- ☐ 311. /EAWS30565/ Mineral wool

☒ Ruukki's delivery

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA06-1E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



- ☐ 001. Sandwich panel SPA
- ☐ 100. /EA1EPF___/ Purlin
- ☐ 131. /EA1JV1/ Vertical joint flashing
- ☐ 161. Eave flashing, t = 0.6 mm, according to project
- ☐ 162. Cover 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, according to project
- ☐ 232. Flashing fastener, without washer
- ☐ 265. Fastener screw to wood, washer with sealing
- ☐ 311. /EAWS30565/ Mineral wool
- ☐ 312. /EAWS___/ Mineral wool band

☒ Ruukki's delivery

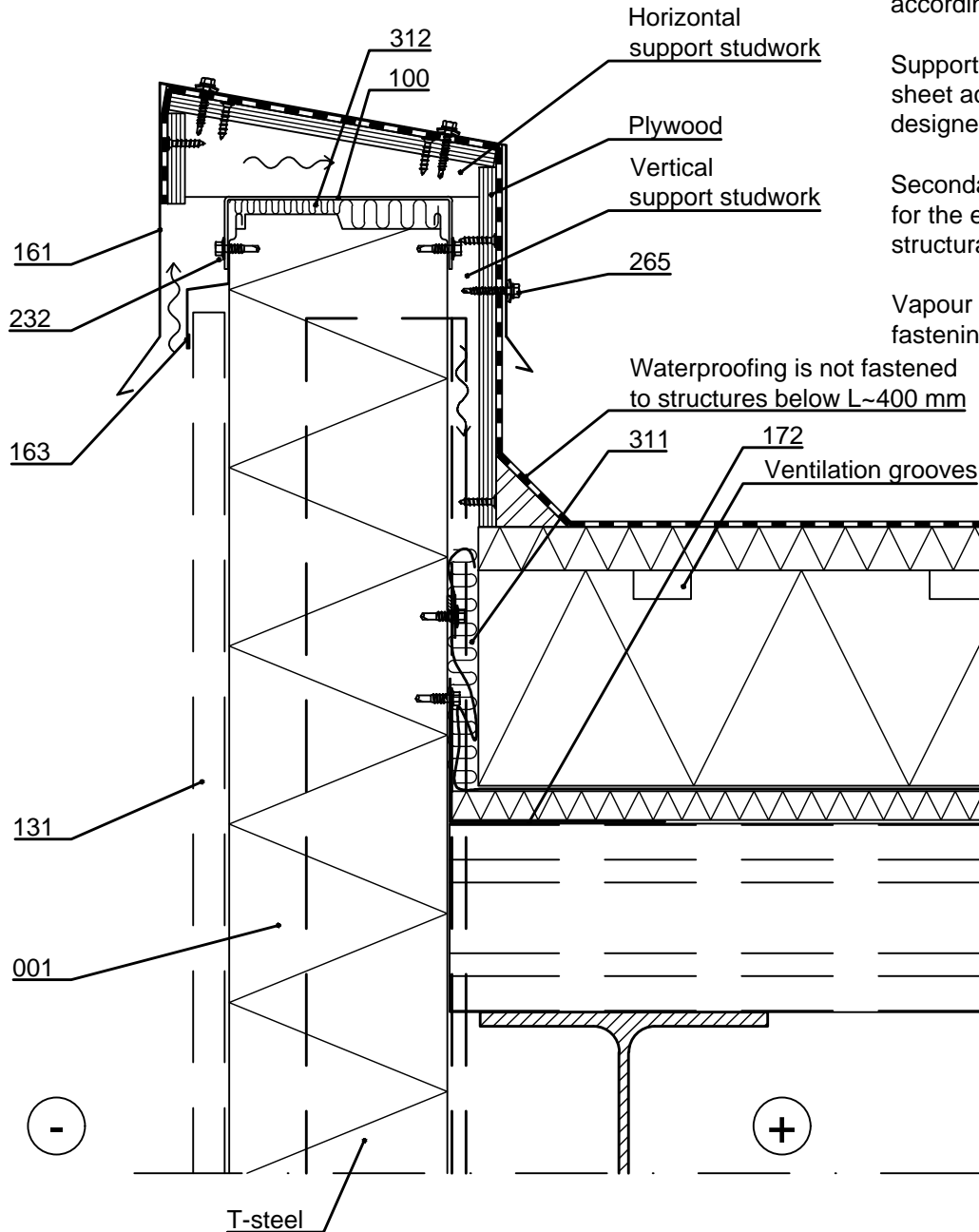
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA06-2E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

Insulation thickness is dimensioned according to project.

Supports and fastening of profiled sheet according to structural designer.

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

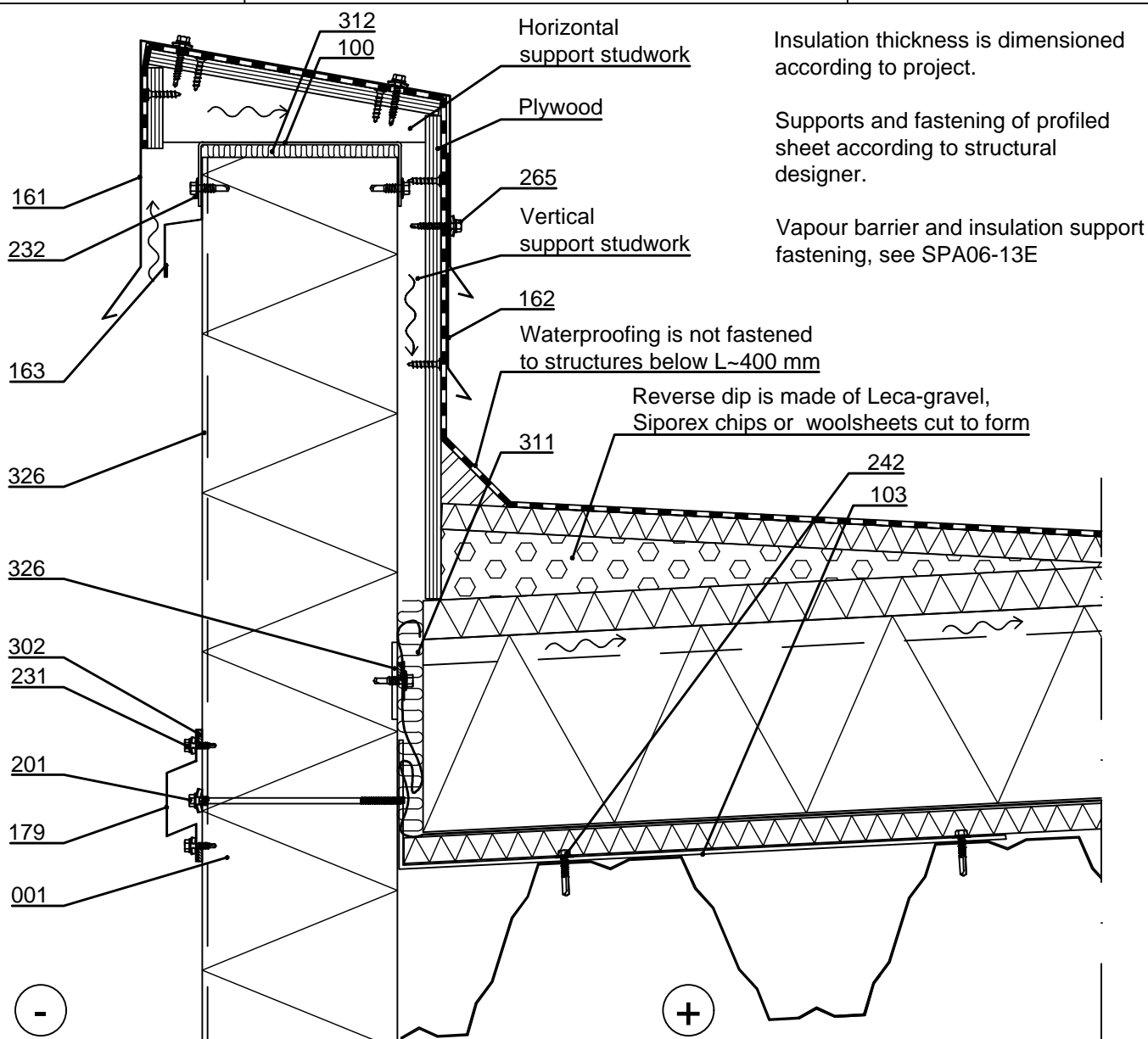
Vapour barrier and insulation support fastening, see SPA06-13E



- | | |
|--|---|
| <input type="checkbox"/> 001. Sandwich panel SPA | <input type="checkbox"/> 172. Insulation support flashing, t = 0.6 mm |
| <input type="checkbox"/> 100. /EA1EPF___/ Purlin | <input type="checkbox"/> 232. Flashing fastener, without washer |
| <input type="checkbox"/> 131. /EA1JV1/ Vertical joint flashing | <input type="checkbox"/> 265. Fastener screw to wood, washer with sealing |
| <input type="checkbox"/> 161. Eave flashing, t = 0.6 mm, according to project | <input type="checkbox"/> 311. /EAWS30565/ Mineral wool |
| <input type="checkbox"/> 163. Storm flashing, t = 0.6 mm, according to project | <input type="checkbox"/> 312. /EAWS___/ Mineral wool band |

☒ Ruukki's delivery

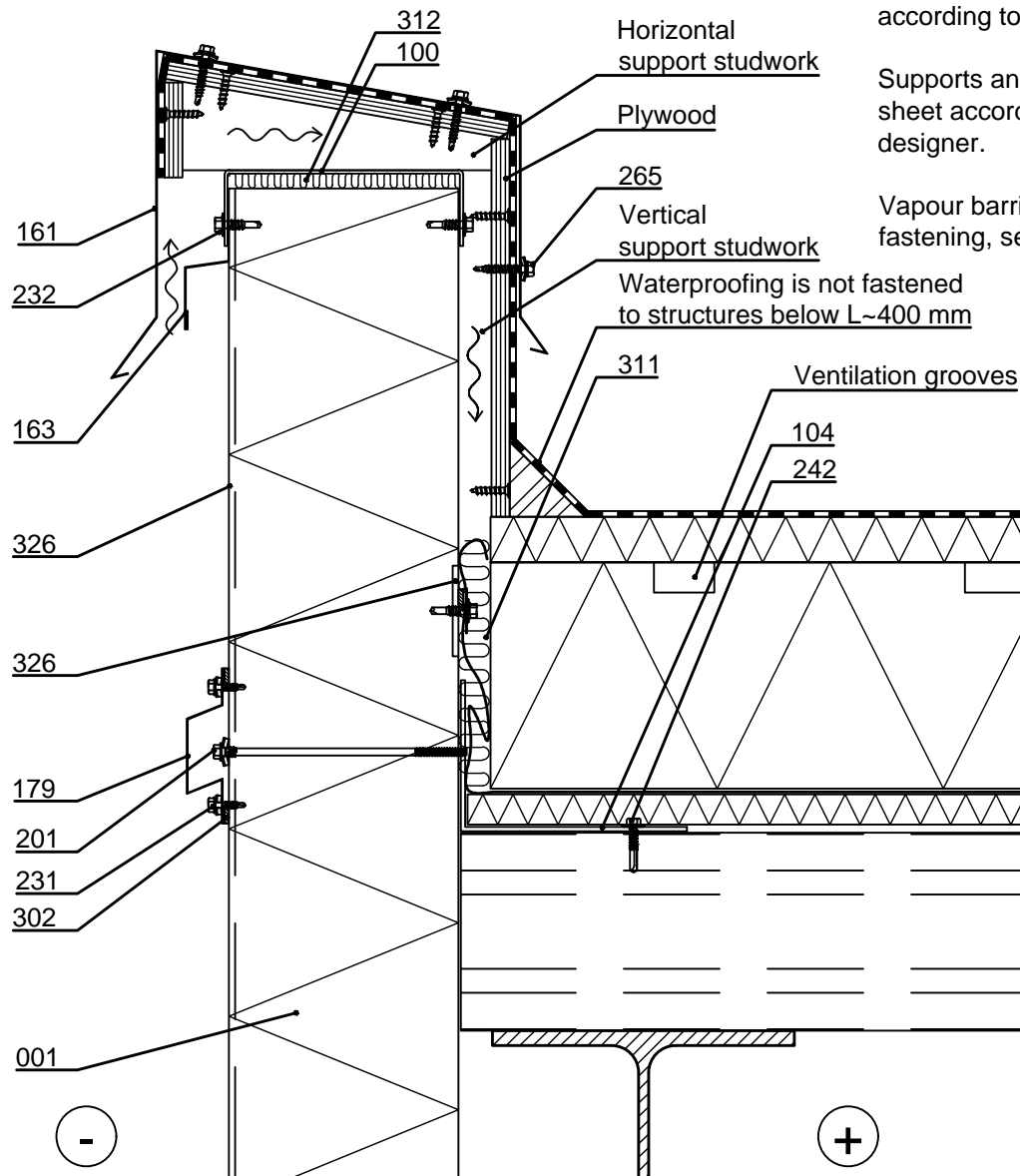
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA06-3E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building	File nr.	



- ☐ 001. Sandwich panel SPA
- ☐ 100. /EA1EPF___/ Purlin
- ☐ 103. Flashing for fastening / insulation support flashing, t=3 mm, according to project
- ☐ 161. Eave flashing, t = 0.6 mm, according to project
- ☐ 162. Cover flashing, t = 0.6 mm, according to project
- ☐ 163. Storm flashing, t = 0.6 mm, according to project
- ☐ 179. Cover flashing, t = 0.6 mm, according to project
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 232. Flashing fastener, without washer
- ☐ 242. Fastener screw, without washer
- ☐ 265. Fastener screw to wood, washer with sealing
- ☐ 302. /EA3SS410/ Sealing strip
- ☐ 311. /EAWS30565/ Mineral wool
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 325. Ruukki silicone during inst. to outer female groove in full length of element and inner female groove 60 mm from panel end

☒ Ruukki's delivery

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA06-4E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



Insulation thickness is dimensioned according to project.

Supports and fastening of profiled sheet according to structural designer.

Vapour barrier and insulation support fastening, see SPA06-13E

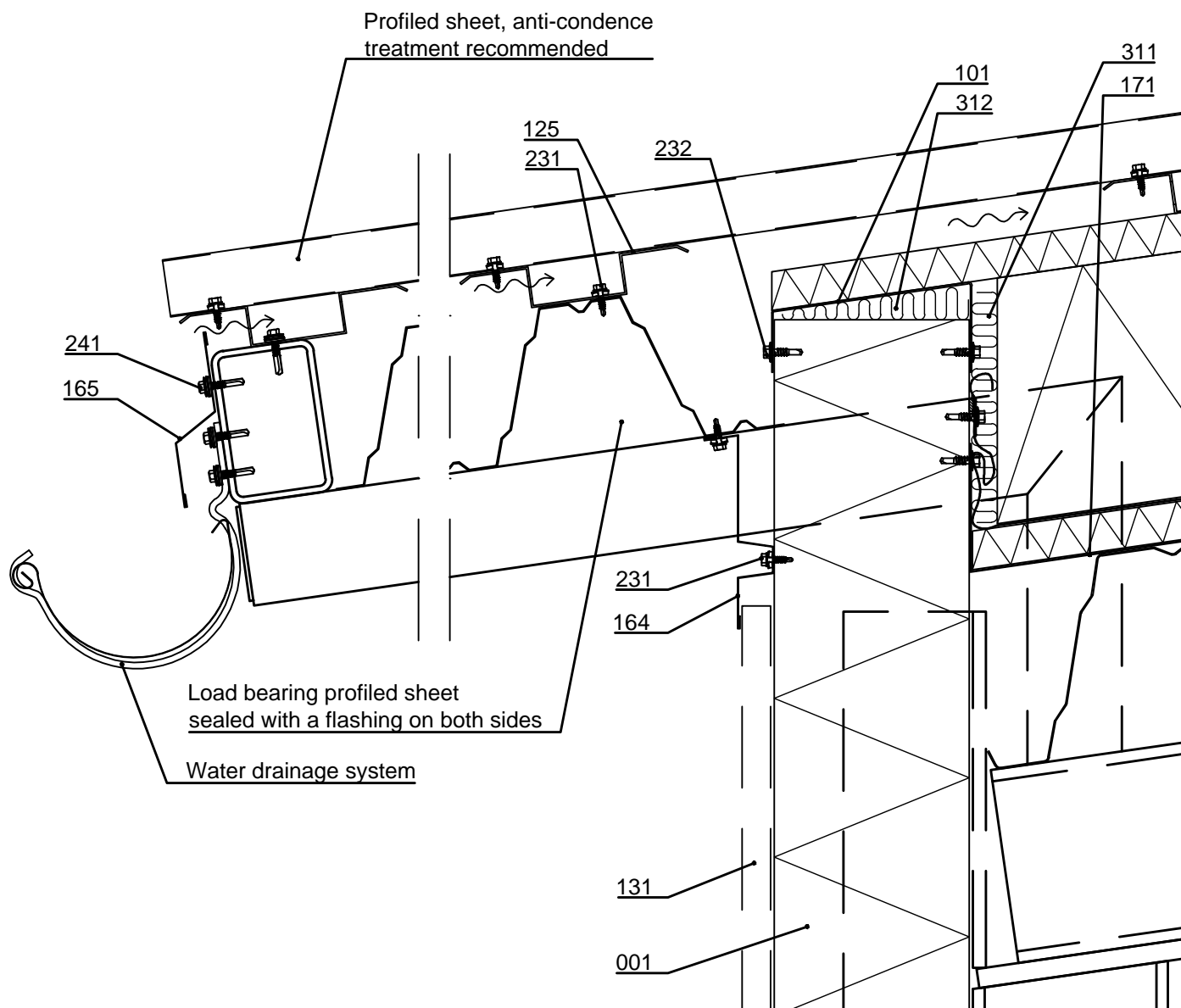
Waterproofing is not fastened to structures below L~400 mm

Ventilation grooves

- ☐ 001. Sandwich panel SPA
- ☐ 100. /EA1EPF___/ Purlin
- ☐ 104. Flashing for fastening / insulation support flashing, t=3 mm, according to project
- ☐ 161. Eave flashing, t = 0.6 mm, according to project
- ☐ 163. Storm flashing, t = 0.6 mm, according to project
- ☐ 179. Cover flashing, t = 0.6 mm, according to project
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 232. Flashing fastener, without washer
- ☐ 242. Fastener screw, without washer
- ☐ 265. Fastener screw to wood, washer with sealing
- ☐ 302. /EA3SS410/ Sealing strip
- ☐ 311. /EAWS30565/ Mineral wool
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 325. Ruukki silicone during inst. to outer female groove in full length of element and inner female groove 60 mm from panel end

☒ Ruukki's delivery

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA06-5E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building	File nr.	



- ☐ 001. Sandwich panel SPA
- ☐ 101. Eave purlin, according to project
- ☐ 125. /EA1HP1/ Ventilated hat purlin
- ☐ 131. /EA1JV1/ Vertical joint flashing
- ☐ 164. Storm flashing, $t = 0.6$ mm, according to project
- ☐ 165. Eave flashing, $t = 0.6$ mm, according to project
- ☐ 171. Insulation support flashing, $t = 0.6$ mm, according to project
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 232. Flashing fastener, without washer
- ☐ 241. Fastener screw, washer with sealing
- ☐ 311. /EAWS30565/ Mineral wool
- ☐ 312. /EAWS___/ Mineral wool band

☒ Ruukki's delivery

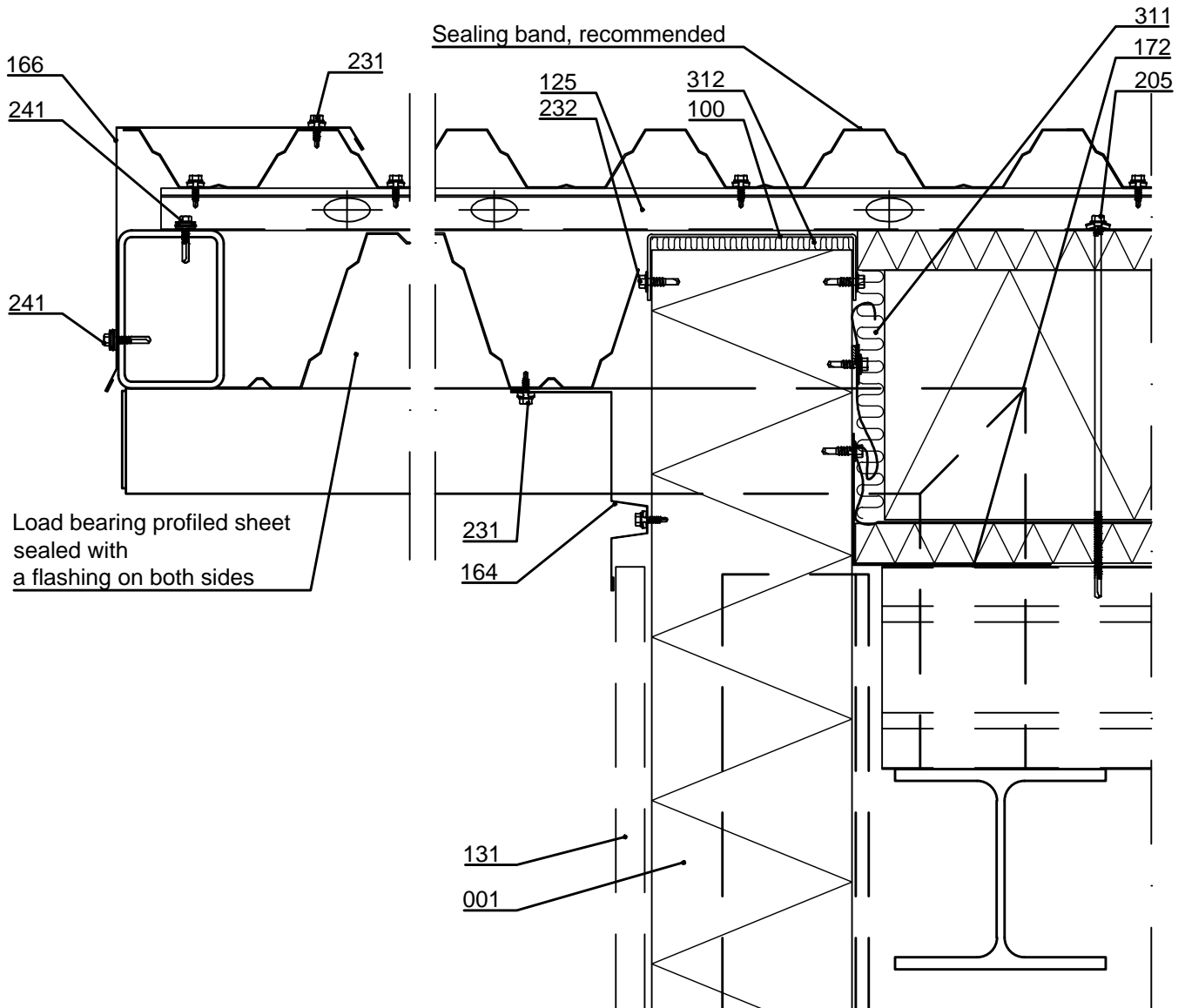
Insulation thickness is dimensioned according to project.

Supports and fastening of profiled sheet according to structural designer.

Element is cut at the point where it intersects with the steel structure. Vapour barrier is taped around the steel.

Vapour barrier and insulation support fastening, see SPA06-13E

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA06-6E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building	File nr.	



