

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
SPA03-4E-EN	Vertical joint, horizontal installation, concrete 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
SPA04-4E-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
SPA04-33E-EN	External corner, corner panel, horizontal installation,invisible flashing
SPA05-1E-EN	Internal corner, horizontal inst., rectangle steel column
SPA05-2E-EN	Internal corner, horizontal inst., rectangle steel column
SPA05-30E-EN	Internal corner, horizontal installation,invisible flashing

City sector	Block	Site/Reg. nr.	File nr.		
Building type	Drawing type			Nr.	
Building, Name and address	Contents of drawing			Scale	
Sandwich panel SPA BASE DETAIL DRAWINGS External walls					
Ruukki	Ruukki Construction Oy Panuntie 11 00620 HELSINKI FINLAND	tel. +358 (0) 20 59 150 www.ruukki.com	Work nr.	Work nr.	Drw. nr. Rev.
Date 01.10.2025	Designer				
Drawn by Ruukki	Checked				

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		
RUUKKI Ruukki Construction Oy Panuntie 11 00620 HELSINKI FINLAND		Sandwich panel SPA BASE DETAIL DRAWINGS External walls			
Date 01.10.2025	Designer	Work nr.	Work nr.	Drw. nr.	Rev.
Drawn by Ruukki	Checked				

Drawing nr.	Contents of drawing
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
Building type	Drawing type
Building, Name and address	Contents of drawing
RUUKKI Ruukki Construction Oy Panuntie 11 00620 HELSINKI FINLAND	Sandwich panel SPA BASE DETAIL DRAWINGS External walls
Date 01.10.2025	Designer
Drawn by Ruukki	Checked
	Work nr.
	Work nr.
	Drw. nr.
	Rev.



Contents of drawing

Sandwich panel SPA
Accessory numbers in details

Date 01.10.2025	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 panel

FLASHINGS

- 100. Standard purlins
- 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

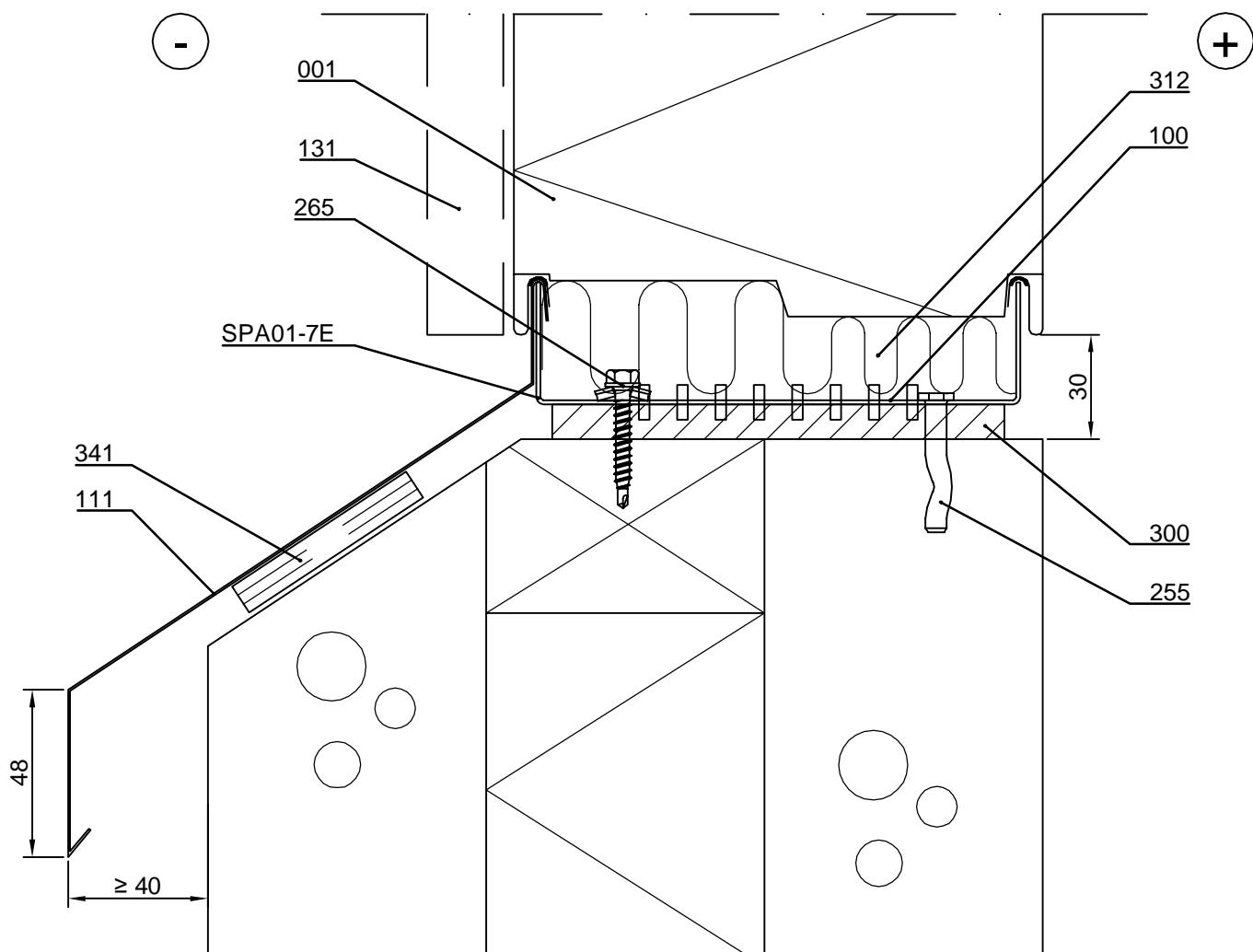
- 300. Plinth sealing (SPA80-230)
- 302. Sealing strip for flashings and for wood / steel frame
- 303. Sealing strip for concrete frame
- 305-308. Ruukki Wind Joint Tape
- 310. Mineral- / stonewool
- 311. Mineral wool
- 312. Mineral wool
- 321-323. Sealant mastic
- 325. Ruukki sealant mastic during installation
- 330. PU insulation
- 331. EPDM sealing
- 341. Plywood
- 342. L-profile