- ☐ 001. Sandwich panel SPA
- ☐ 100. /EA1EPF___/ Purlin
- ☐ 125. /EA1HP1/ Ventilated hat purlin
- ☐ 131. /EA1JV1/ Vertical joint flashing
- ☐ 164. Storm flashing, t = 0.6 mm, according to project
- ☐ 166. Eave flashing, t = 0.6 mm, according to project
- ☐ 172. Insulation support flashing, t = 0.6 mm
- ☐ 205. Self-drilling element screw / fastener screw for roof
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 232. Flashing fastener, without washer
- ☐ 241. Fastener screw, washer with sealing
- ☐ 311. /EAWS30565/ Mineral wool
- ☐ 312. /EAWS___/ Mineral wool band

☒ Ruukki's delivery

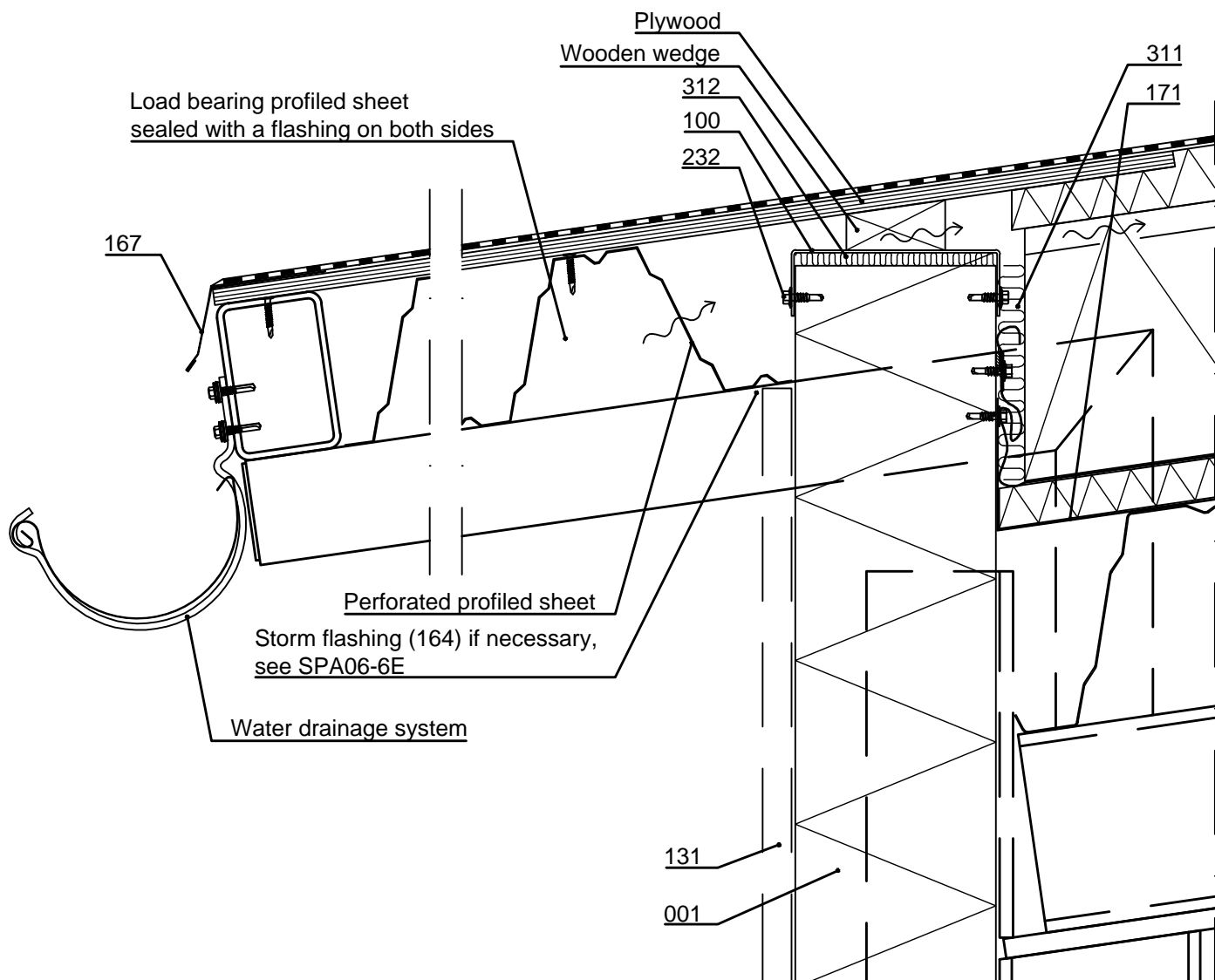
Insulation thickness is dimensioned according to project.

Supports and fastening of profiled sheet according to structural designer.

Element is cut at the point where it intersects with the steel structure. Vapour barrier is taped around the steel.

Vapour barrier and insulation support fastening, see SPA06-13E

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA06-7E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



Insulation thickness is dimensioned according to project.

Supports and fastening of profiled sheet according to structural designer.

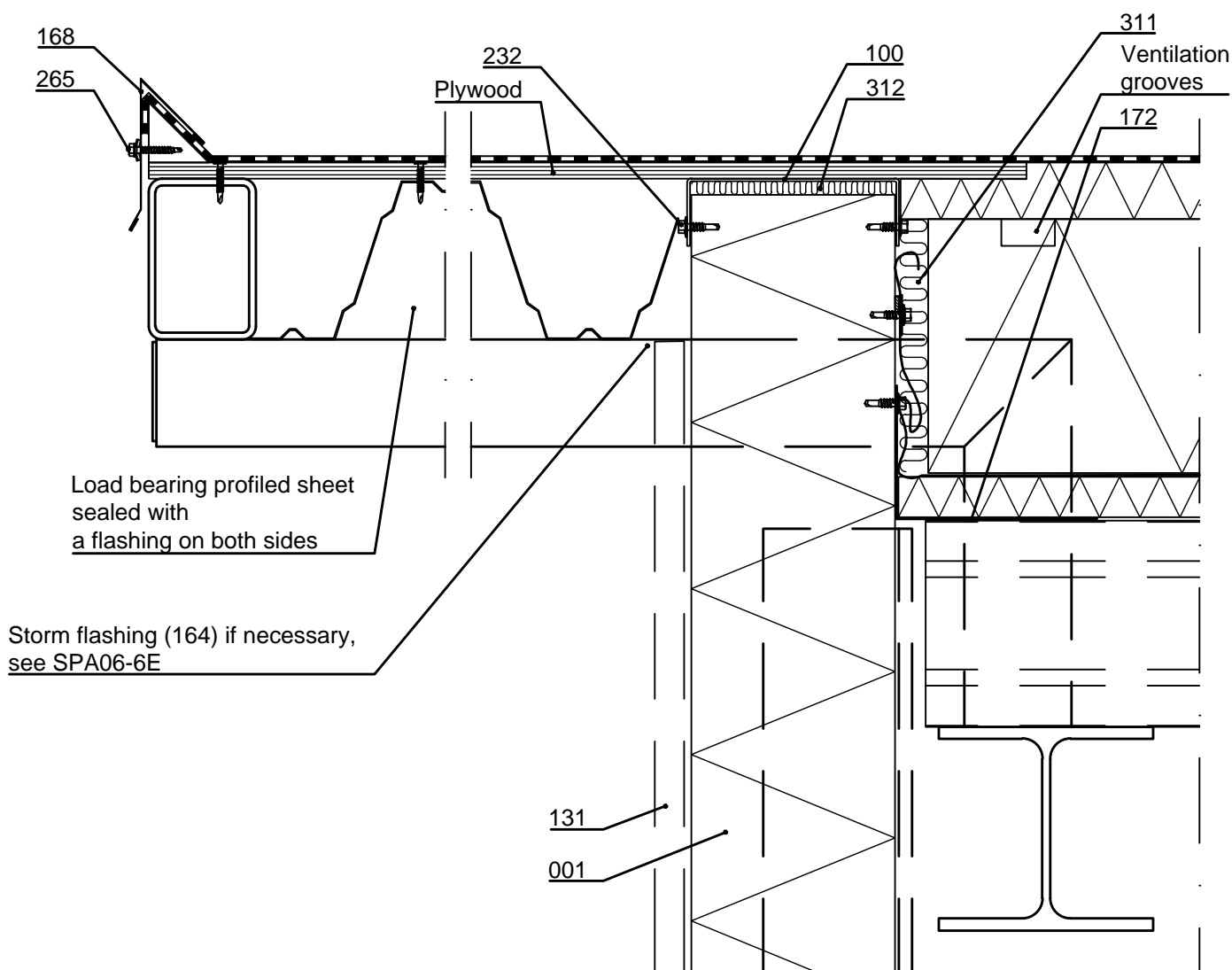
Element is cut at the point where it intersects with the steel structure. Vapour barrier is taped around the steel.

Vapour barrier and insulation support fastening, see SPA06-13E

- ☐ 001. Sandwich panel SPA
- ☐ 100. /EA1EPF___/ Purlin
- ☐ 131. /EA1JV1/ Vertical joint flashing
- ☐ 167. Eave flashing, t = 0.6 mm, according to project
- ☐ 171. Insulation support flashing, t = 0.6 mm, according to project
- ☐ 232. Flashing fastener, without washer
- ☐ 311. /EAWS30565/ Mineral wool
- ☐ 312. /EAWS___/ Mineral wool band

☒ Ruukki's delivery

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA06-8E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



Insulation thickness is dimensioned according to project.

Supports and fastening of profiled sheet according to structural designer.

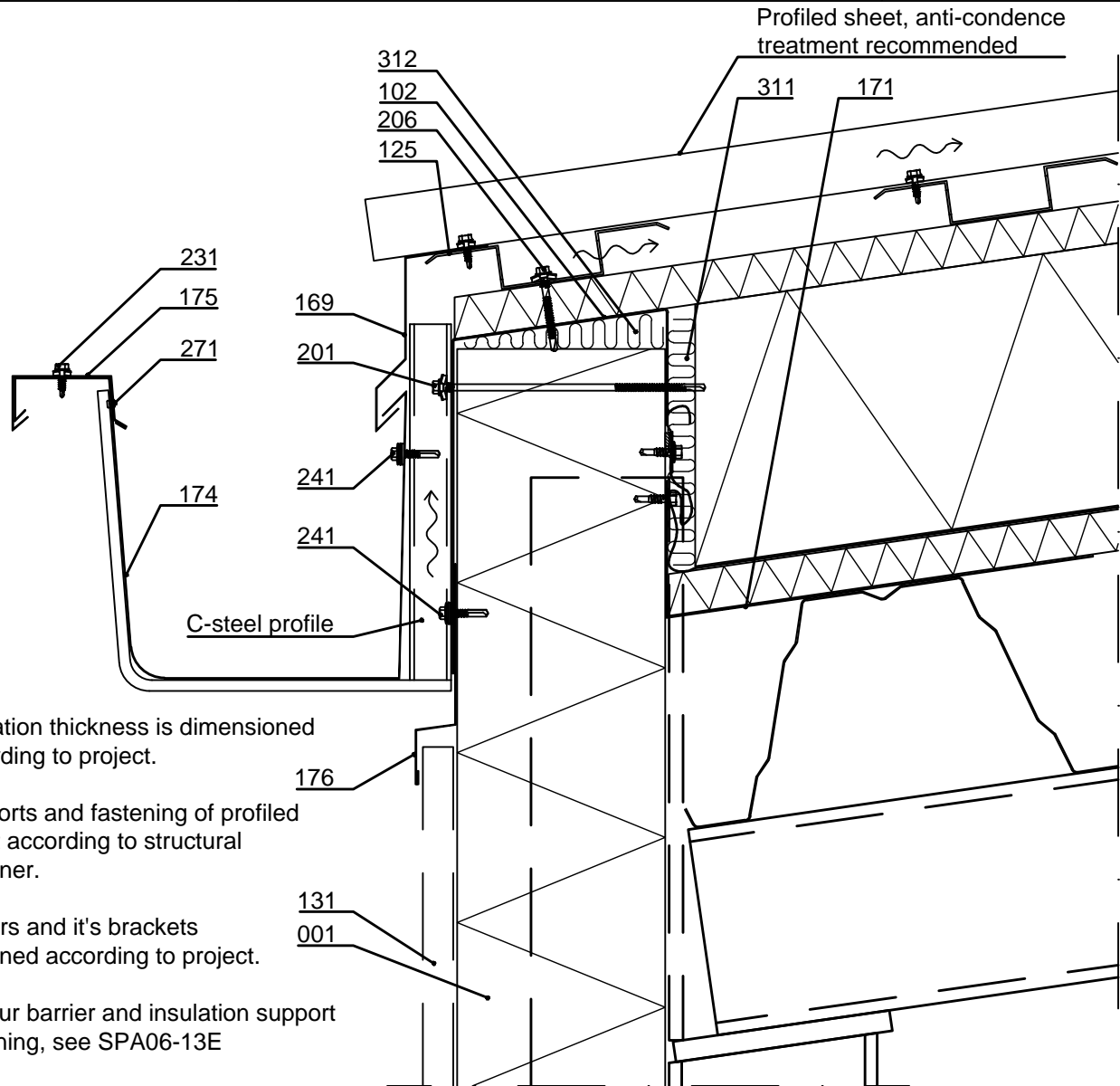
Element is cut at the point where it intersects with the steel structure. Vapour barrier is taped around the steel.

Vapour barrier and insulation support fastening, see SPA06-13E

- ☐ 001. Sandwich panel SPA
- ☐ 100. /EA1EPF___/ Purlin
- ☐ 131. /EA1JV1/ Vertical joint flashing
- ☐ 168. Eave flashing, t = 0.6 mm, according to project
- ☐ 172. Insulation support flashing, t = 0.6 mm
- ☐ 232. Flashing fastener, without washer
- ☐ 265. Fastener screw to wood, washer with sealing
- ☐ 311. /EAWS30565/ Mineral wool
- ☐ 312. /EAWS___/ Mineral wool band

☒ Ruukki's delivery

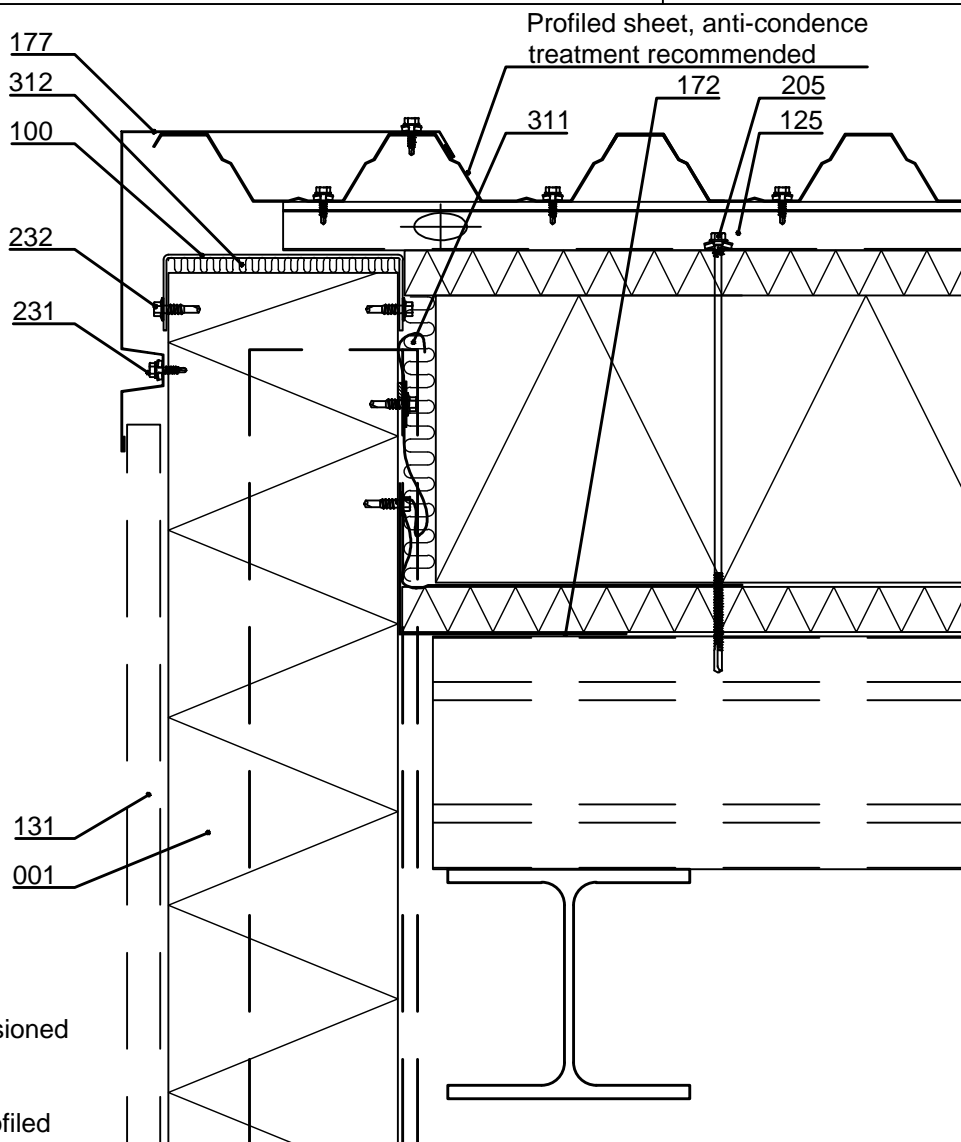
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA06-9E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building	File nr.	



- ☐ 001. Sandwich panel SPA
- ☐ 102. Eave purlin, t=2mm, according to project
- ☐ 125. /EA1HP1/ Ventilated hat purlin
- ☐ 131. /EA1JV1/ Vertical joint flashing
- ☐ 169. Eave flashing, t = 0.6 mm, according to project
- ☐ 171. Insulation support flashing, t = 0.6 mm, according to project
- ☐ 174. Gutter, t = 0.6 mm, according to project
- ☐ 175. Cover flashing, t = 0.6 mm, according to project
- ☐ 176. Storm flashing, t = 0.6 mm, according to project
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 206. Self-drilling element screw / fastener screw for roof
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 241. Fastener screw, washer with sealing
- ☐ 271. Rivet
- ☐ 311. /EAWS30565/ Mineral wool
- ☐ 312. /EAWS___/ Mineral wool band

☒ Ruukki's delivery

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA06-10E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



Insulation thickness is dimensioned according to project.

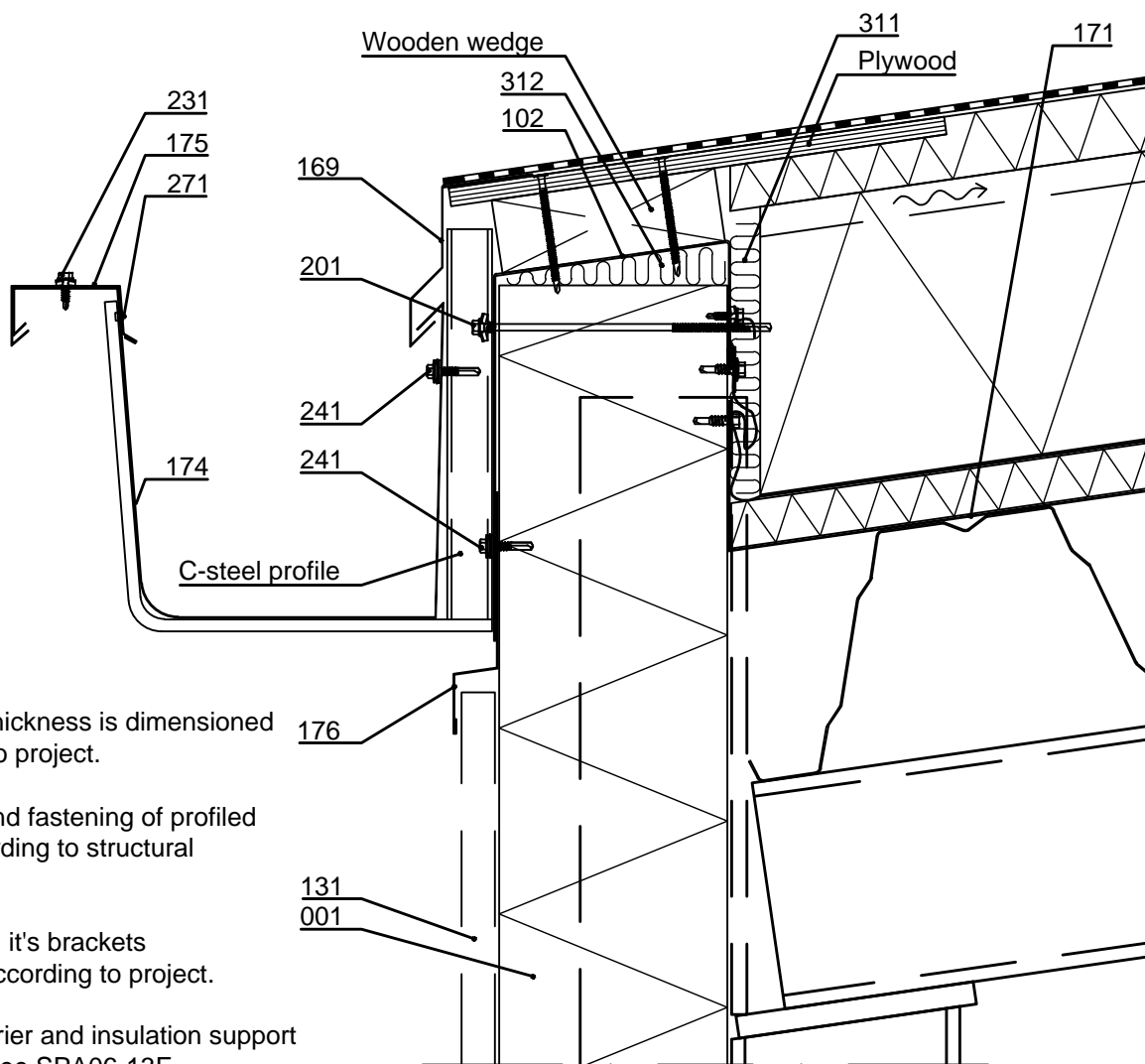
Supports and fastening of profiled sheet according to structural designer.

Vapour barrier and insulation support fastening, see SPA06-13E

- ☐ 001. Sandwich panel SPA
- ☐ 100. /EA1EPF___/ Purlin
- ☐ 125. /EA1HP1/ Ventilated hat purlin
- ☐ 131. /EA1JV1/ Vertical joint flashing
- ☐ 172. Insulation support flashing, t = 0.6 mm
- ☐ 177. Eave flashing, t = 0.6 mm, according to project
- ☐ 205. Self-drilling element screw / fastener screw for roof
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 232. Flashing fastener, without washer
- ☐ 311. /EAWS30565/ Mineral wool
- ☐ 312. /EAWS___/ Mineral wool band

☒ Ruukki's delivery

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA06-11E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



Insulation thickness is dimensioned according to project.

Supports and fastening of profiled sheet according to structural designer.

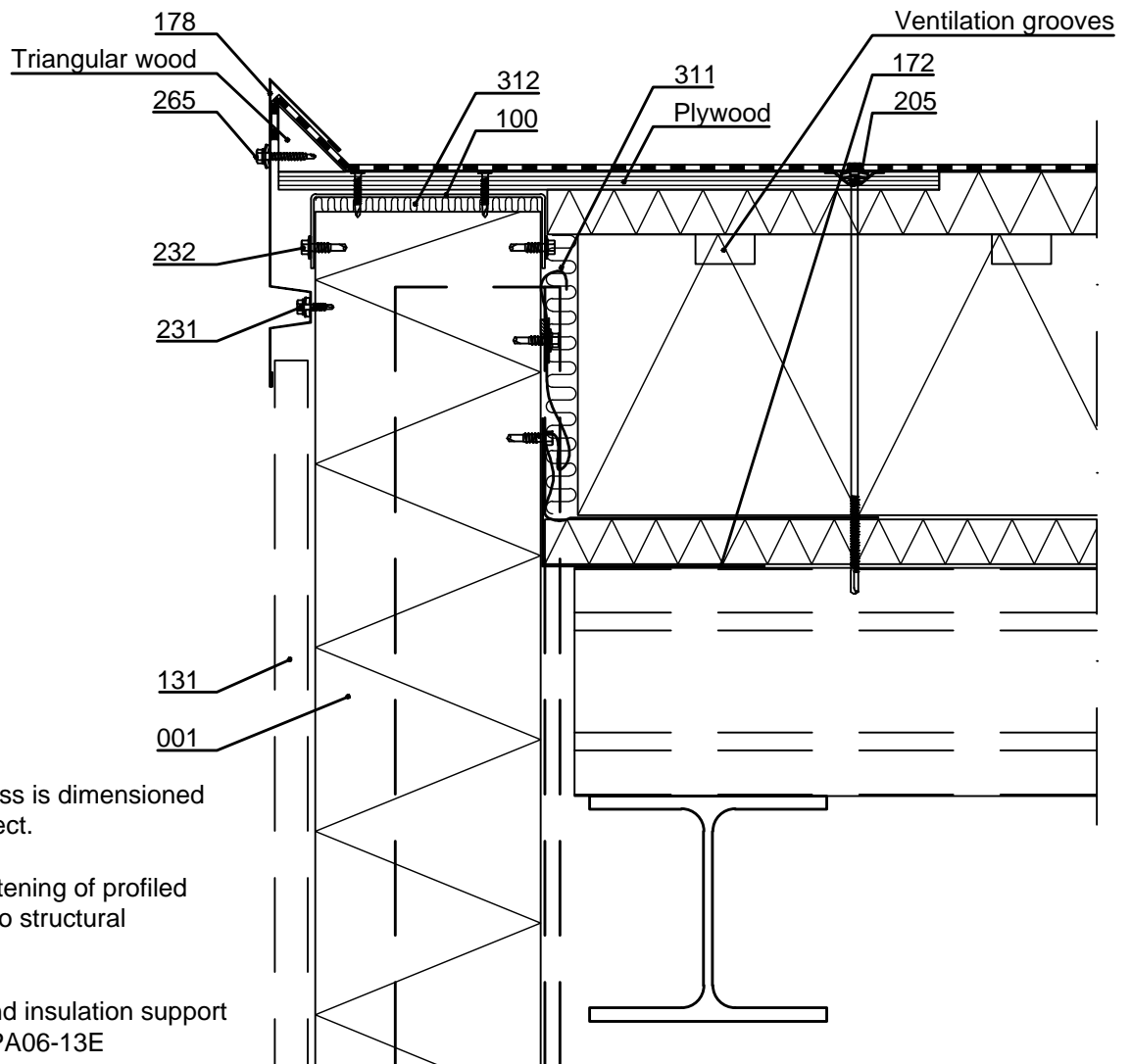
Gutters and it's brackets designed according to project.

Vapour barrier and insulation support fastening, see SPA06-13E

- ☐ 001. Sandwich panel SPA
- ☐ 102. Eave purlin, t=2mm, according to project
- ☐ 131. /EA1JV1/ Vertical joint flashing
- ☐ 169. Eave flashing, t = 0.6 mm, according to project
- ☐ 171. Insulation support flashing, t = 0.6 mm, according to project
- ☐ 174. Gutter, t = 0.6 mm, according to project
- ☐ 175. Cover flashing, t = 0.6 mm, according to project
- ☐ 176. Storm flashing, t = 0.6 mm, according to project
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 241. Fastener screw, washer with sealing
- ☐ 271. Rivet
- ☐ 311. /EAWS30565/ Mineral wool
- ☐ 312. /EAWS___/ Mineral wool band

☒ Ruukki's delivery

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA06-12E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



Insulation thickness is dimensioned according to project.

Supports and fastening of profiled sheet according to structural designer.

Vapour barrier and insulation support fastening, see SPA06-13E

- ☐ 001. Sandwich panel SPA
- ☐ 100. /EA1EPF___/ Purlin
- ☐ 131. /EA1JV1/ Vertical joint flashing
- ☐ 172. Insulation support flashing, t = 0.6 mm
- ☐ 178. Eave flashing, t = 0.6 mm, according to project
- ☐ 205. Self-drilling element screw / fastener screw for roof
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 232. Flashing fastener, without washer
- ☐ 265. Fastener screw to wood, washer with sealing
- ☐ 311. /EAWS30565/ Mineral wool
- ☐ 312. /EAWS___/ Mineral wool band

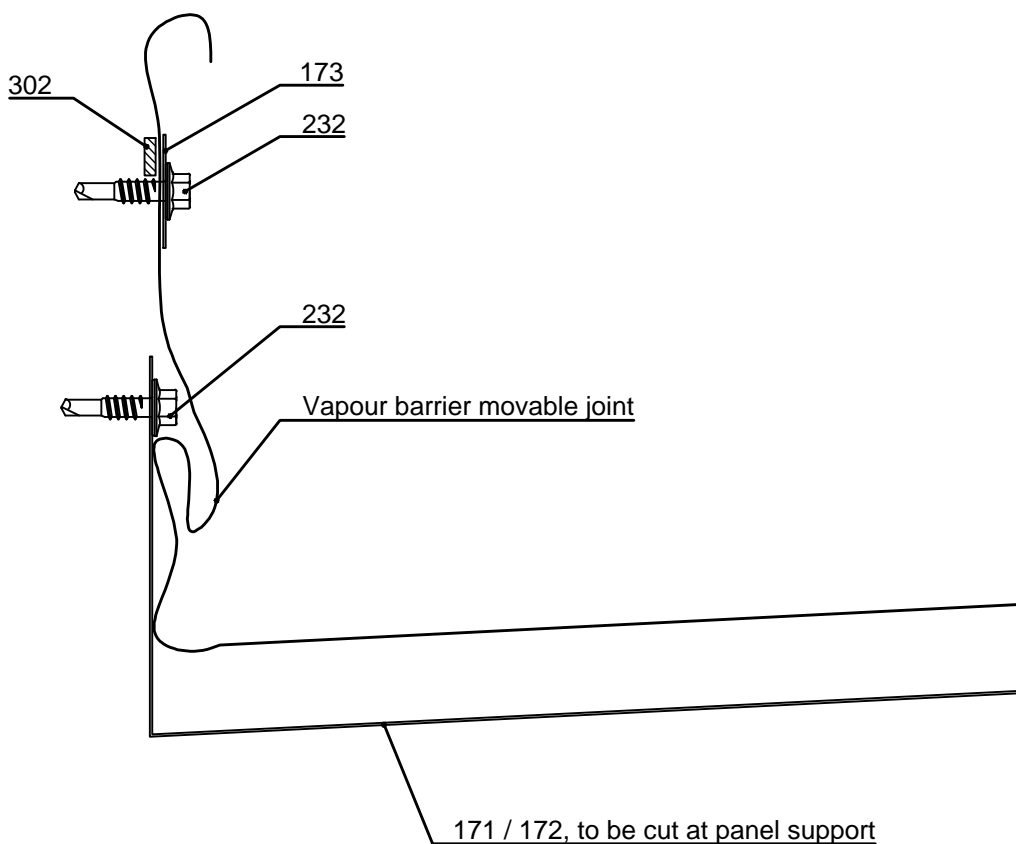
☒ Ruukki's delivery



Contents of drawing

Sandwich panel SPA, horizontal-, vertical-
and diagonal installation. Vapour barrier and
insulation support flashing fastening

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA06-13E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



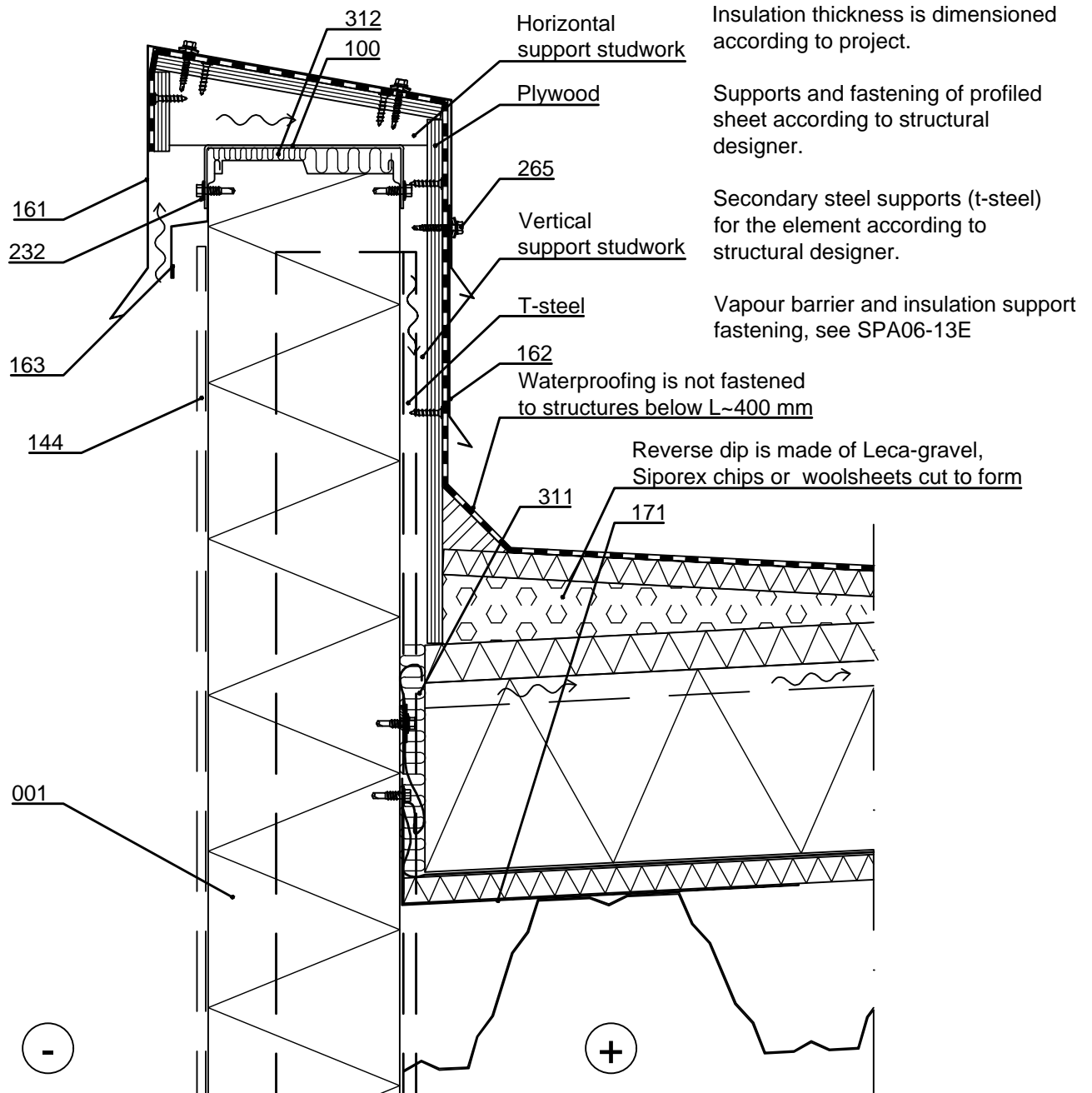
- ☐ 171. Insulation support flashing, t = 0.6 mm, according to project
- ☐ 172. Insulation support flashing, t = 0.6 mm
- ☐ 173. Flat flashing to vapour barrier fastening, t = 0.6 mm, according to project
- ☐ 232. Flashing fastener, without washer
- ☐ 302. /EA3SS410/ Sealing, between panel and vapour barrier

☒ Ruukki's delivery

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Sandwich panel SPA, horizontal installation Parapet, side eaves Invisible flashing

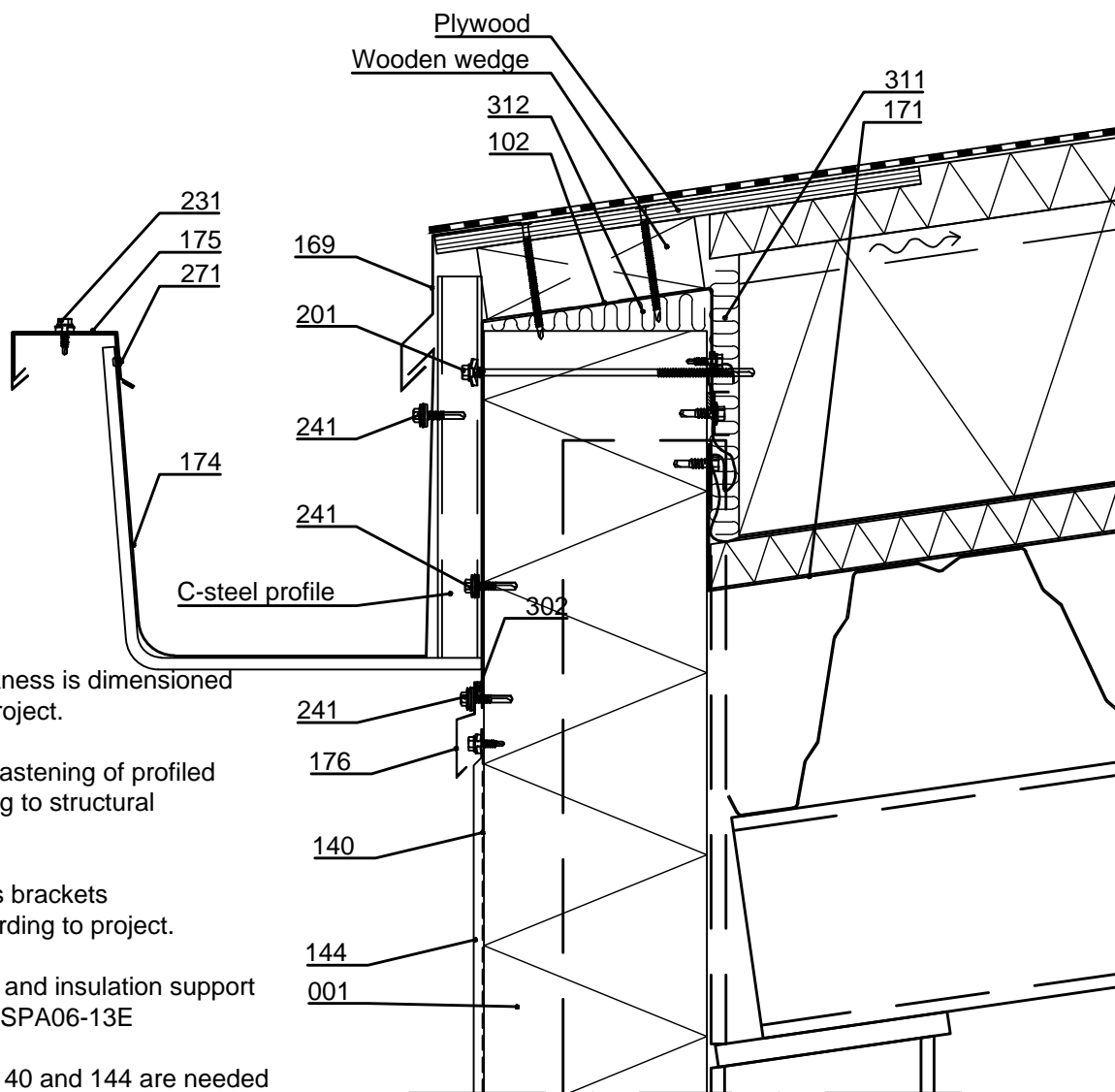
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA06-30E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



- ☐ 001. Sandwich panel SPA
- ☐ 100. /EA1EPF___/ Purlin
- ☐ 144. /EA1JVII/ Vertical joint flashing Invisible
- ☐ 161. Eave flashing, t = 0.6 mm, according to project
- ☐ 162. Cover 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, according to project
- ☐ 232. Flashing fastener, without washer
- ☐ 265. S3H55042WA4B Fastener, wood c/c600
- ☐ 311. /EAWS5657850/ Mineral wool roll
- ☐ 312. /EAWS___/ Mineral wool roll

☒ Ruukki's delivery

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA06-31E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building	File nr.	



Insulation thickness is dimensioned according to project.

Supports and fastening of profiled sheet according to structural designer.

Gutters and it's brackets designed according to project.

Vapour barrier and insulation support fastening, see SPA06-13E

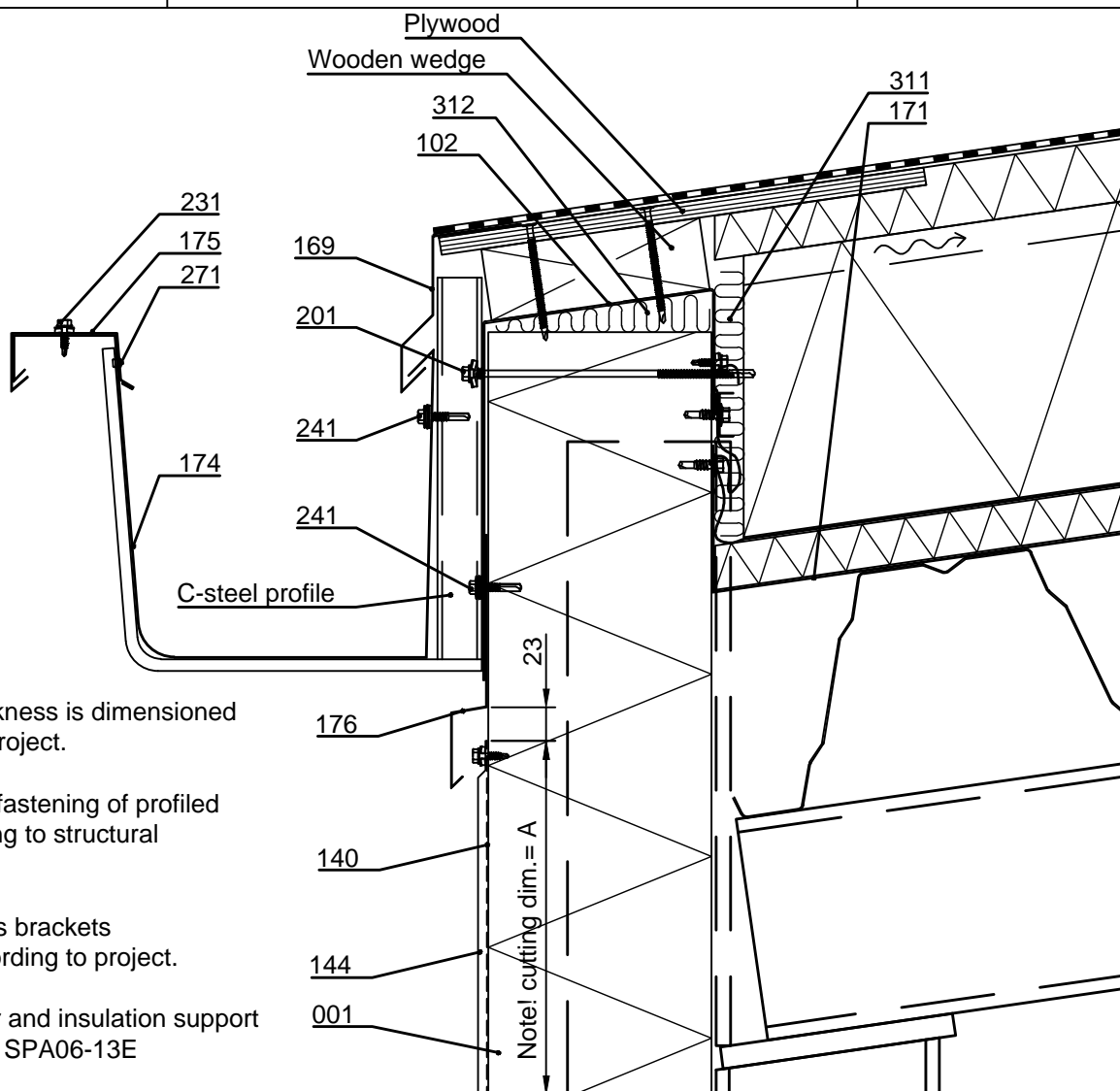
NOTE! If lists 140 and 144 are needed to shorten, then the bottom strip 140 is cut from the upper edge 180mm shorter than the shortened vertical seam strip 144.

List 144 is cut from the bottom edge (A) and the cut edge is sanded flat. Vertical seam list 144 installed from the bottom up.

- | | |
|---|--|
| <input type="checkbox"/> 001. Sandwich panel SPA | <input type="checkbox"/> 176. Storm flashing, t = 0.6 mm, according to project |
| <input type="checkbox"/> 102. Eave purlin, t = 2 mm, according to project | <input type="checkbox"/> 201. Self-drilling screw, washer with sealing |
| <input type="checkbox"/> 140. /EA1JVB4/ Vertical bottom flashing Invisible | <input type="checkbox"/> 231. Flashing fastener, washer with sealing |
| <input type="checkbox"/> 144. /EA1JVII/ Vertical joint flashing Invisible | <input type="checkbox"/> 241. Fastener screw, washer with sealing |
| <input type="checkbox"/> 169. Eave flashing, t = 0.6 mm, according to project | <input type="checkbox"/> 271. Rivet |
| <input type="checkbox"/> 171. Insulation support fl., t = 0.6 mm, acc. to project | <input type="checkbox"/> 302. /EA3SS410/ Sealing strip |
| <input type="checkbox"/> 174. Gutter, t = 0.6 mm, according to project | <input type="checkbox"/> 311. /EAWS5657850/ Mineral wool roll |
| <input type="checkbox"/> 175. Cover flashing, t = 0.6 mm, according to project | <input type="checkbox"/> 312. /EAWS___/ Mineral wool roll |

☒ Ruukki's delivery

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA06-32E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building	File nr.	



Insulation thickness is dimensioned according to project.

Supports and fastening of profiled sheet according to structural designer.

Gutters and it's brackets designed according to project.

Vapour barrier and insulation support fastening, see SPA06-13E

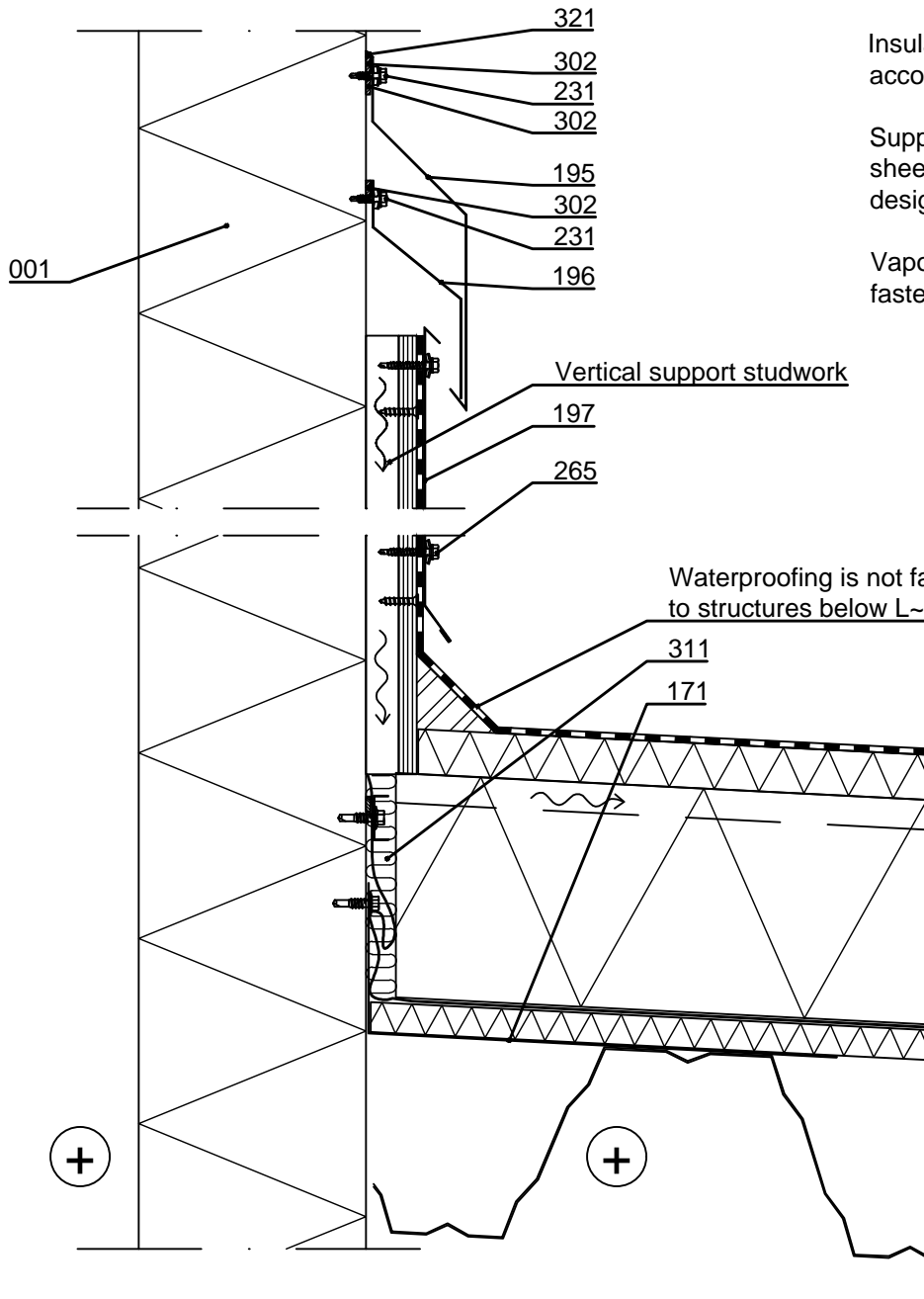
NOTE! If lists 140 and 144 are needed to shorten, then the bottom strip 140 is cut from the upper edge 180mm shorter than the shortened vertical seam strip 144. List 144 is cut from the bottom edge (A) and the cut edge is sanded flat. Vertical seam list 144 installed from the bottom up.