RUUKKI

Contents of drawing

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

Date 01.10.2025	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__/ U-Plinth purlin
- 111. /EA1P3-__/ Plinth flashing (installed simultaneously with panels)
- 131. /EA1JV1/ Vertical joint flashing
- 255. /S5R48038/ Spike-fastener, concrete c/c600 || or
- 265. /S3H55042WA4B/ Fastener, wood c/c600
- 300. /EA3SP__10/ Plinth sealing
- 312. /EAWS__/ Mineral wool
- 341. Plywood, if necessary

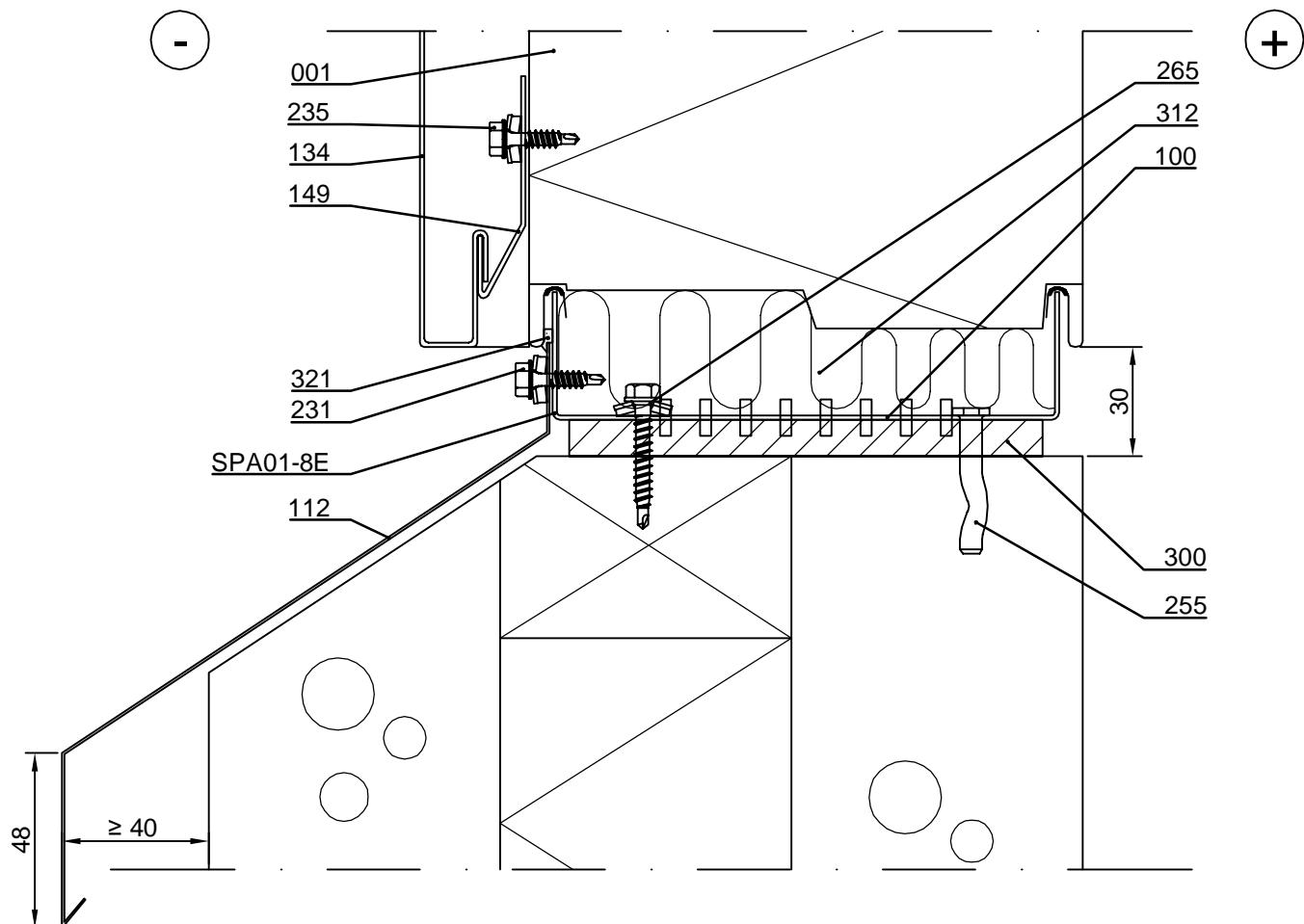
- Ruukki's delivery

RUUKKI

Contents of drawing

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

Date 01.10.2025	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____/ U-Plinth purlin
- 112. /EA1P1-____/ Plinth flashing (can be installed after panel 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 || or
- 265. /S3H55042WA4B/ Fastener, wood c/c600 || or
- 300. /EA3SP____10/ Plinth sealing
- 312. /EAWS____/ Mineral wool
- 321. Ruukki sealant mastic