- | | |
|---|--|
| <input type="checkbox"/> 001. Sandwich panel SPA | <input type="checkbox"/> 176. Storm flashing, t = 0.6 mm, according to project |
| <input type="checkbox"/> 102. Eave purlin, t = 2 mm, according to project | <input type="checkbox"/> 201. Self-drilling screw, washer with sealing |
| <input type="checkbox"/> 140. /EA1JVB4/ Vertical bottom flashing Invisible | <input type="checkbox"/> 231. Flashing fastener, washer with sealing |
| <input type="checkbox"/> 144. /EA1JVII/ Vertical joint flashing Invisible | <input type="checkbox"/> 241. Fastener screw, washer with sealing |
| <input type="checkbox"/> 169. Eave flashing, t = 0.6 mm, according to project | <input type="checkbox"/> 271. Rivet |
| <input type="checkbox"/> 171. Insulation support fl., t = 0.6 mm, acc. to project | <input type="checkbox"/> 302. /EA3SS410/ Sealing strip |
| <input type="checkbox"/> 174. Gutter, t = 0.6 mm, according to project | <input type="checkbox"/> 311. /EAWS5657850/ Mineral wool roll |
| <input type="checkbox"/> 175. Cover flashing, t = 0.6 mm, according to project | <input type="checkbox"/> 312. /EAWS___/ Mineral wool roll |

☒ Ruukki's delivery

Sandwich panel SPA, horizontal installation
Uplifted roofing, vertical section

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA07-1E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



Insulation thickness is dimensioned according to project.

Supports and fastening of profiled sheet according to structural designer.

Vapour barrier and insulation support fastening, see SPA06-13E

Vertical support studwork

Waterproofing is not fastened to structures below L~400 mm

- ☐ 001. Sandwich panel SPA
- ☐ 171. Insulation support flashing, t = 0.6 mm, according to project
- ☐ 195. Drip flashing, t = 0.6 mm, according to project
- ☐ 196. Support flashing, t = 0.6 mm, according to project
- ☐ 197. Cover flashing, t = 0.6 mm, according to project
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 265. Fastener screw to wood, washer with sealing
- ☐ 302. /EA3SS410/ Sealing strip /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)
- ☐ 311. /EAWS30565/ Mineral wool
- ☐ 321. Ruukki silicone

☒ Ruukki's delivery



Contents of drawing

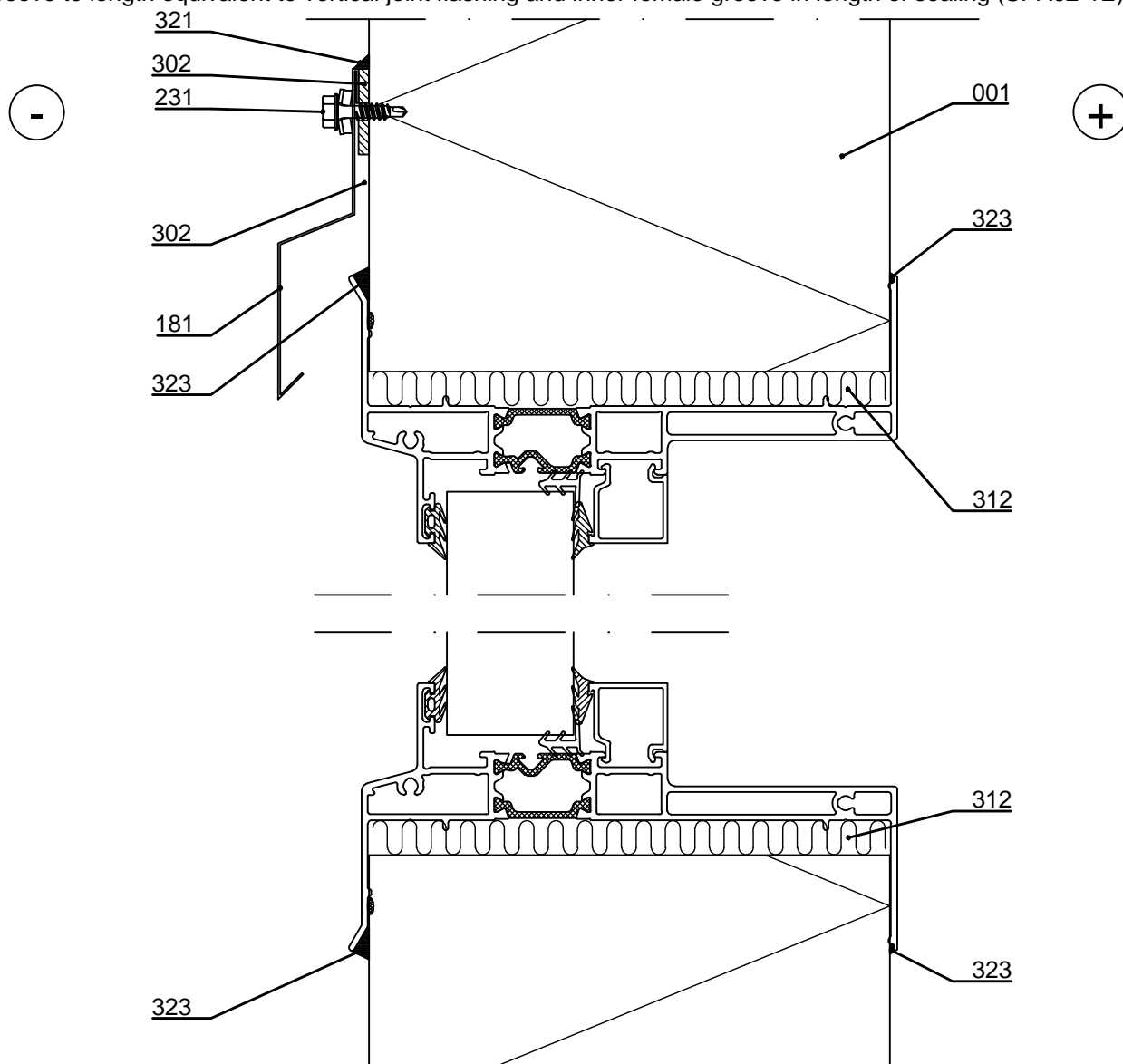
Sandwich panel SPA, horizontal installation
System window, vertical section
Small window

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA08-1E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building	File nr.	

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

Note! System window is installed during installation of elements. Fastening according to window manufacturers instructions.

Note! Remember to seal the grooves of the elements joining the window during the installation with sealant to outer female groove to length equivalent to vertical joint flashing and inner female groove in length of sealing (SPA02-1E).



- | | |
|--|---|
| <input type="checkbox"/> 001. Sandwich panel SPA | <input type="checkbox"/> 312. /EAWS___/ Mineral wool band |
| <input type="checkbox"/> 181. Drip flashing, t = 0.6 mm, according to project | <input type="checkbox"/> 321. Ruukki silicone |
| <input type="checkbox"/> 231. Flashing fastener, washer with sealing | <input type="checkbox"/> 323. Ruukki silicone |
| <input type="checkbox"/> 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas) | |

☒ Ruukki's delivery

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Contents of drawing

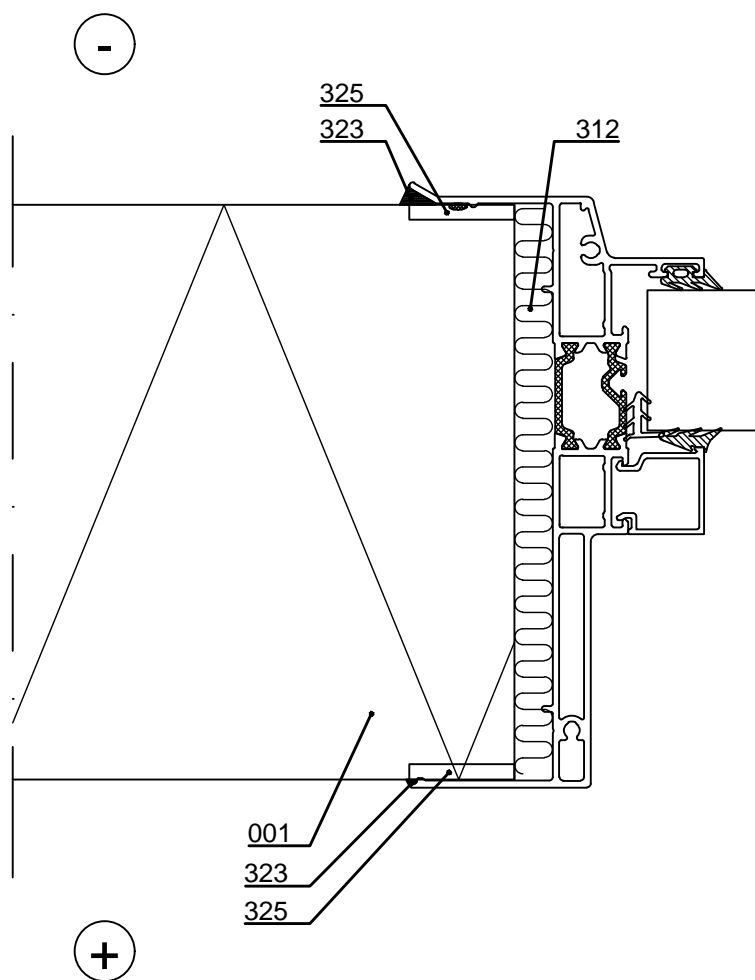
Sandwich panel SPA, horizontal installation
System window, horizontal section
Small window

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA08-2E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

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

Note! System window is installed during installation of elements. Fastening according to window manufacturers instructions.

Note! Remember to seal the grooves of the elements joining the window during the installation with sealant to outer female groove to length equivalent to vertical joint flashing and inner female groove in length of sealing (SPA02-1E).



- ☐ 001. Sandwich panel SPA
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 323. Ruukki silicone
- ☐ 325. Ruukki silicone
during installation to outer and inner female grooves

☒ Ruukki's delivery

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Contents of drawing

Sandwich panel SPA, horizontal installation
System window, vertical section
Large window, supporting structure

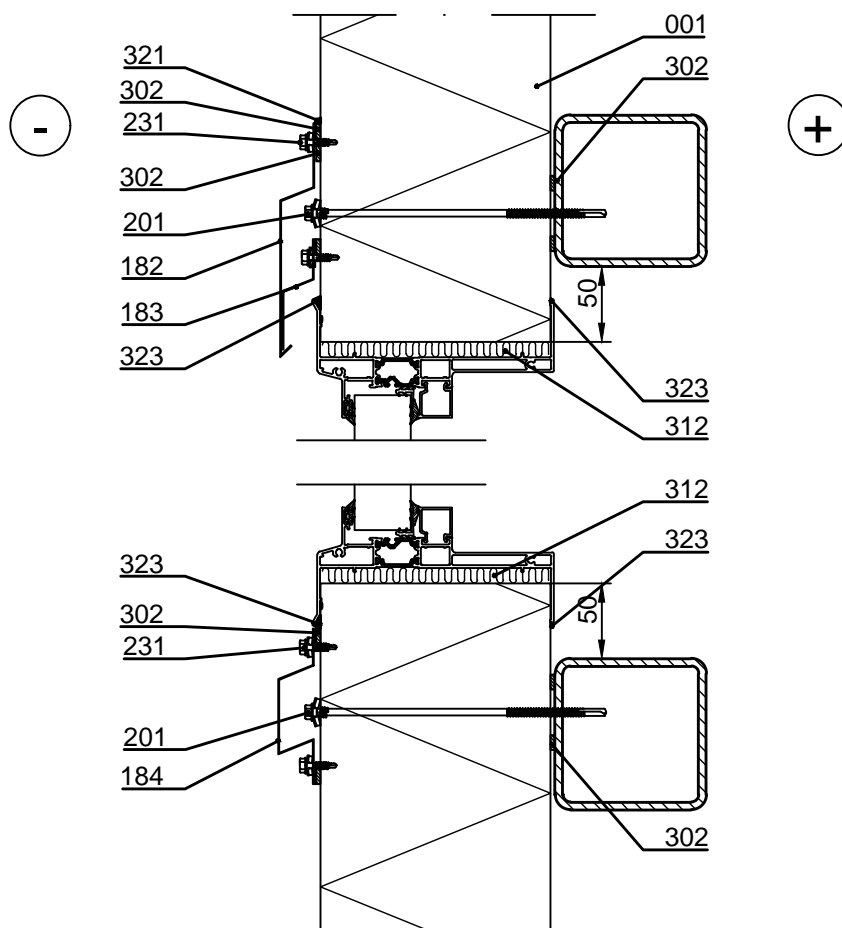
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA08-3E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

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

Note! System window is installed during installation of elements. Fastening according to window manufacturers instructions.

Note! Remember to seal the grooves of the elements joining the window during the installation with sealant to outer female groove to length equivalent to vertical joint flashing and inner female groove in length of sealing (SPA02-1E).

Supporting structures according to structural designer.



- | | |
|--|--|
| <input type="checkbox"/> 001. Sandwich panel SPA | <input type="checkbox"/> 302. /EA3SS410/ Sealing strip |
| <input type="checkbox"/> 182. Drip flashing, t = 0.6 mm, according to project | <input type="checkbox"/> /EA3SS510/ Sealing band EPDM for flashing |
| <input type="checkbox"/> 183. Storm flashing, t = 0.6 mm, according to project | <input type="checkbox"/> (for demanding climate conditions e.g. coastal areas) |
| <input type="checkbox"/> 184. Cover flashing, t = 0.6 mm, according 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. Ruukki silicone |
| <input type="checkbox"/> 231. Flashing fastener, washer with sealing | <input type="checkbox"/> 323. Ruukki silicone |

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Contents of drawing

Sandwich panel SPA, horizontal installation
System window, horizontal section
Large window, supporting structure

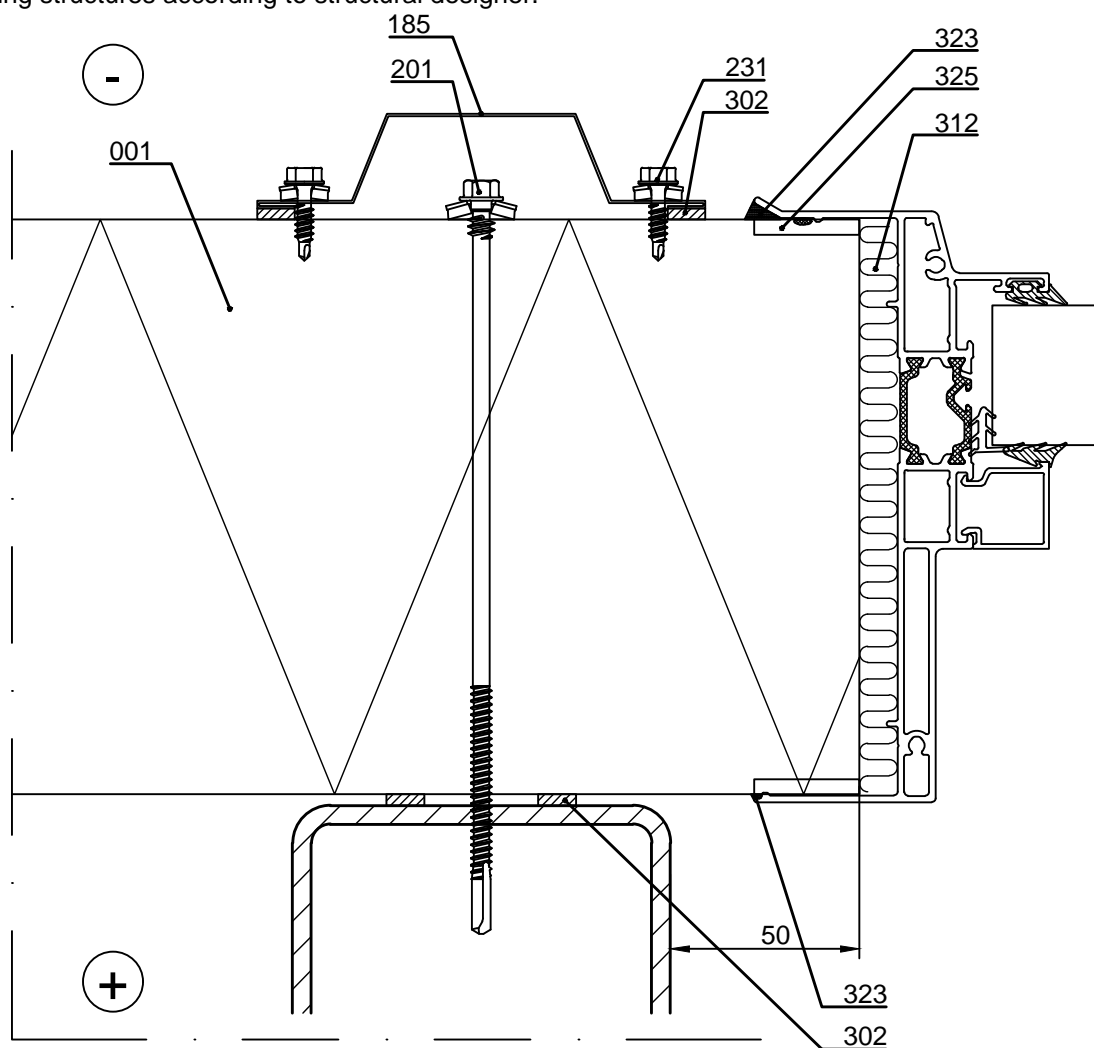
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA08-4E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

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

Note! System window is installed during installation of elements. Fastening according to window manufacturers instructions.

Note! Remember to seal the grooves of the elements joining the window during the installation with sealant to outer female groove to length equivalent to vertical joint flashing and inner female groove in length of sealing (SPA02-1E).

Supporting structures according to structural designer.



- ☐ 001. Sandwich panel SPA
- ☐ 185. Cover flashing, $t = 0.6$ mm, according to project
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 323. Ruukki silicone
- ☐ 325. Ruukki silicone
to outer and inner female grooves

☒ Ruukki's delivery

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Contents of drawing

Sandwich panel SPA, horizontal installation
Window, vertical section

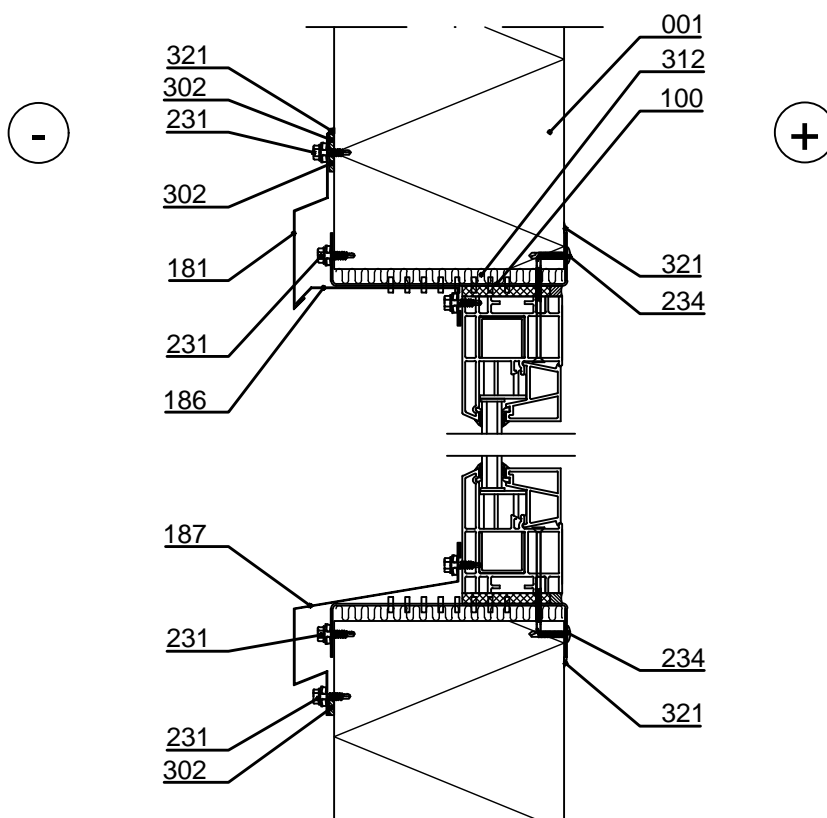
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA08-5E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

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 sealant to outer female groove to length equivalent to vertical joint flashing and inner female groove in length of sealing (SPA02-1E).

Supporting structures, if necessary, according to structural designer (SPA08-3E).



- | | |
|--|--|
| <input type="checkbox"/> 001. Sandwich panel SPA | <input type="checkbox"/> 234. Flat head flashing fastener |
| <input type="checkbox"/> 100. /EA1W___/ Window frame stud | <input type="checkbox"/> 302. /EA3SS410/ Sealing strip |
| <input type="checkbox"/> 181. Drip flashing, t = 0.6 mm, according to project | <input type="checkbox"/> /EA3SS510/ Sealing band EPDM for flashing |
| <input type="checkbox"/> 186. Support- / cover flashing, t = 0.6 mm, acc. to project | <input type="checkbox"/> (for demanding climate conditions e.g. coastal areas) |
| <input type="checkbox"/> 187. External window sill, t = 0.6 mm, acc. to project | <input type="checkbox"/> 312. /EAWS___/ Mineral wool band |
| <input type="checkbox"/> 231. Flashing fastener, washer with sealing | <input type="checkbox"/> 321. Ruukki silicone |

☒ Ruukki's delivery

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Contents of drawing

Sandwich panel SPA, horizontal installation
Window, horizontal section

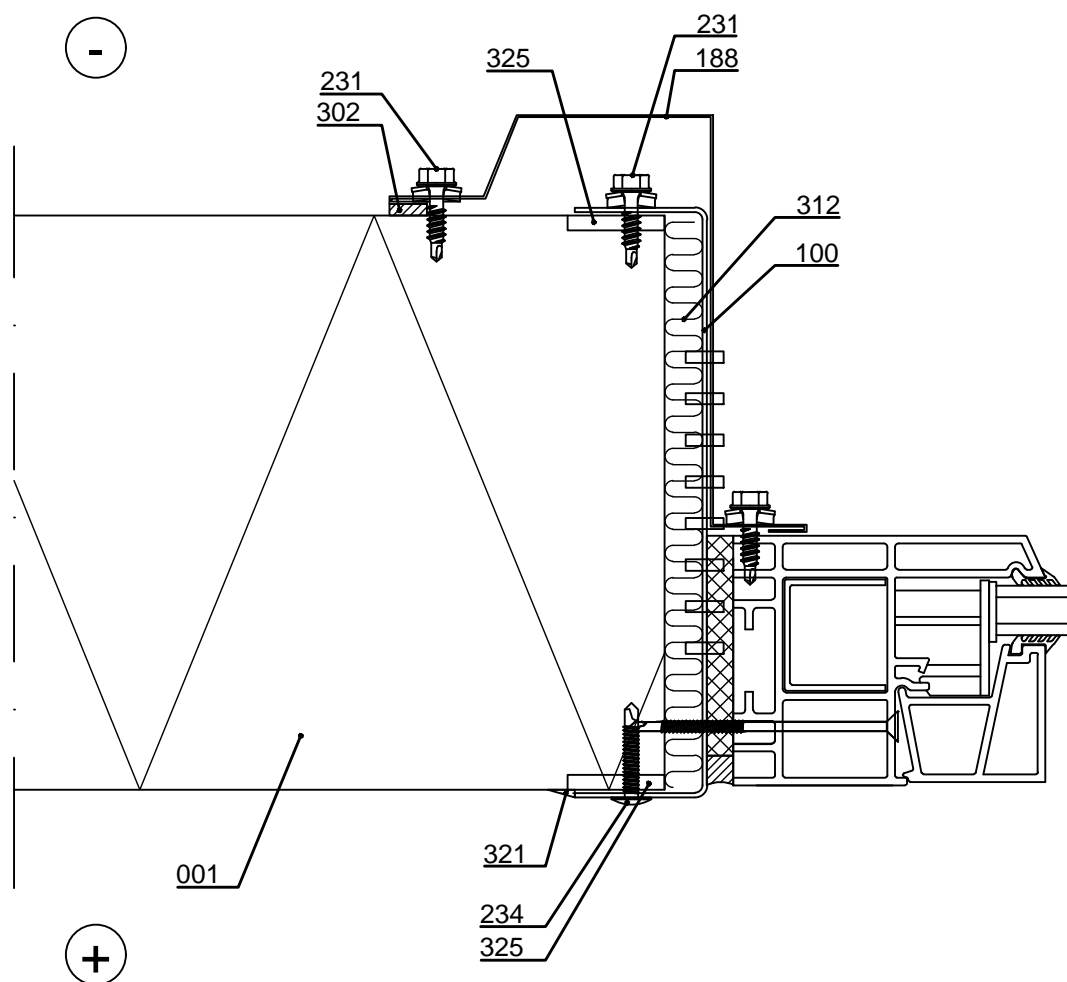
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA08-6E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

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 sealant to outer female groove to length equivalent to vertical joint flashing and inner female groove in length of sealing (SPA02-1E).

Supporting structures, if necessary, according to structural designer (SPA08-4E).



- ☐ 001. Sandwich panel SPA
- ☐ 100. /EA1W___/ Window frame stud
- ☐ 188. Cover flashing, t = 0.6 mm, according to project
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 234. Flat head flashing fastener
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 321. Ruukki silicone
- ☐ 325. Ruukki silicone
to outer and inner female grooves

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Contents of drawing

Sandwich panel SPA, horizontal installation
Window, vertical section
Invisible flashing

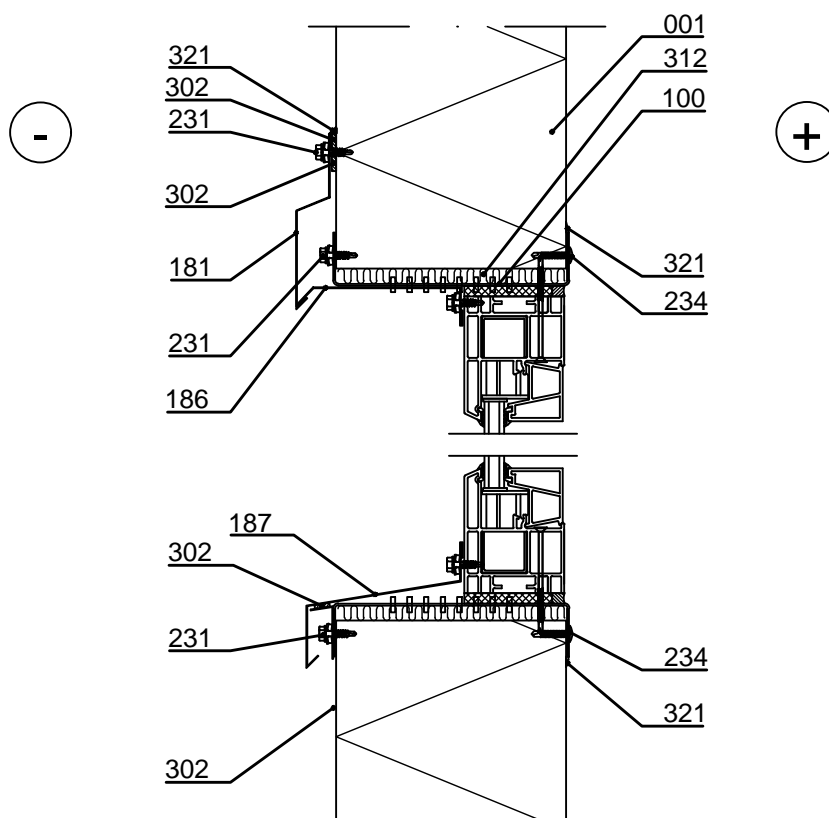
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA08-30E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

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 sealant to outer female groove to length equivalent to vertical joint flashing and inner female groove in length of sealing (SPA02-1E).

Supporting structures, if necessary, according to structural designer (SPA08-3E).



- | | |
|--|---|
| <input type="checkbox"/> 001. Sandwich panel SPA | <input type="checkbox"/> 234. /S1E42013GE/ Flat head flashing fastener |
| <input type="checkbox"/> 100. /EA1W___/ Window frame stud | <input type="checkbox"/> 302. /EA3SS410/ Sealing strip |
| <input type="checkbox"/> 181. Drip flashing, t = 0.6 mm, according to project | <input type="checkbox"/> /EA3SS510/ Sealing band EPDM for flashing |
| <input type="checkbox"/> 186. Support- / cover flashing, t = 0.6 mm, acc. to project | <input type="checkbox"/> (for demanding climate conditions e.g. coastal areas)" |
| <input type="checkbox"/> 187. External window sill, t = 0.6 mm, acc. to project | <input type="checkbox"/> 312. /EAWS5657850/ Mineral wool roll |
| <input type="checkbox"/> 231. Flashing fastener, washer with sealing | <input type="checkbox"/> 321. Ruukki silicone |

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Contents of drawing

Sandwich panel SPA, horizontal installation
Window, horizontal section
Invisible flashing

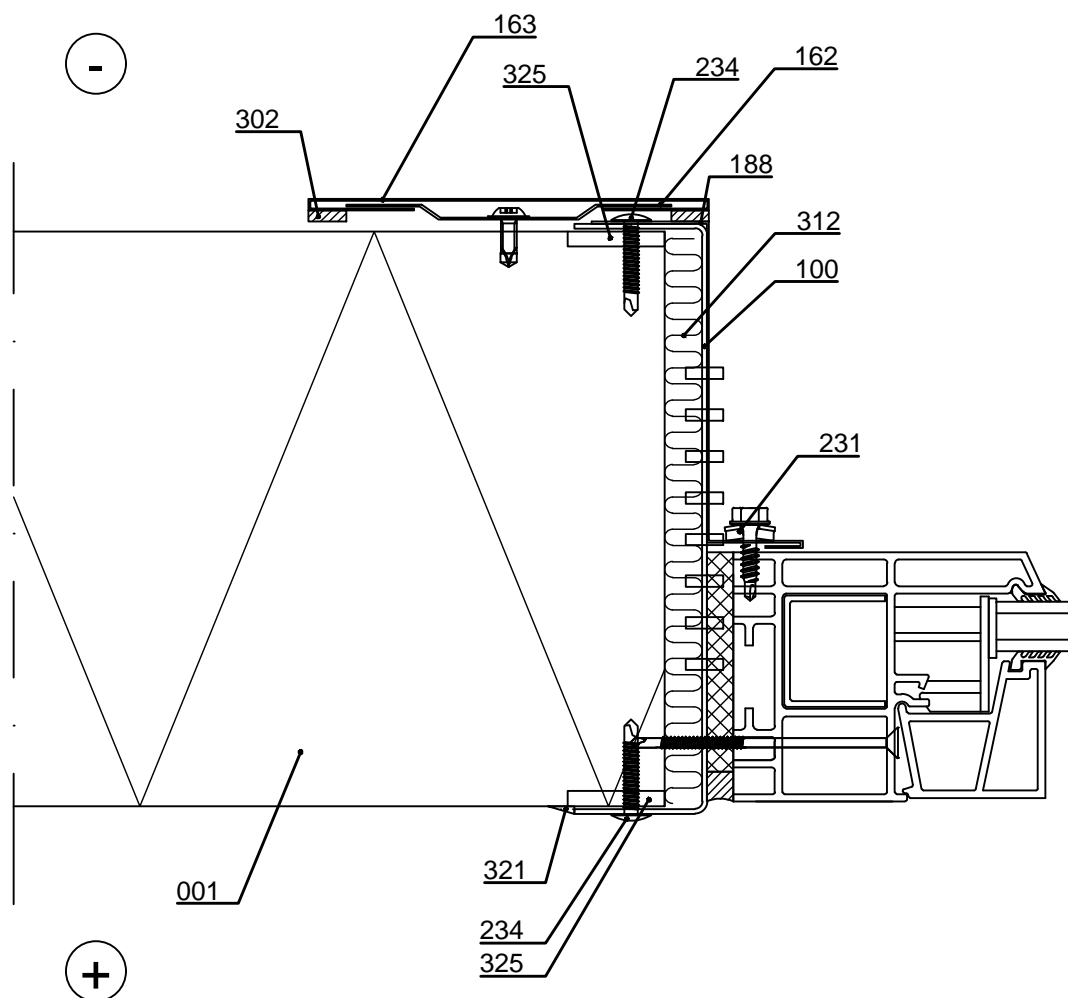
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA08-31E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building	File nr.	

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 sealant to outer female groove to length equivalent to vertical joint flashing and inner female groove in length of sealing (SPA02-1E).

Supporting structures, if necessary, according to structural designer (SPA08-4E).



- | | |
|--|---|
| <input type="checkbox"/> 001. Sandwich panel SPA | <input type="checkbox"/> 302. /EA3SS410/ Sealing strip |
| <input type="checkbox"/> 100. /EA1W___/ Window frame stud | <input type="checkbox"/> /EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas) |
| <input type="checkbox"/> 162. /EA1WXBI/ Window bottom flashing Invisible | <input type="checkbox"/> 312. /EAWS___/ Mineral wool roll |
| <input type="checkbox"/> 163. /EA1WEI/ Window flashing Invisible | <input type="checkbox"/> 321. Ruukki silicone |
| <input type="checkbox"/> 188. Cover flashing, t = 0.6 mm, according to project | <input type="checkbox"/> 325. Ruukki silicone |
| <input type="checkbox"/> 231. Flashing fastener, washer with sealing | <input type="checkbox"/> during installation to outer- and inner groove |
| <input type="checkbox"/> 234. /S1E42013G___/ Flat head flashing fastener | |

☒ Ruukki's delivery

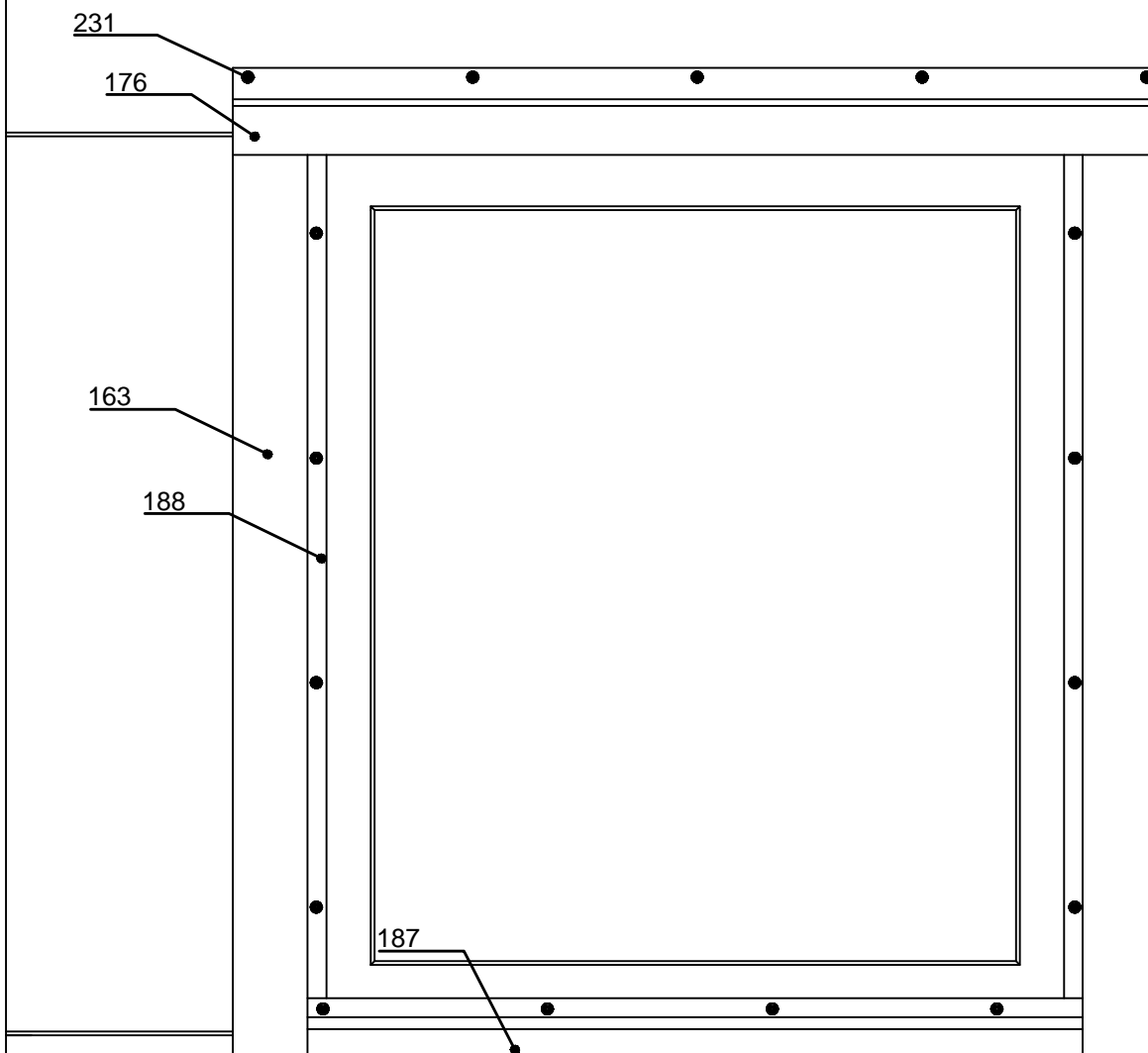
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Contents of drawing

Sandwich panel SPA, horizontal installation
Window
Invisible flashing

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA08-32E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.



- ☐ 163. /EA1WEI/ Window flashing Invisible
- ☐ 176. Drip flashing, t = 0.6 mm, according to project
- ☐ 187. External window sill, t = 0.6 mm, according to project
- ☐ 188. Cover flashing, t = 0.6 mm, according to project
- ☐ 231. Flashing fastener, washer with sealing

☒ Ruukki's delivery

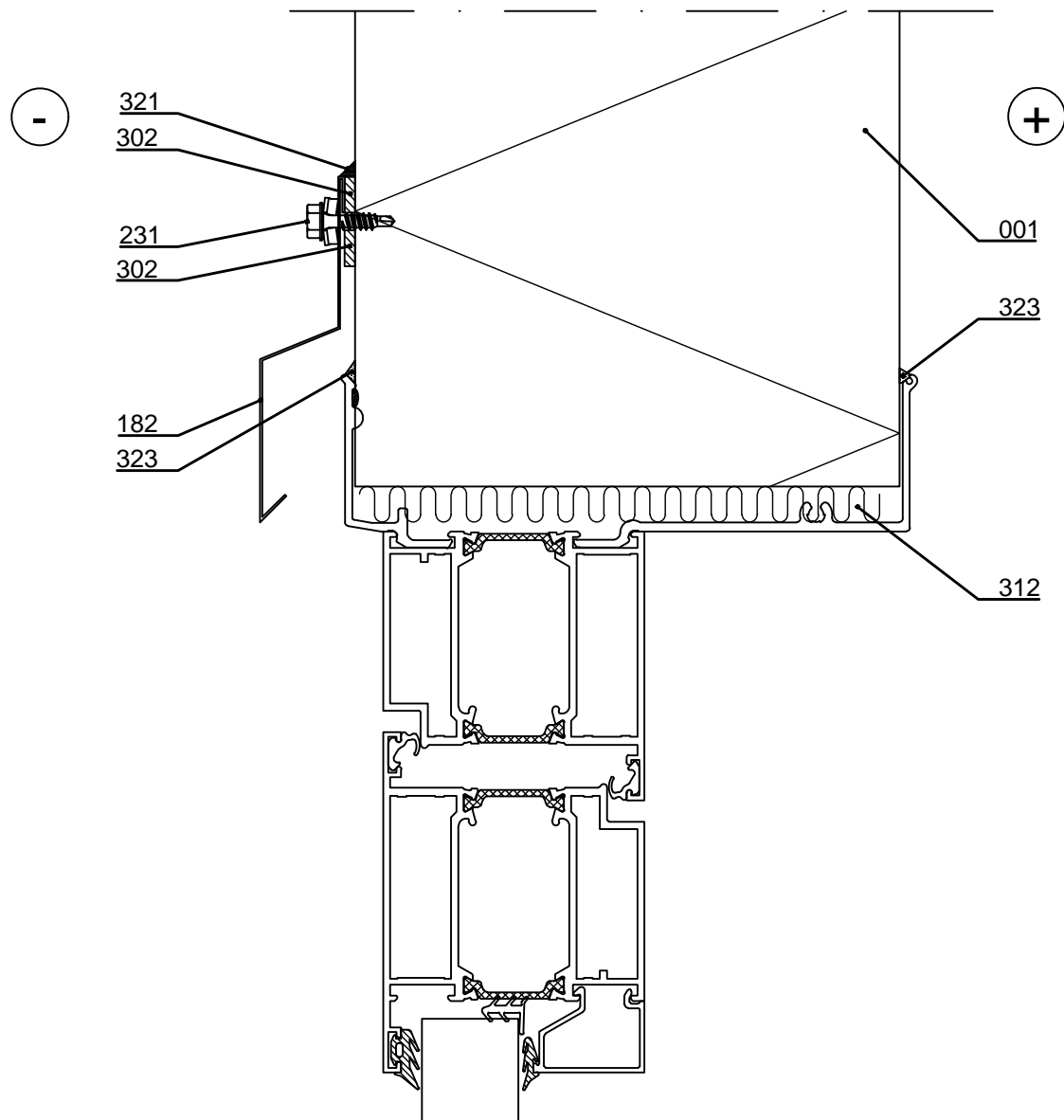
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Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA09-1E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

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

Note! System door is installed during installation of elements. Fastening according to door manufacturers instructions.

Note! Remember to seal the grooves of the elements joining the door during the installation with sealant to outer female groove to length equivalent to vertical joint flashing and inner female groove in length of sealing (SPA02-1E).



- | | |
|--|---|
| <input type="checkbox"/> 001. Sandwich panel SPA | <input type="checkbox"/> 312. /EAWS___/ Mineral wool band |
| <input type="checkbox"/> 182. Drip flashing, t = 0.6 mm, according to project | <input type="checkbox"/> 321. Ruukki silicone |
| <input type="checkbox"/> 231. Flashing fastener, washer with sealing | <input type="checkbox"/> 323. Ruukki silicone |
| <input type="checkbox"/> 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas) | |

☒ Ruukki's delivery



Contents of drawing

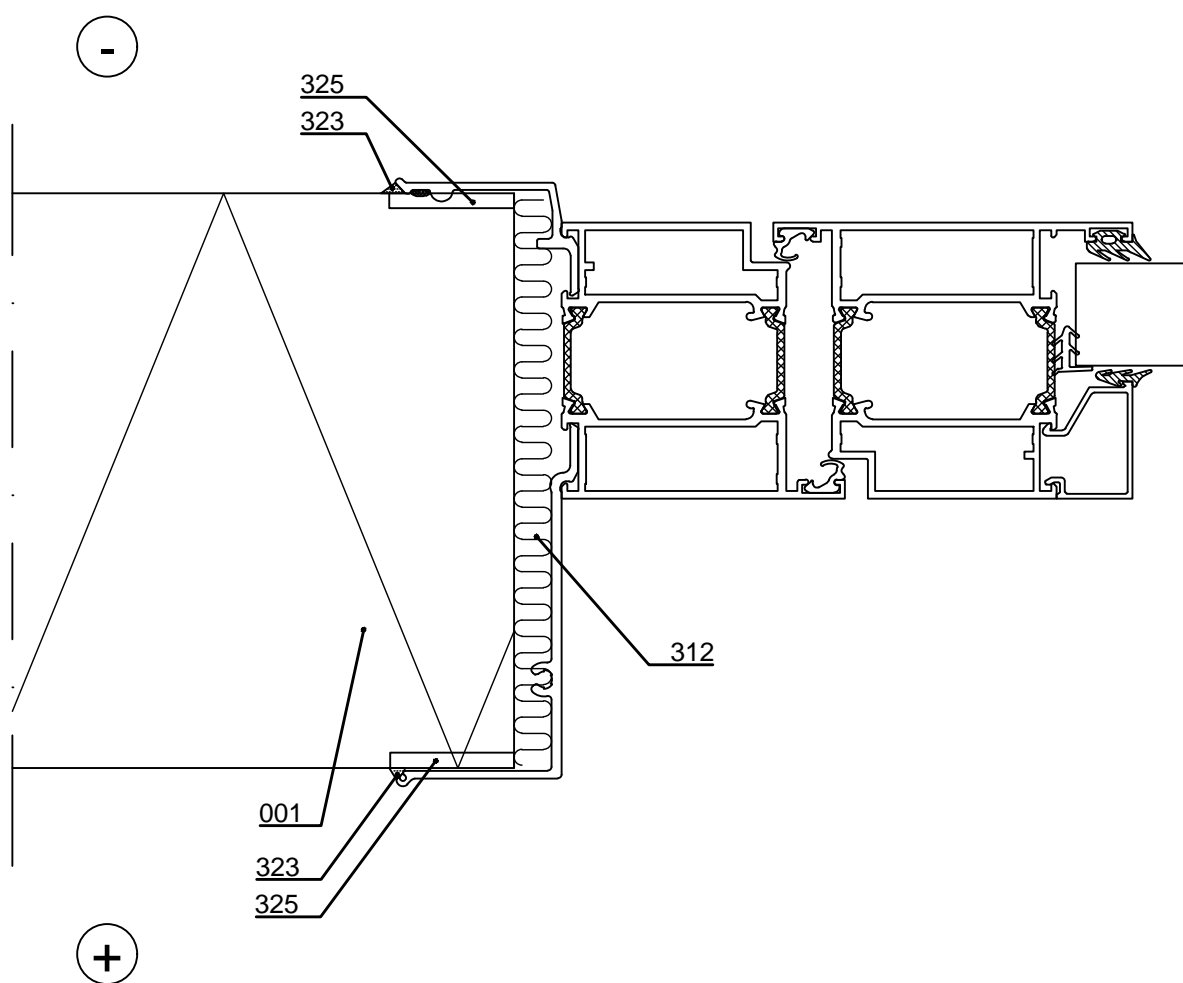
Sandwich panel SPA, horizontal installation
System door, horizontal section
Single door

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA09-2E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

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

Note! System door is installed during installation of elements. Fastening according to door manufacturers instructions.