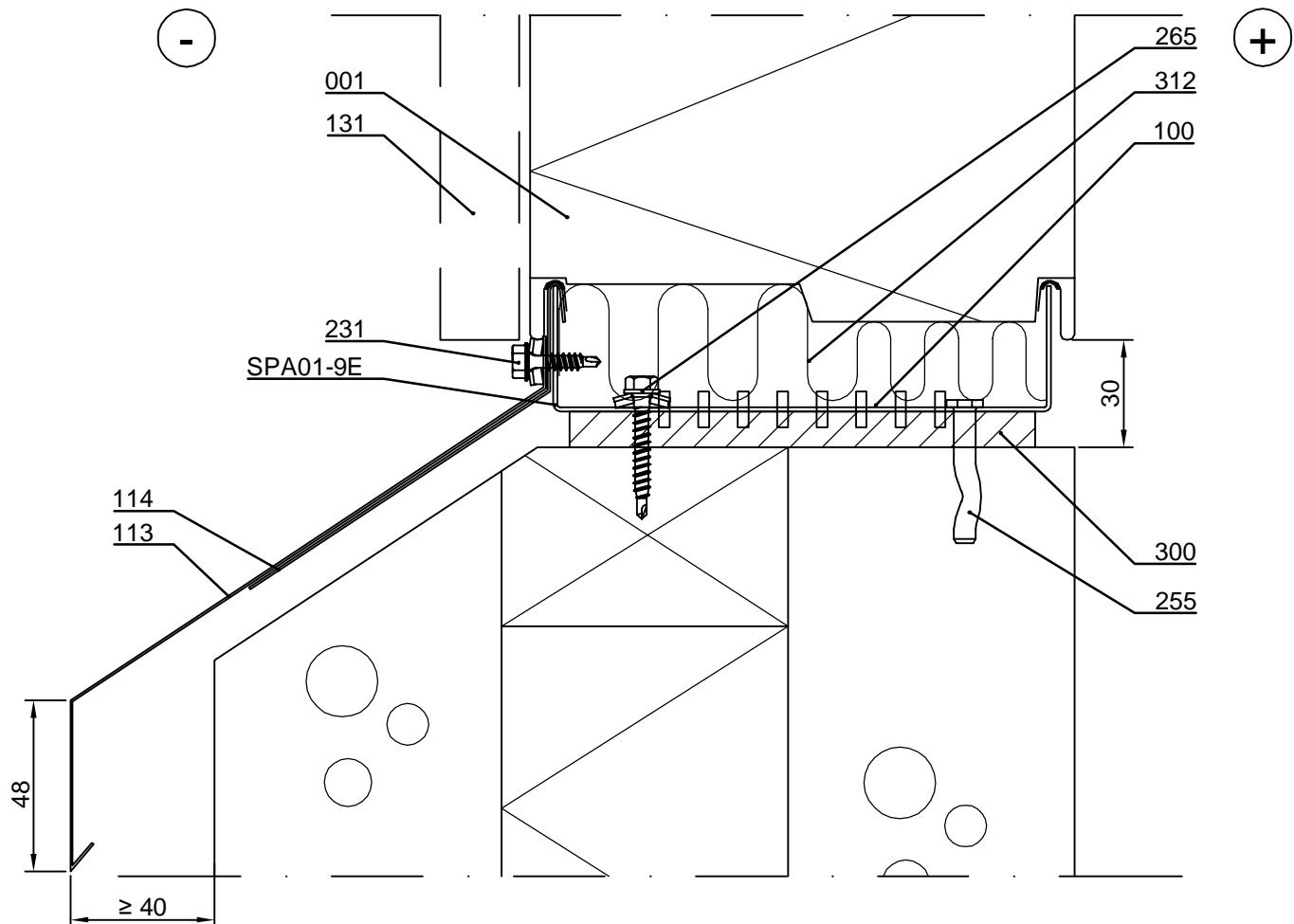
Ruukki's delivery

RUUKKI

Contents of drawing

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

Date 01.10.2025	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____/ U-Plinth purlin
- 113. /EA1P4-____/ Plinth flashing (can be installed after panel installation)
- 114. /EA1PS1-____/ Support flashing (installed simultaneously with panels)
- 131. /EA1JV1/ Vertical joint flashing
- 231. Flashing fastener, washer with sealing
- 255. /S5R48038/ Spike-fastener, concrete c/c600 || or
- 265. /S3H55042WA4B/ Fastener, wood c/c600
- 300. /EA3SP____10/ Plinth sealing
- 312. /EAWS____/ Mineral wool