Note! Remember to seal the grooves of the elements joining the door during the installation with sealant to outer female groove to length equivalent to vertical joint flashing and inner female groove in length of sealing (SPA02-1E).



- ☐ 001. Sandwich panel SPA
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 323. Ruukki silicone
- ☐ 325. Ruukki silicone
during installation to outer and inner female grooves

☒ Ruukki's delivery

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Contents of drawing

Sandwich panel SPA, horizontal installation
System door, vertical section
Double door, supporting structure

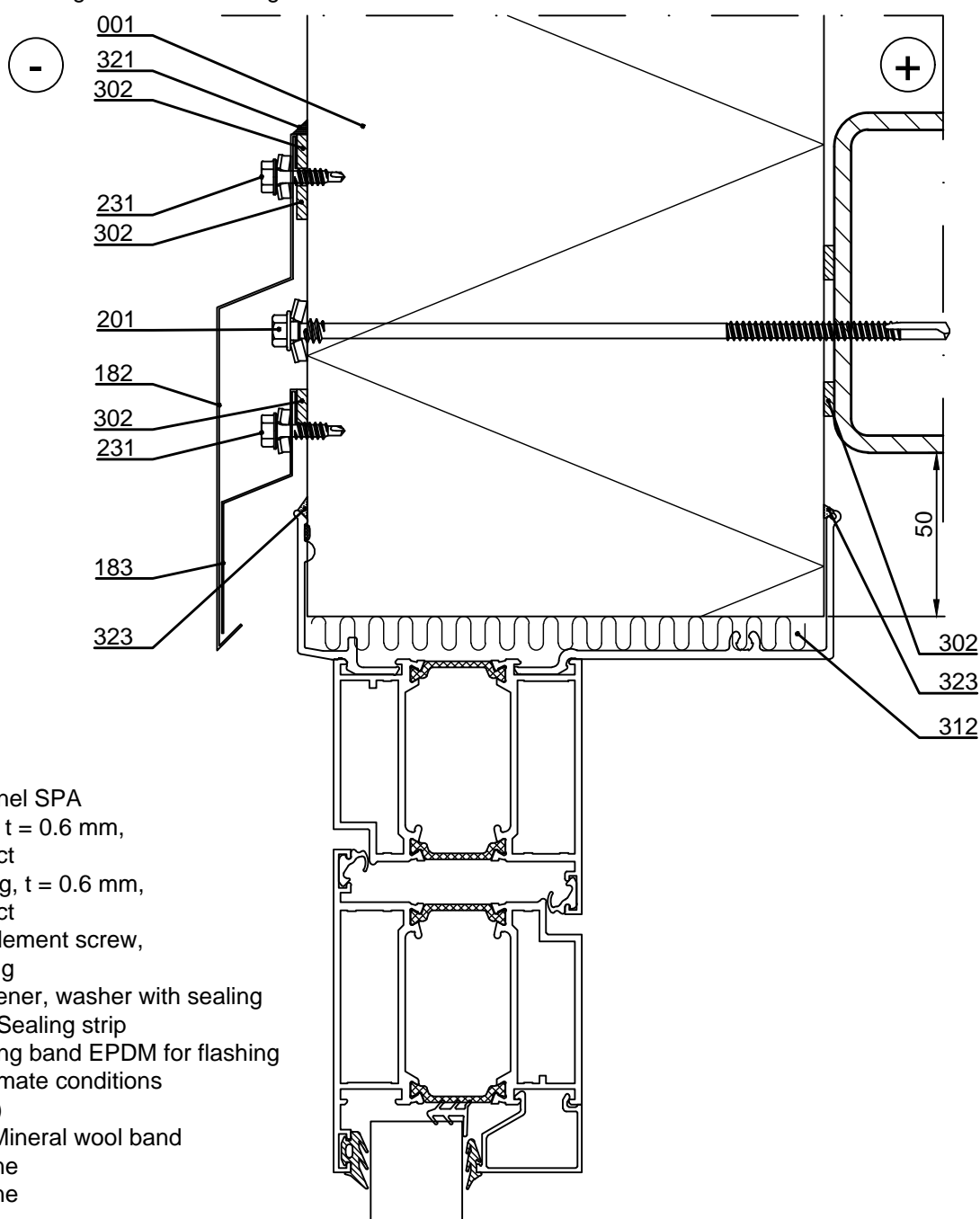
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA09-3E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

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

Note! System door is installed during installation of elements. Fastening according to door manufacturers instructions.

Note! Remember to seal the grooves of the elements joining the door during the installation with sealant to outer female groove to length equivalent to vertical joint flashing and inner female groove in length of sealing (SPA02-1E).

Supporting structures according to structural designer.



- ☐ 001. Sandwich panel SPA
- ☐ 182. Drip flashing, $t = 0.6$ mm, according to project
- ☐ 183. Storm flashing, $t = 0.6$ mm, according to project
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 321. Ruukki silicone
- ☐ 323. Ruukki silicone

☒ Ruukki's delivery

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Contents of drawing

Sandwich panel SPA, horizontal installation
System door, horizontal section
Double door, supporting structure

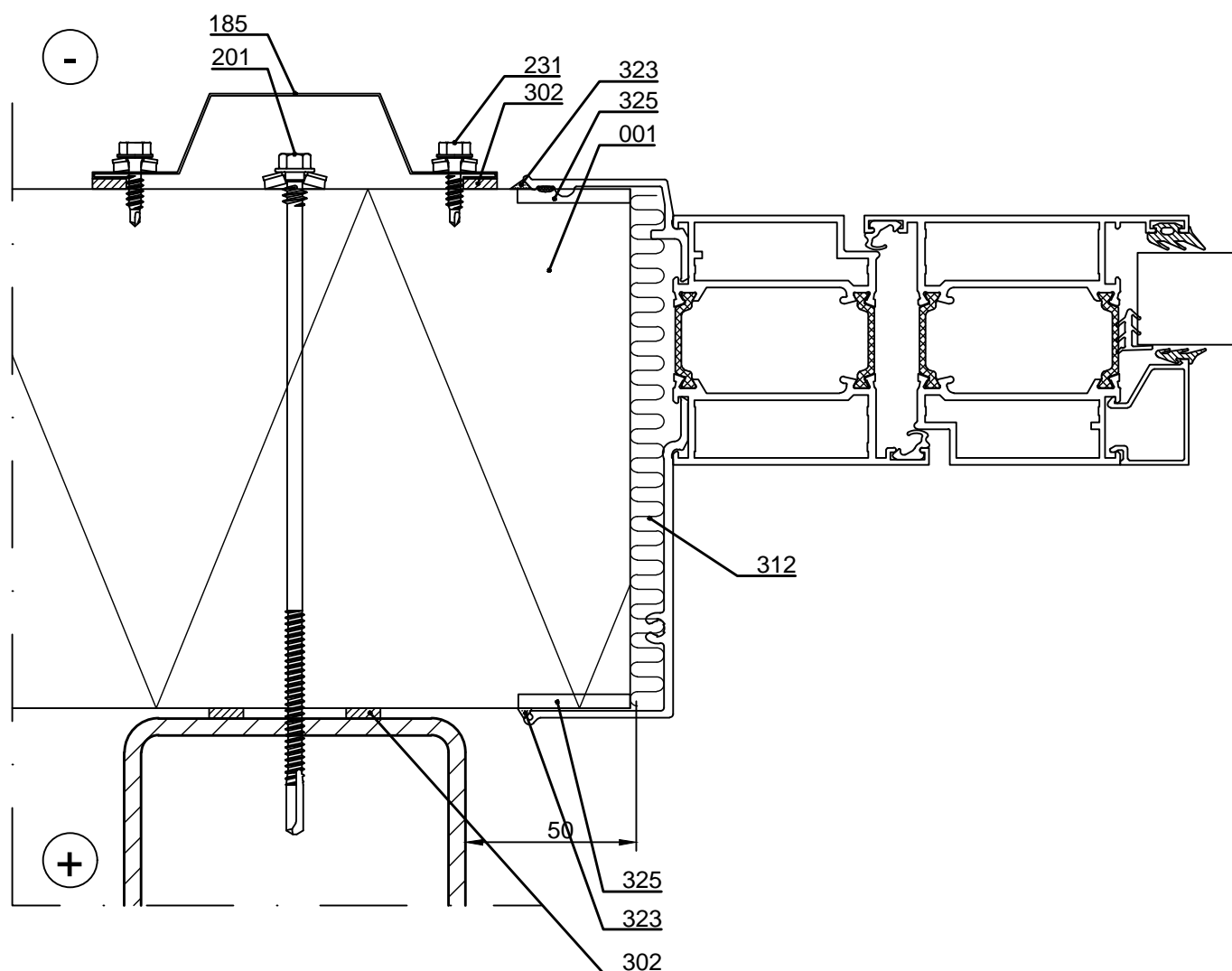
Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA09-4E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

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

Note! System door is installed during installation of elements. Fastening according to door manufacturers instructions.

Note! Remember to seal the grooves of the elements joining the door during the installation with sealant to outer female groove to length equivalent to vertical joint flashing and inner female groove in length of sealing (SPA02-1E).

Supporting structures according to structural designer.



- | | |
|--|---|
| <input type="checkbox"/> 001. Sandwich panel SPA | <input type="checkbox"/> 312. /EAWS___/ Mineral wool band |
| <input type="checkbox"/> 185. Cover flashing, t = 0.6 mm, according to project | <input type="checkbox"/> 323. Ruukki silicone |
| <input type="checkbox"/> 201. Self-drilling element screw, washer with sealing | <input type="checkbox"/> 325. Ruukki silicone |
| <input type="checkbox"/> 231. Flashing fastener, washer with sealing | to outer and inner female grooves |
| <input type="checkbox"/> 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas) | |

☒ Ruukki's delivery

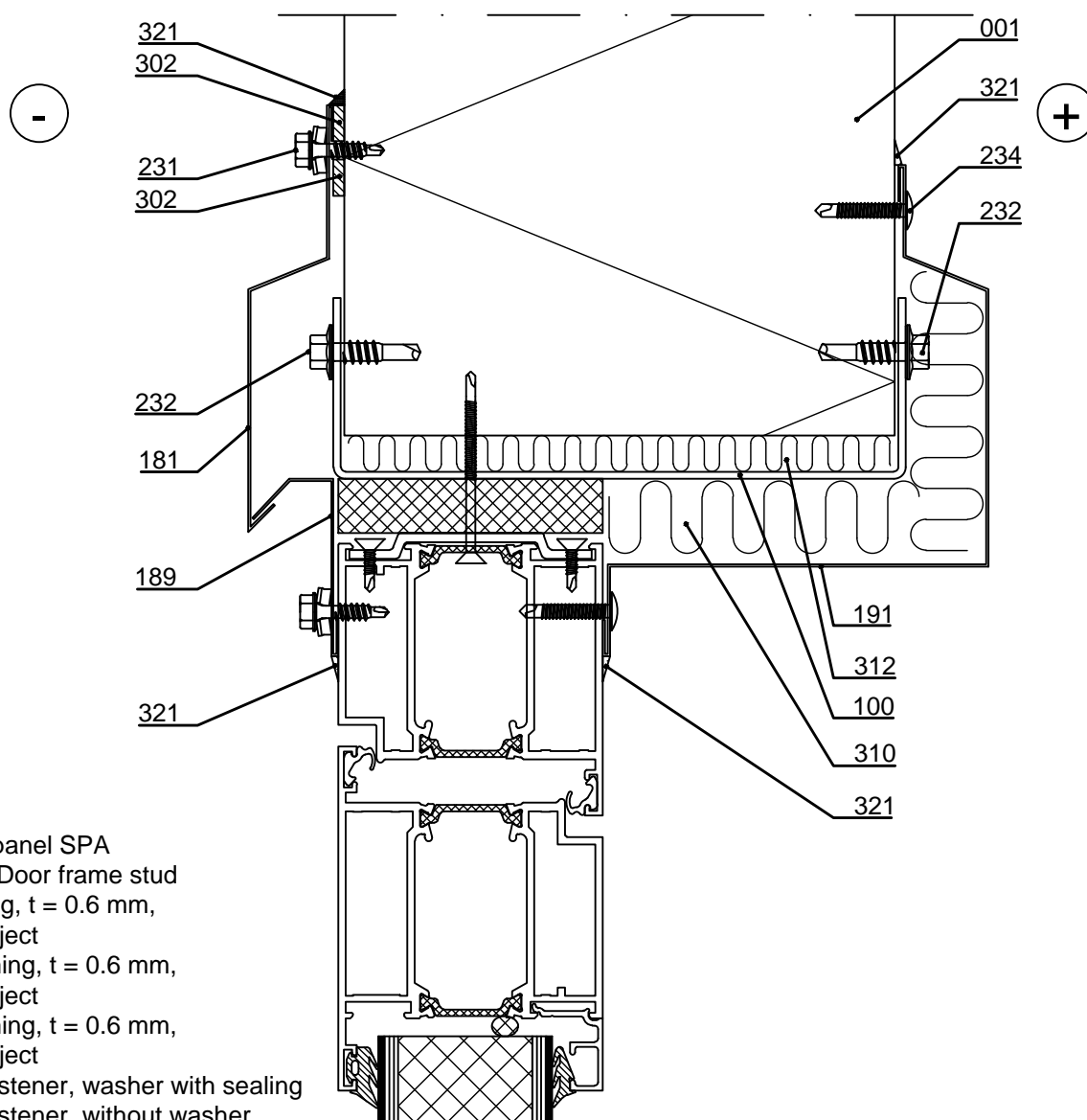
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Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA09-5E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building	File nr.	

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

Note! Remember to seal the grooves of the elements joining the door during the installation with sealant to outer female groove to length equivalent to vertical joint flashing and inner female groove in length of sealing (SPA02-1E).

Supporting structures, if necessary, according to structural designer (SPA09-3E).



- ☐ 001. Sandwich panel SPA
- ☐ 100. EA1D___/ Door frame stud
- ☐ 181. Drip flashing, t = 0.6 mm, according to project
- ☐ 189. Cover flashing, t = 0.6 mm, according to project
- ☐ 191. Cover flashing, t = 0.6 mm, according to project
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 232. Flashing fastener, without washer
- ☐ 234. Flat head flashing fastener
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
- ☐ 310. /EA____/ Wool
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 321. Ruukki silicone

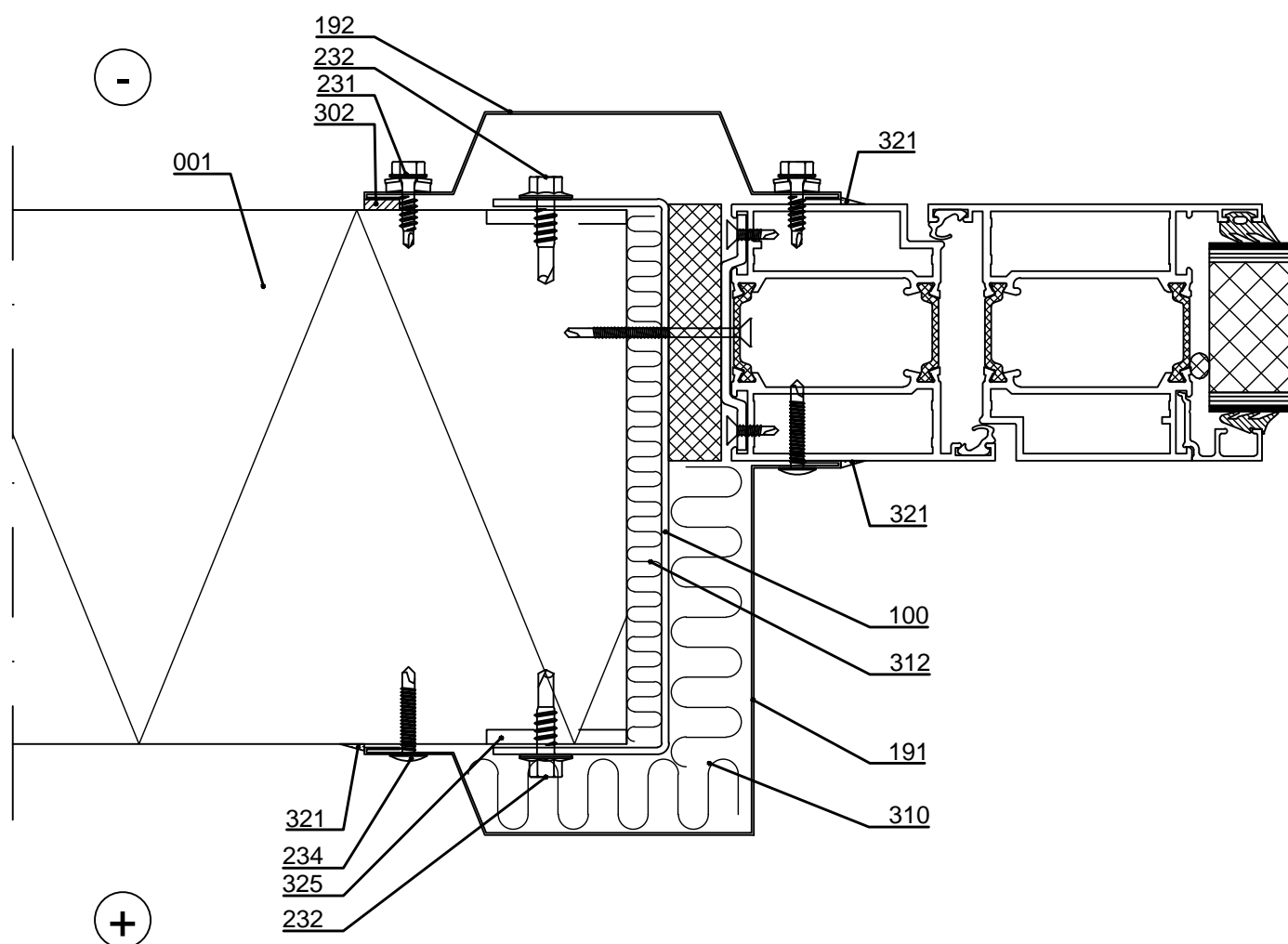
☒ Ruukki's delivery

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA09-6E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

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

Note! Remember to seal the grooves of the elements joining the door during the installation with sealant to outer female groove to length equivalent to vertical joint flashing and inner female groove in length of sealing (SPA02-1E).

Supporting structures, if necessary, according to structural designer (SPA09-4E).



- ☐ 001. Sandwich panel SPA
- ☐ 100. EA1D___/ Door frame stud
- ☐ 191. Cover flashing, t = 0.6 mm, according to project
- ☐ 192. Cover flashing, t = 0.6 mm, according to project
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 232. Flashing fastener, without washer
- ☐ 234. Flat head flashing fastener
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
- ☐ 310. /EA____/ Wool
- ☐ 312. /EAWS___/ Mineral wool band
- ☐ 321. Ruukki silicone
- ☐ 325. Ruukki silicone
to outer and inner female grooves

☒ Ruukki's delivery



Contents of drawing

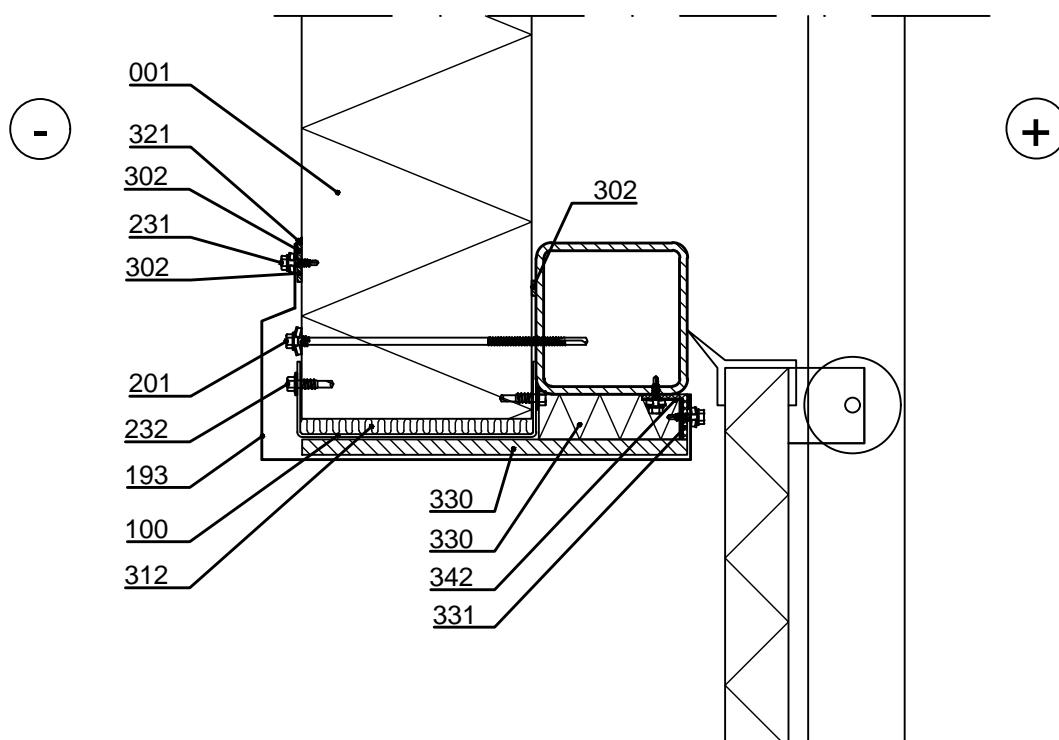
Sandwich panel SPA, horizontal installation
Overhead door, vertical section

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA09-7E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building	File nr.	

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

Note! Remember to seal the grooves of the elements joining the door during the installation with sealant to outer female groove to length equivalent to vertical joint flashing and inner female groove in length of sealing (SPA02-1E).

Supporting structures according to structural designer.