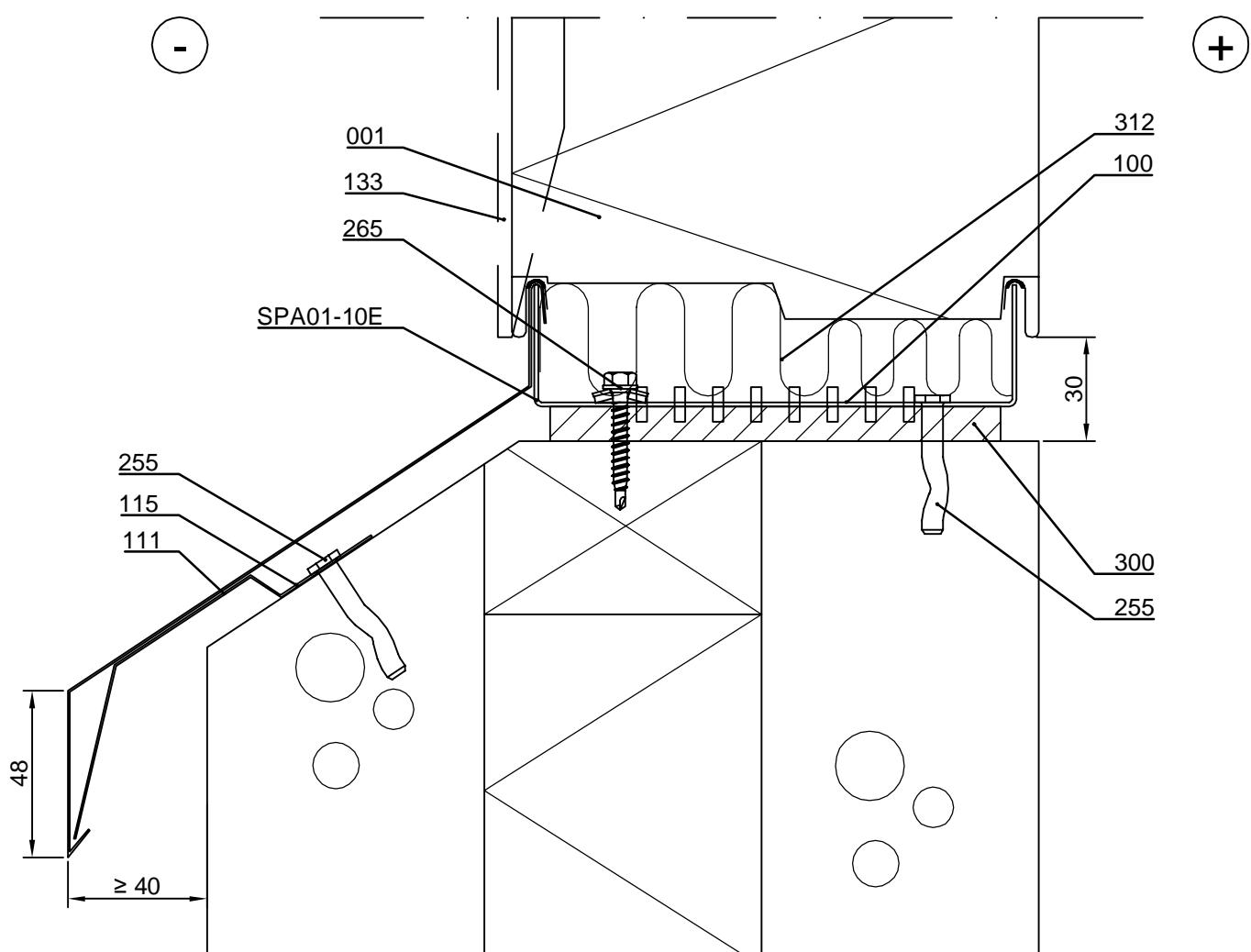
Ruukki's delivery

RUUKKI

Contents of drawing

Sandwich panel SPA, horizontal installation
Plinth, vertical section
Option 4

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA01-4E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