- | | |
|--|--|
| <input type="checkbox"/> 001. Sandwich panel SPA | <input type="checkbox"/> 302. /EA3SS410/ Sealing strip |
| <input type="checkbox"/> 100. EA1D___/ Door frame stud | <input type="checkbox"/> /EA3SS510/ Sealing band EPDM for flashing |
| <input type="checkbox"/> 193. Drip- / cover flashing, t = 0.6 mm, according to project | <input type="checkbox"/> (for demanding climate conditions e.g. coastal areas) |
| <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"/> 321. Ruukki silicone |
| <input type="checkbox"/> 232. Flashing fastener, without washer | <input type="checkbox"/> 330. PU insulation |
| | <input type="checkbox"/> 331. EPDM sealing |
| | <input type="checkbox"/> 342. L-profile |

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Contents of drawing

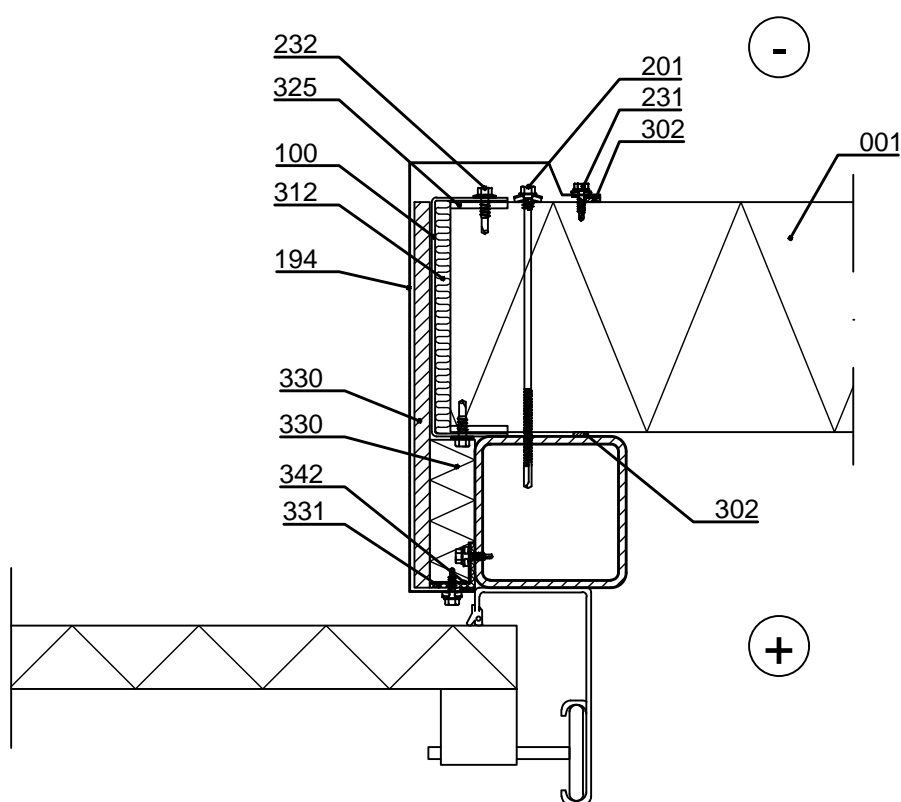
Sandwich panel SPA, horizontal installation
Overhead door, horizontal section

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA09-8E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

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

Note! Remember to seal the grooves of the elements joining the door during the installation with sealant to outer female groove to length equivalent to vertical joint flashing and inner female groove in length of sealing (SPA02-1E).

Supporting structures according to structural designer.



- | | |
|--|---|
| <input type="checkbox"/> 001. Sandwich panel SPA | <input type="checkbox"/> 312. /EAWS___/ Mineral wool band |
| <input type="checkbox"/> 100. EA1D___/ Door frame stud | <input type="checkbox"/> 325. Ruukki silicone |
| <input type="checkbox"/> 194. Cover flashing, t = 0.6 mm, according to project | to outer and inner female grooves |
| <input type="checkbox"/> 201. Self-drilling element screw, washer with sealing | <input type="checkbox"/> 330. PU insulation |
| <input type="checkbox"/> 231. Flashing fastener, washer with sealing | <input type="checkbox"/> 331. EPDM sealing |
| <input type="checkbox"/> 232. Flashing fastener, without washer | <input type="checkbox"/> 342. L-profile |
| <input type="checkbox"/> 302. /EA3SS410/ Sealing strip | |
| /EA3SS510/ Sealing band EPDM for flashing | |
| (for demanding climate conditions e.g. coastal areas) | |

☒ Ruukki's delivery

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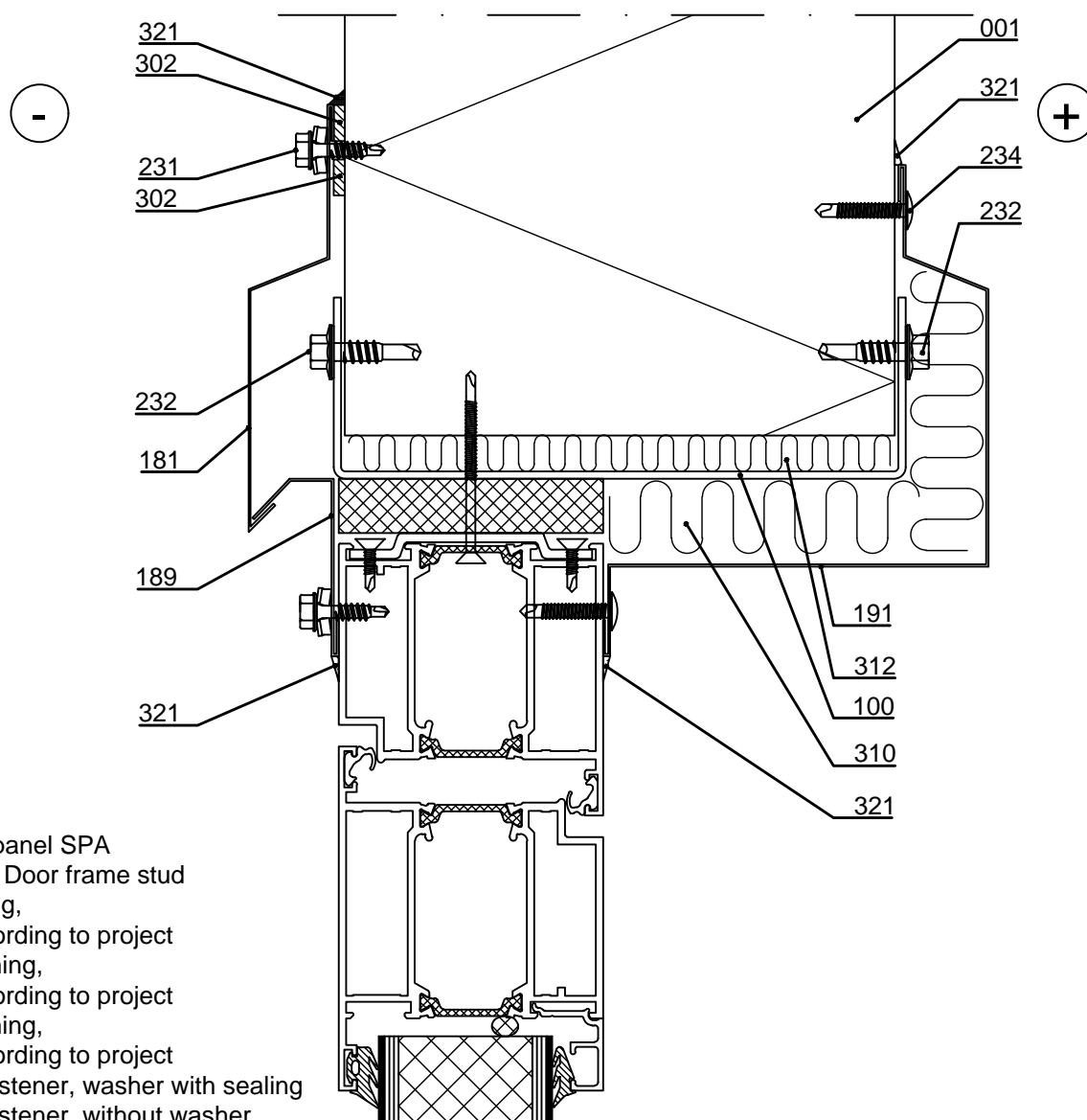
Sandwich panel SPA, horizontal installation
Door, vertical section
Invisible flashing

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA09-30E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building	File nr.	

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

Note! Remember to seal the grooves of the elements joining the door during the installation with sealant to outer female groove to length equivalent to vertical joint flashing and inner female groove in length of sealing (SPA02-1E).

Supporting structures, if necessary, according to structural designer (SPA09-4E).



- ☐ 001. Sandwich panel SPA
- ☐ 100. /EA1D___/ Door frame stud
- ☐ 181. Drip flashing,
t = 0.6 mm, according to project
- ☐ 189. Cover flashing,
t = 0.6 mm, according to project
- ☐ 191. Cover flashing,
t = 0.6 mm, according to project
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 232. Flashing fastener, without washer
- ☐ 234. /S1E42013G___/ Flat head flashing fastener
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
- ☐ 310. Mineral wool
- ☐ 312. /EAWS___/ Mineral wool roll
- ☐ 321. Ruukki silicone

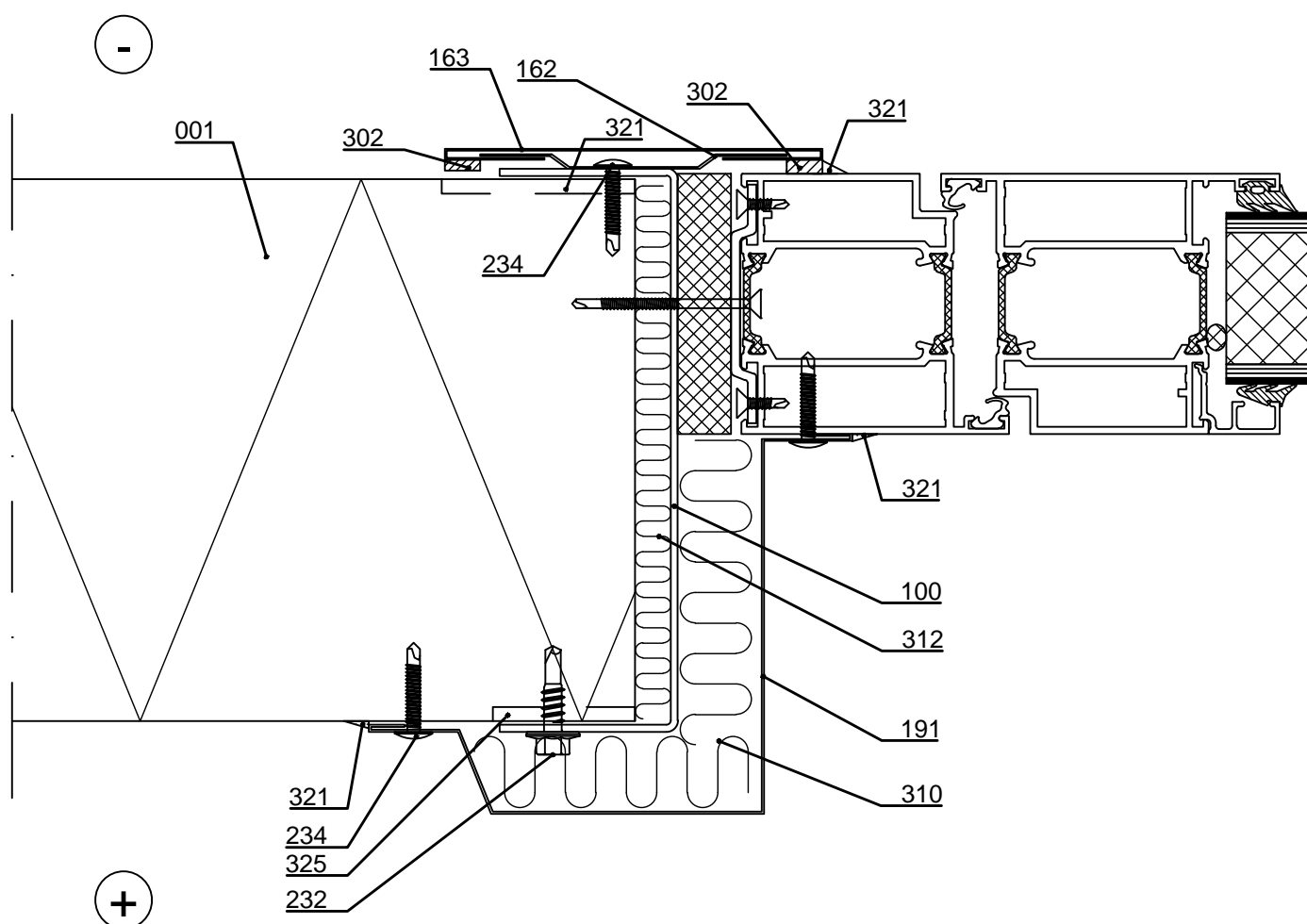
☒ Ruukki's delivery

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA09-31E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

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

Note! Remember to seal the grooves of the elements joining the door during the installation with sealant to outer female groove to length equivalent to vertical joint flashing and inner female groove in length of sealing (SPA02-1E).

Supporting structures, if necessary, according to structural designer (SPA09-4E).



- ☐ 001. Sandwich panel SPA
- ☐ 100. /EA1D___/ Door frame stud
- ☐ 162. /EA1WXB/ Window bottom flashing Invisible
- ☐ 163. /EA1WE/ Window flashing Invisible
- ☐ 191. Cover flashing, t = 0.6 mm, according to project
- ☐ 232. Flashing fastener, without washer
- ☐ 234. /S1E42013G___/ Flat head flashing fastener
- ☐ 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
- ☐ 310. Mineral wool
- ☐ 312. /EAWS___/ Mineral wool roll
- ☐ 321. Ruukki silicone
- ☐ 325. Ruukki silicone
during installation to outer- and inner groove

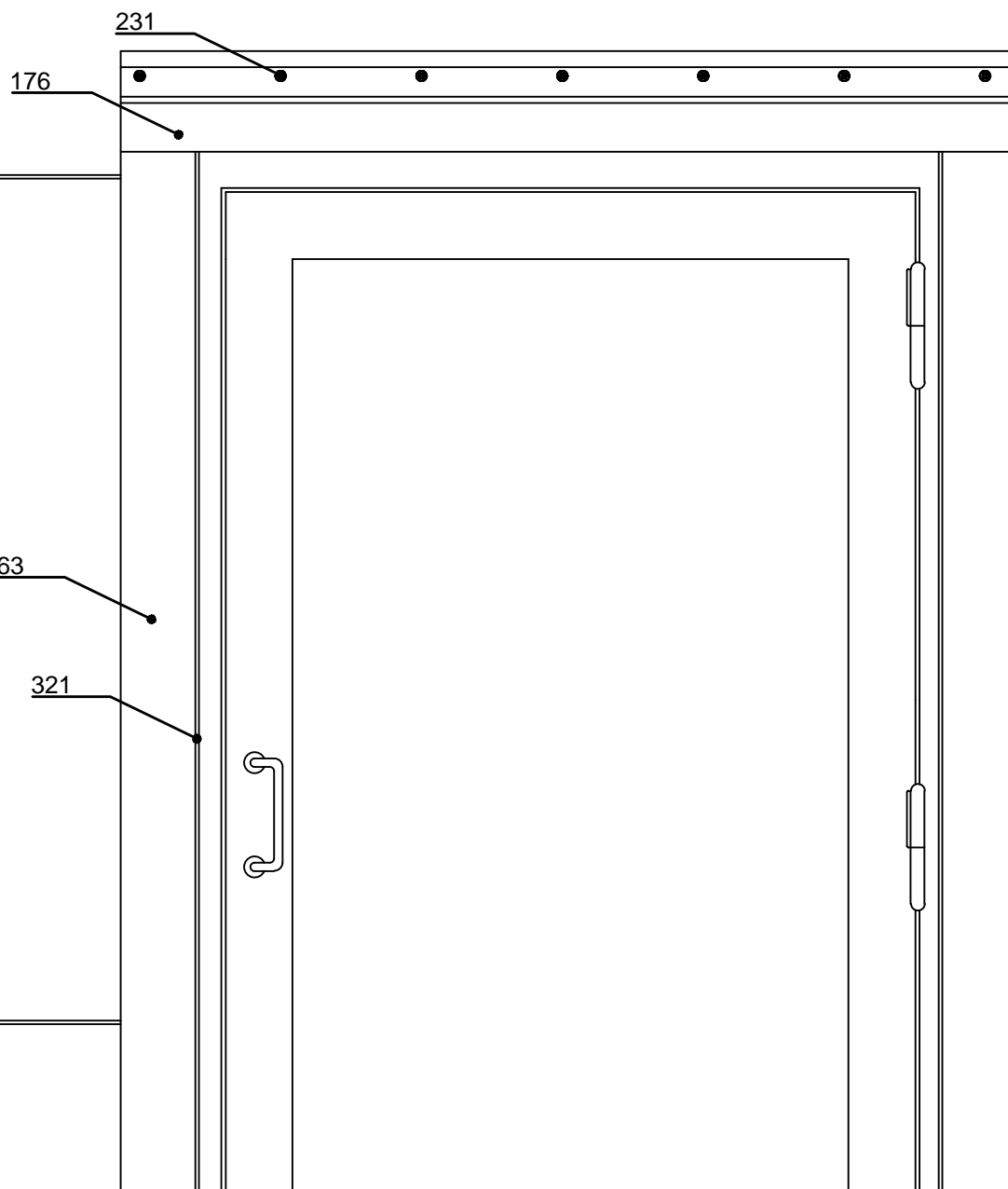
☒ Ruukki's delivery



Contents of drawing

Sandwich panel SPA, horizontal installation
Door
Invisible flashing

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA09-32E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.



- ☐ 163. /EA1WEI/ Window flashing Invisible
- ☐ 176. Drip flashing, t = 0.6 mm, according to project
- ☐ 231. Flashing fastener, washer with sealing
- ☐ 321. Ruukki silicone

☒ Ruukki's delivery

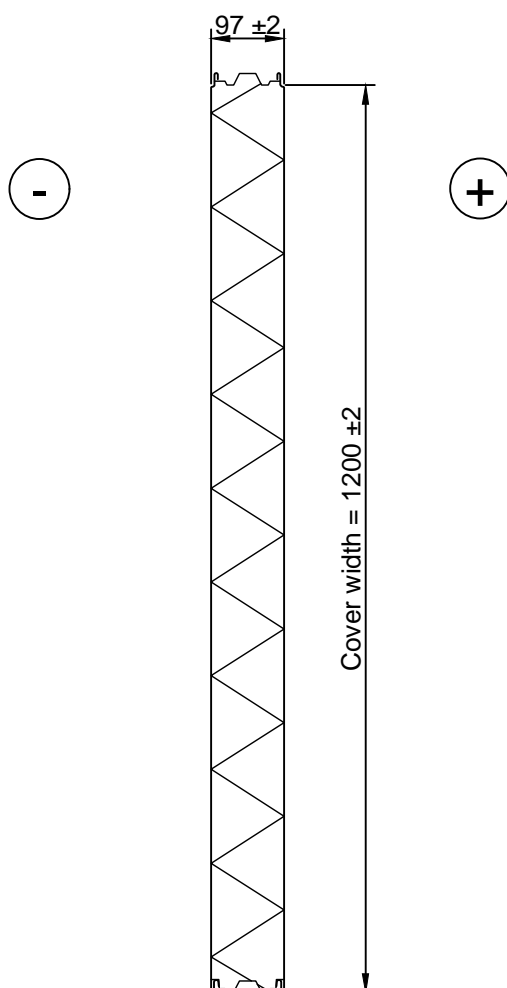
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Contents of drawing

Sandwich panel SPA100

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA10-2E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.

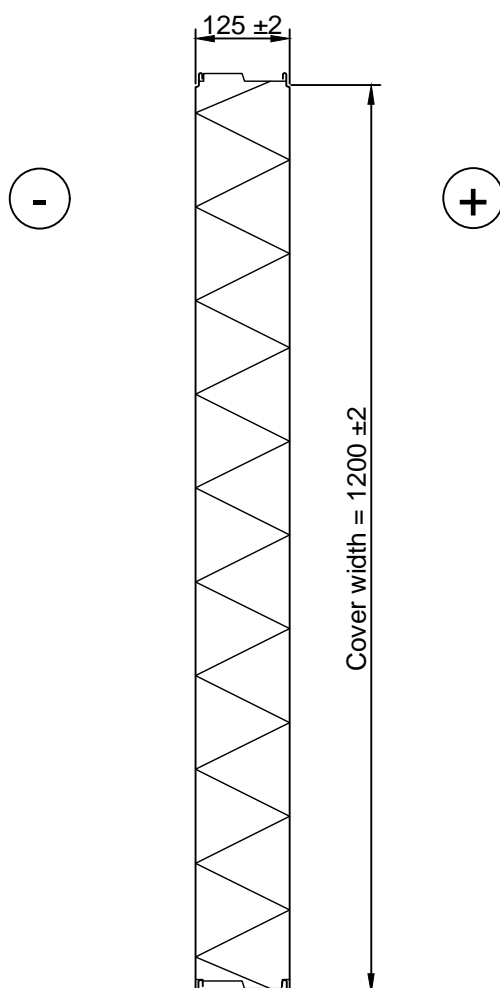




Contents of drawing

Sandwich panel SPA125

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA10-3E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.

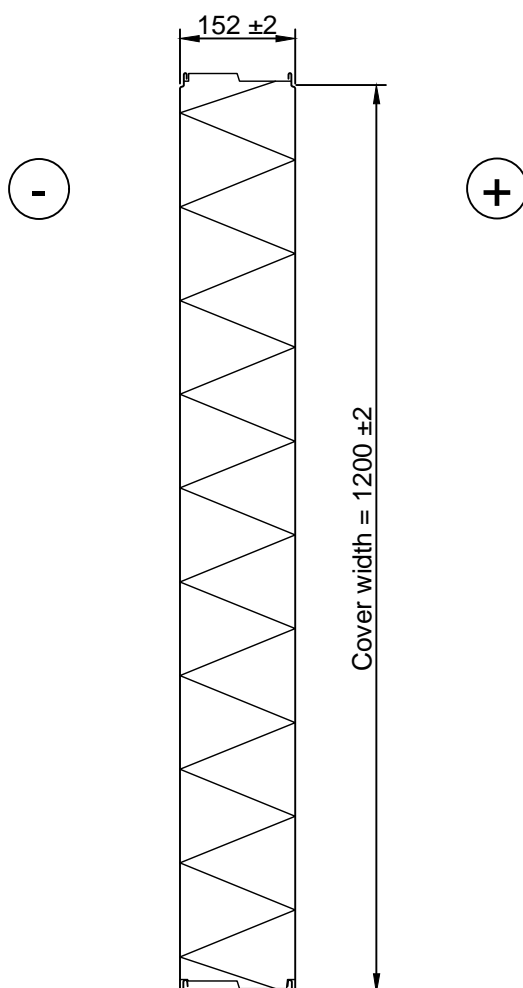




Contents of drawing

Sandwich panel SPA150

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA10-4E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.

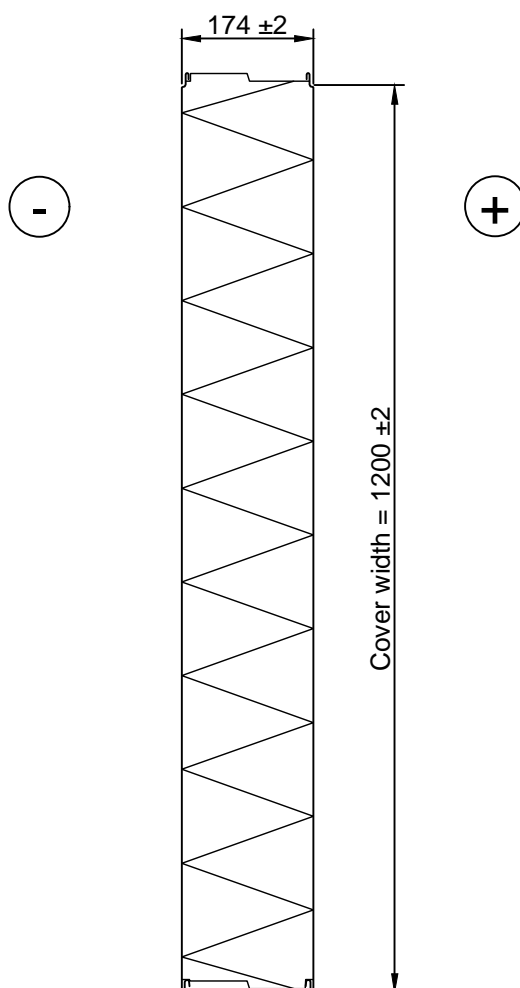




Contents of drawing

Sandwich panel SPA175

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA10-5E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.