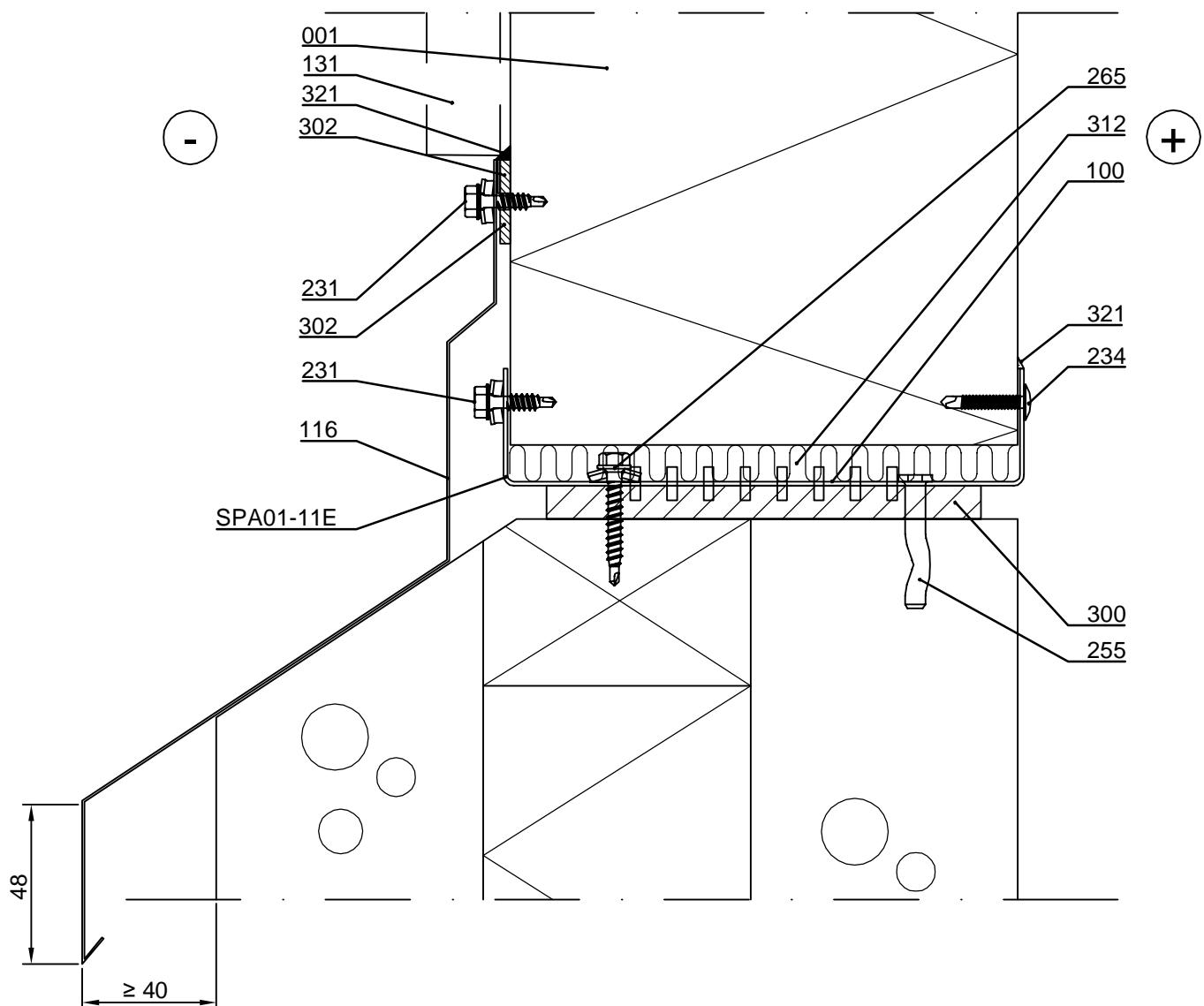


- 001. Sandwich panel SPA
- 100. /EA1U ____ / U-Plinth purlin
- 111. /EA1P3- ____ / Plinth flashing (installed simultaneously with panels)
- 115. Support flashing, L200 k1000, according to project (installed simultaneously with panels)
- 133. /EA1JV9/ Vertical joint flashing
- 255. /S5R48038/ Spike-fastener, concrete c/c600 || or
- 265. /S3H55042WA4B/ Fastener, wood c/c600
- 300. /EA3SP ____ 10/ Plinth sealing
- 312. /EAWS ____ / Mineral wool

Ruukki's delivery

Sandwich panel SPA, horizontal installation
Plinth, vertical section
Starting with cut panel

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA01-5E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

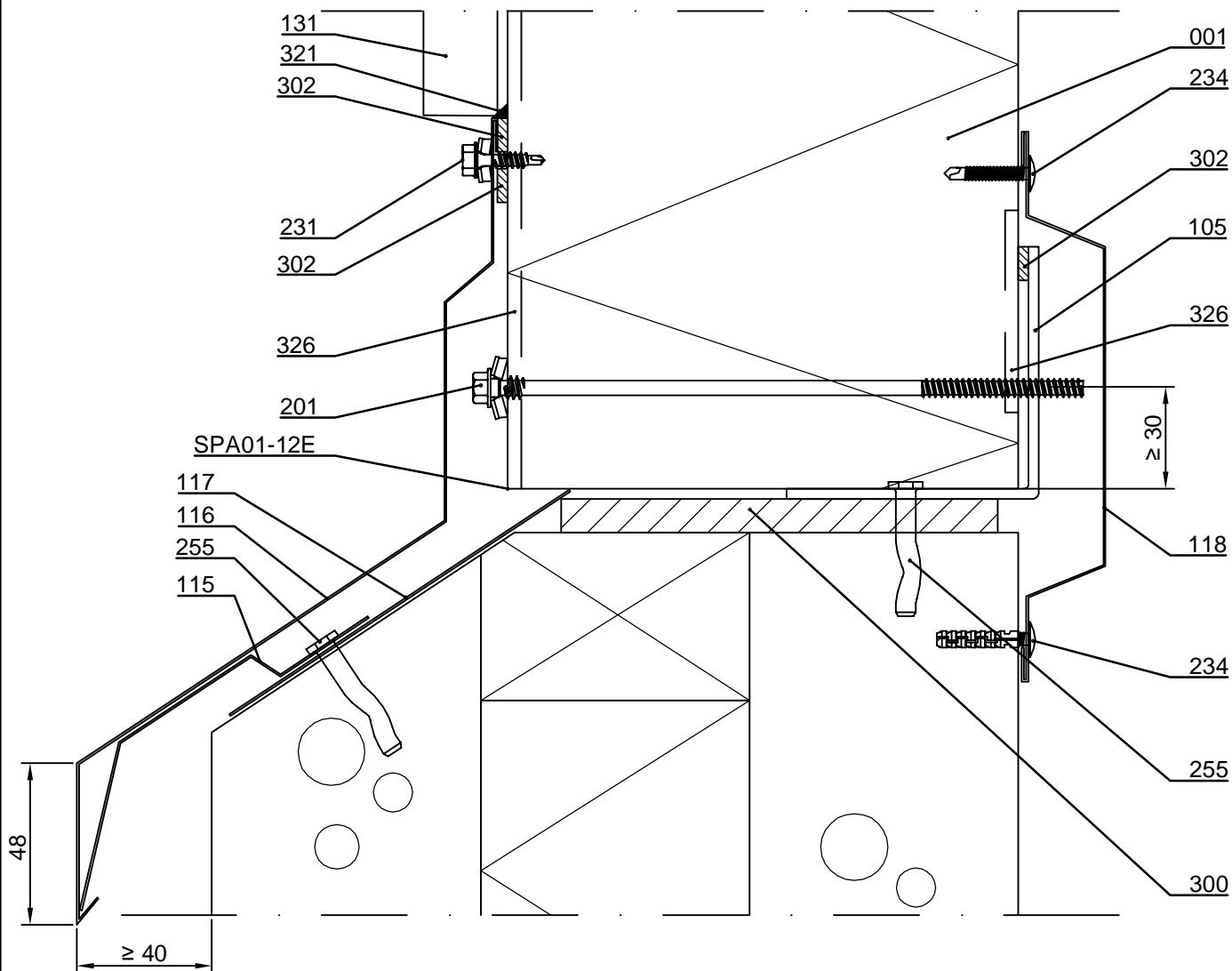


- 001. Sandwich panel SPA
- 100. /EA1W____/ Purlin
- 116. /EA1P5-____/ Plinth flashing
(can be installed after panel installation)
- 131. /EA1JV1/ Vertical joint flashing
- 231. Flashing fastener, washer with sealing
- 234. Flat head flashing fastener
- Ruukki's delivery

- 255. /S5R48038/ Spike-fastener, concrete c/c600 || or
- 265. /S3H55042WA4B/ Fastener, wood c/c600
- 300. /EA3SP____10/ Plinth sealing
- 302. /EA3SS410/ Sealing strip
- 312. /EAWS____/ Mineral wool
- 321. Ruukki sealant mastic

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

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA01-6E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