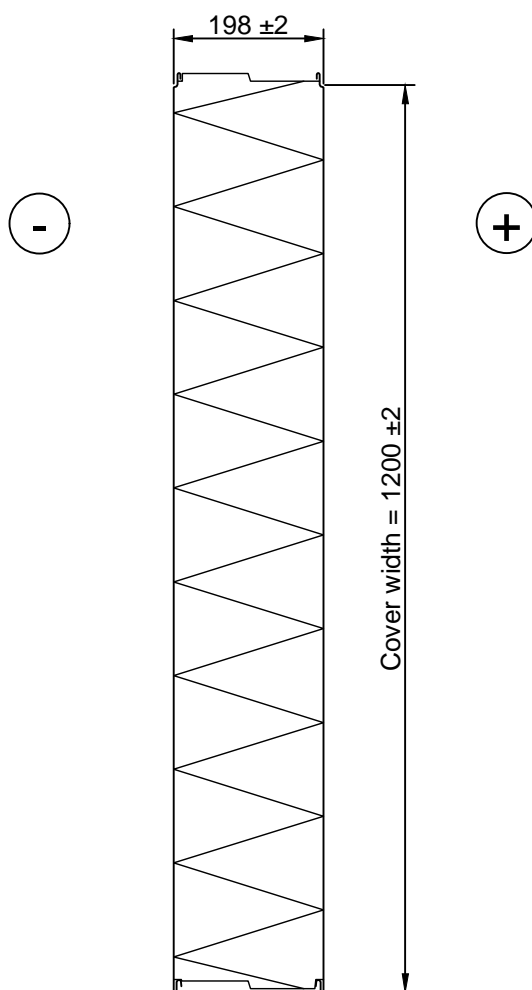




Contents of drawing

Sandwich panel SPA200

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA10-6E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.

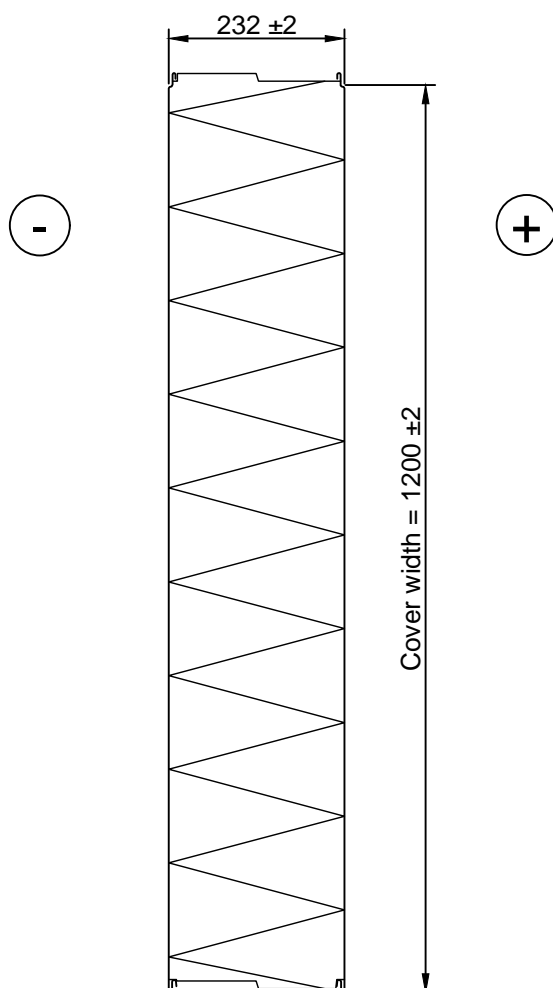




Contents of drawing

Sandwich panel SPA230

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA10-7E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.

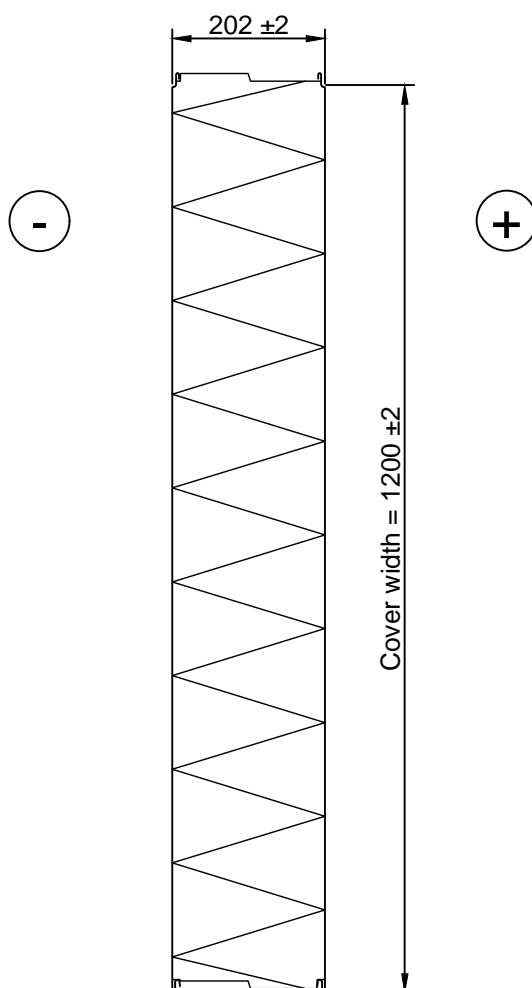




Contents of drawing

Sandwich panel SPA200+

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA10-8E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.

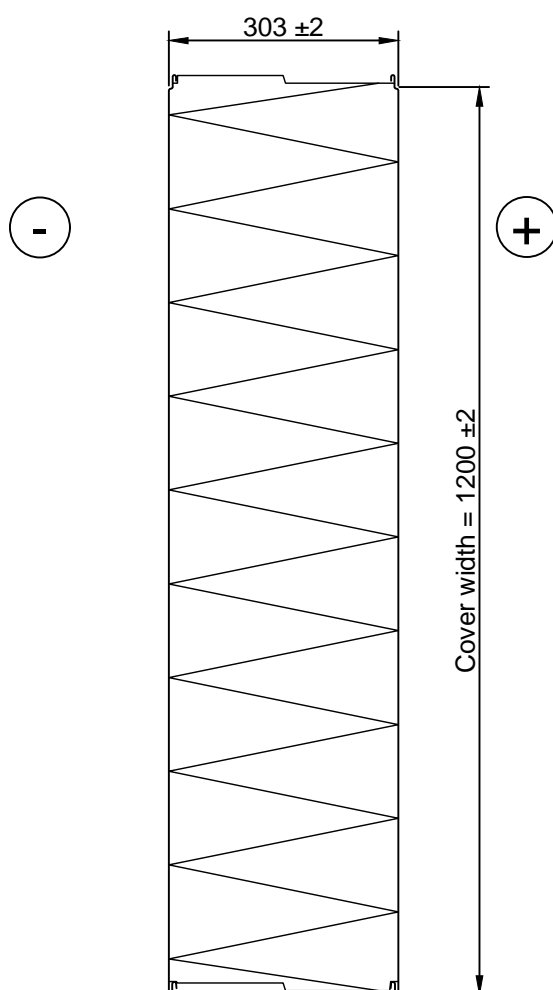




Contents of drawing

Sandwich panel SPA300

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA10-9E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.



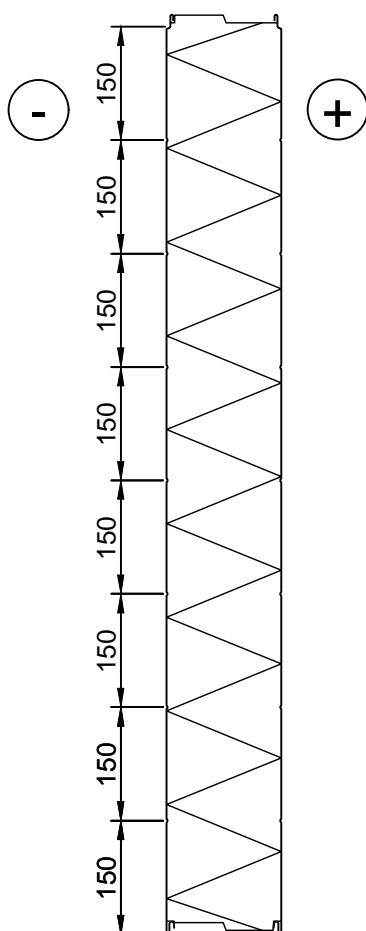


Contents of drawing

Sandwich panel SPA
Rib R150 surface profiling

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA11-1E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.

Available for external and internal facings.



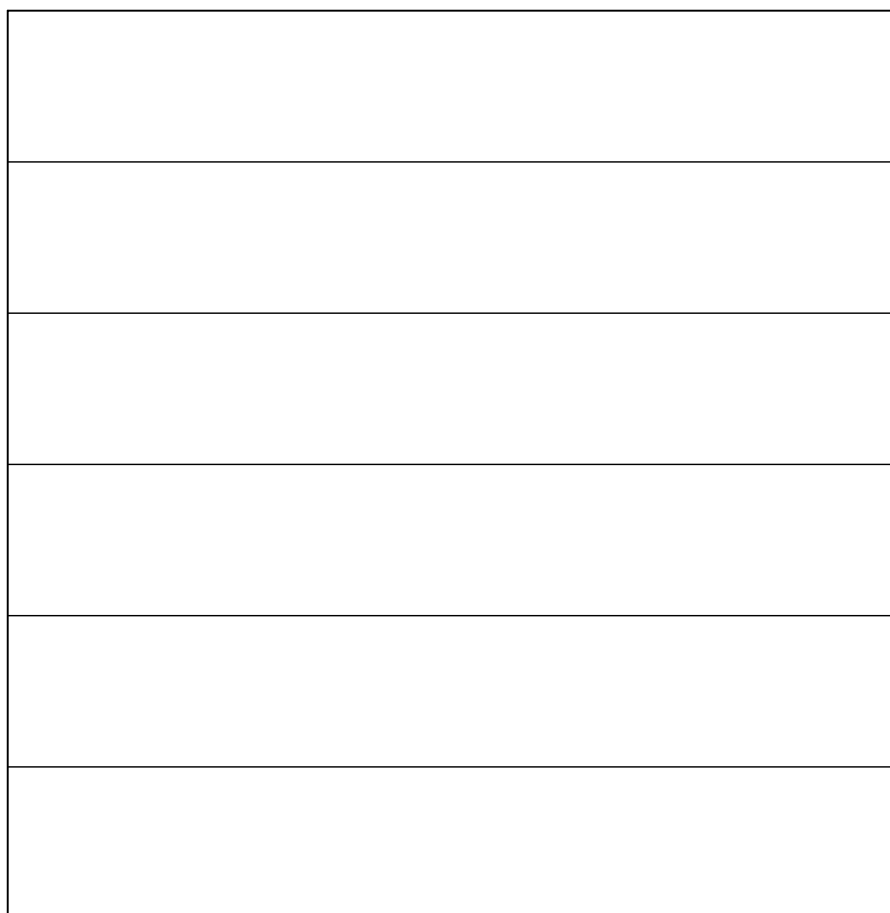
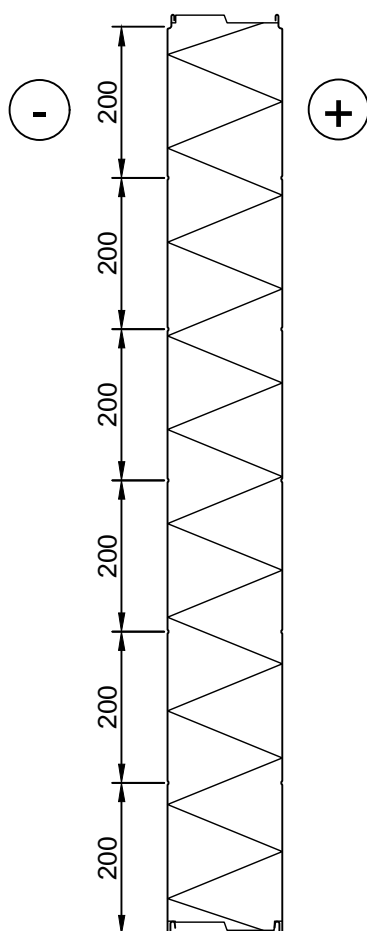


Contents of drawing

Sandwich panel SPA
Rib R200 surface profiling

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA11-2E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.

Available for external and internal facings.



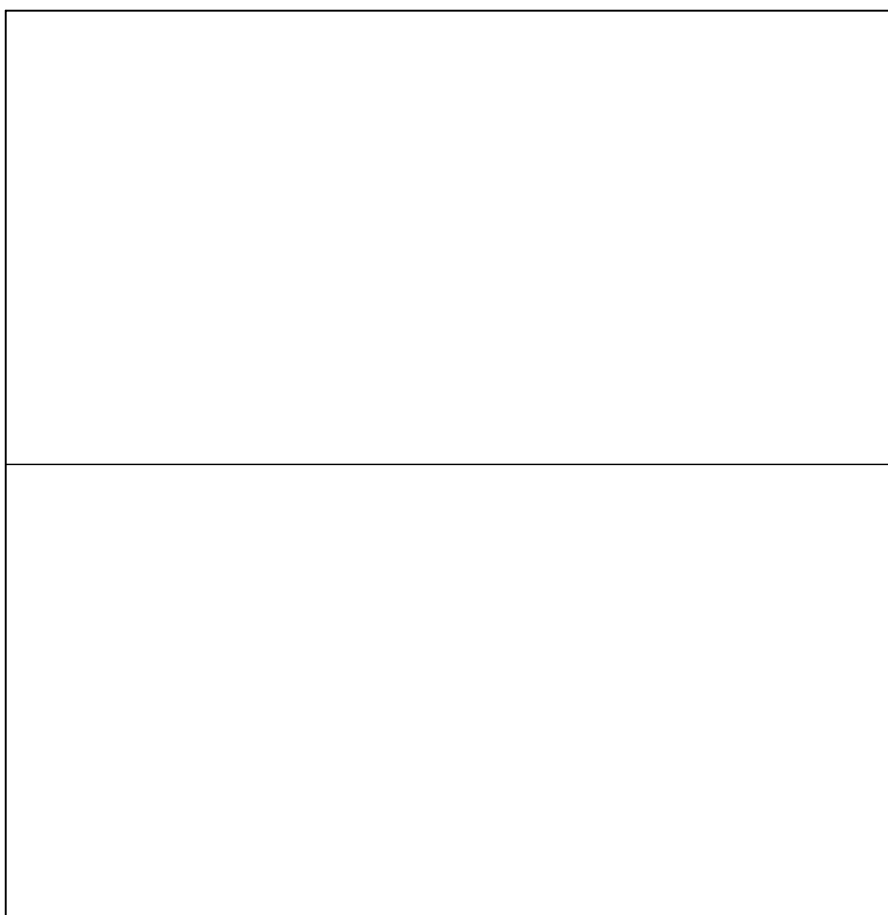
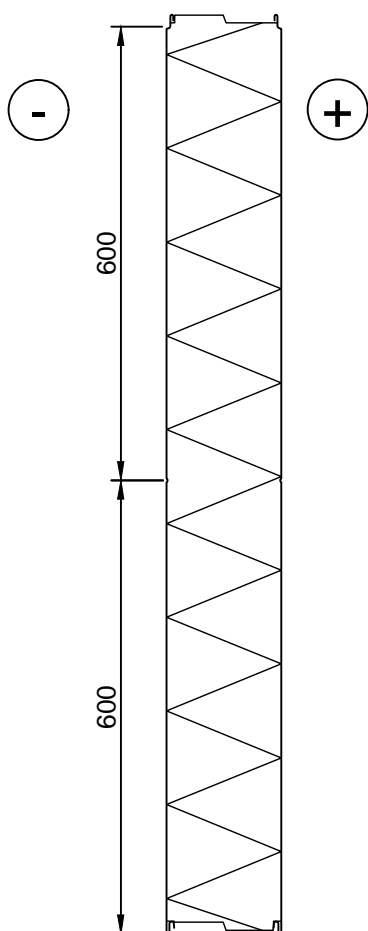


Contents of drawing

Sandwich panel SPA
Rib R600 surface profiling

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA11-3E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.

Available for external and internal facings.



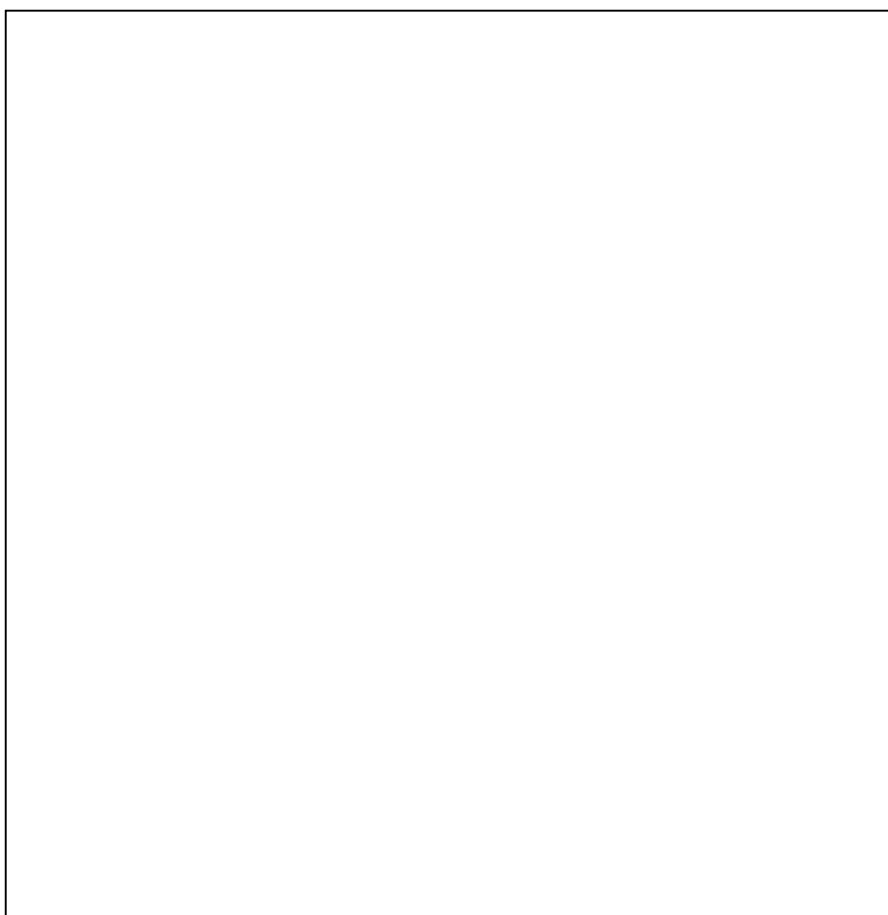
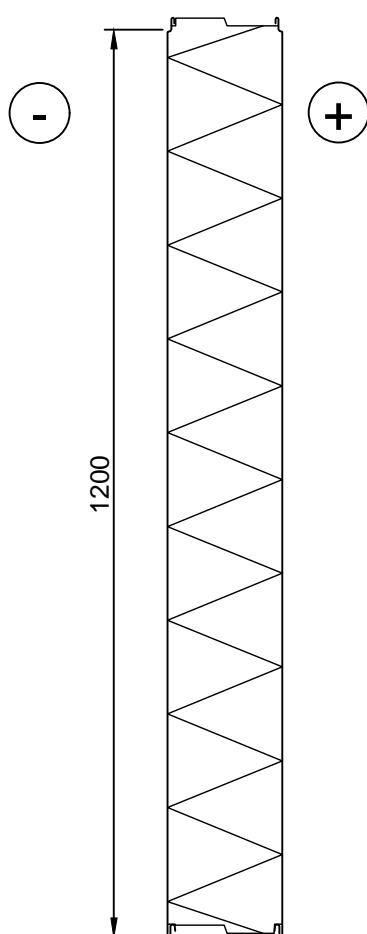


Contents of drawing

Sandwich panel SPA
Smooth F surface (no profiling)

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA11-4E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.

Available for external and internal facings.



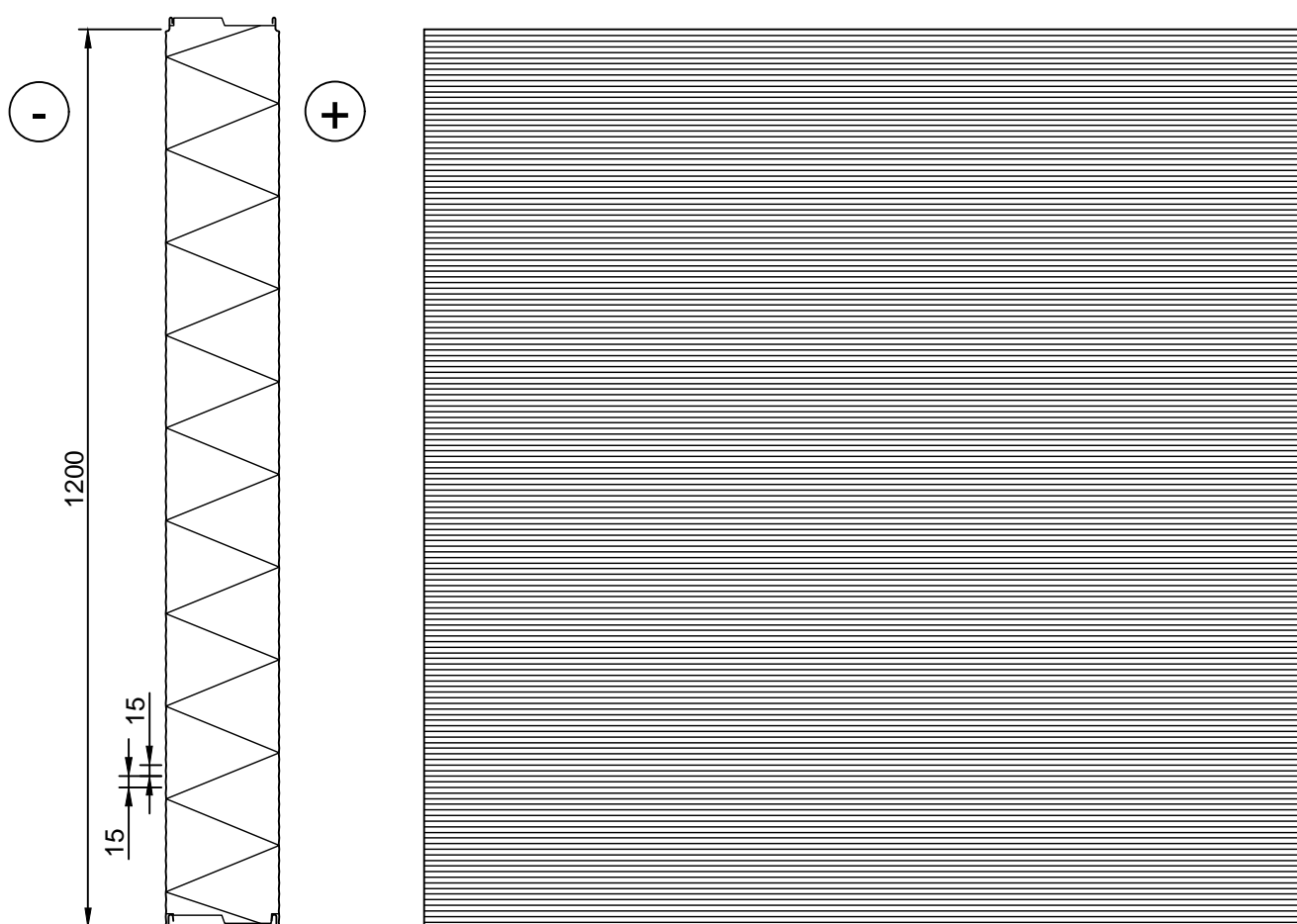


Contents of drawing

Sandwich panel SPA
M15 (Micro) surface profiling

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA11-5E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.

Available for external and internal facings.





Contents of drawing

Sandwich panel SPA
L50 (Linear) surface profiling

Date 27.09.2023	Rev. date	Work nr.	Drawing nr. SPA11-6E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.

Available for external and internal facings.