- 001. Sandwich panel SPA
- 105. /EA1L75/ Support L-purlin, (t=3mm)
- 115. Support flashing, L200 k1000, according to project (installed simultaneously with panels)
- 116. /EA1P5-__/Plinth flashing (can be installed after panel installation)
- 117. Cover flashing, according to project (installed simultaneously with panels)
- 118. Cover flashing, according to project
- 131. /EA1JV1/Vertical joint flashing
- 201. Self-drilling element screw, washer with sealing

- Ruukki's delivery

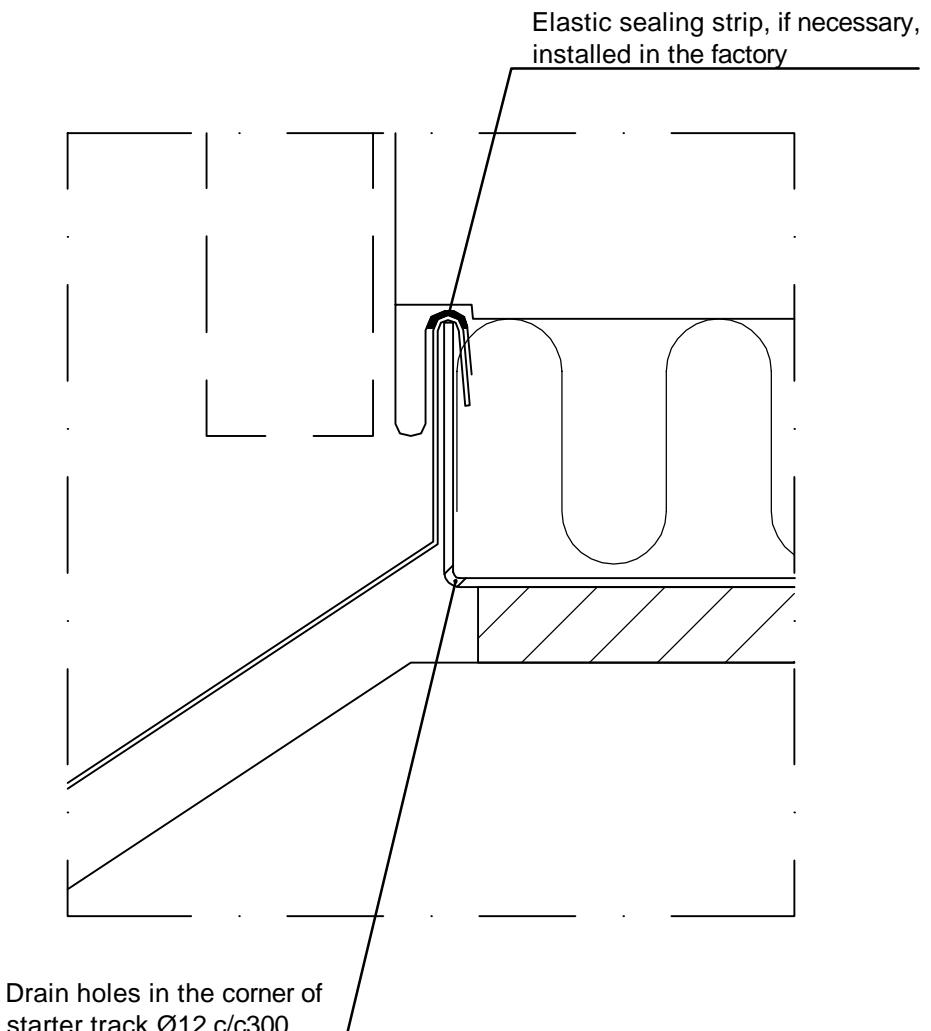
- 231. Flashing fastener, washer with sealing
- 234. Flat head flashing fastener
- 255. /S5R48038/ Spike-fastener, concrete c/c600
- 300. /EA3SP__10/ Plinth sealing
- 302. /EA3SS410/ Sealing strip
- 321. Ruukki sealant mastic
- 325. Ruukki sealant mastic during inst. to outer female groove full length of panel and inner female groove 60 mm from panel end

RUUKKI

Contents of drawing

**Sandwich panel SPA, horizontal installation
Plinth, detail**

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA01-7E-EN
Drawn by Ruukki	Rev.		
Scale 1:1	Building	File nr.	

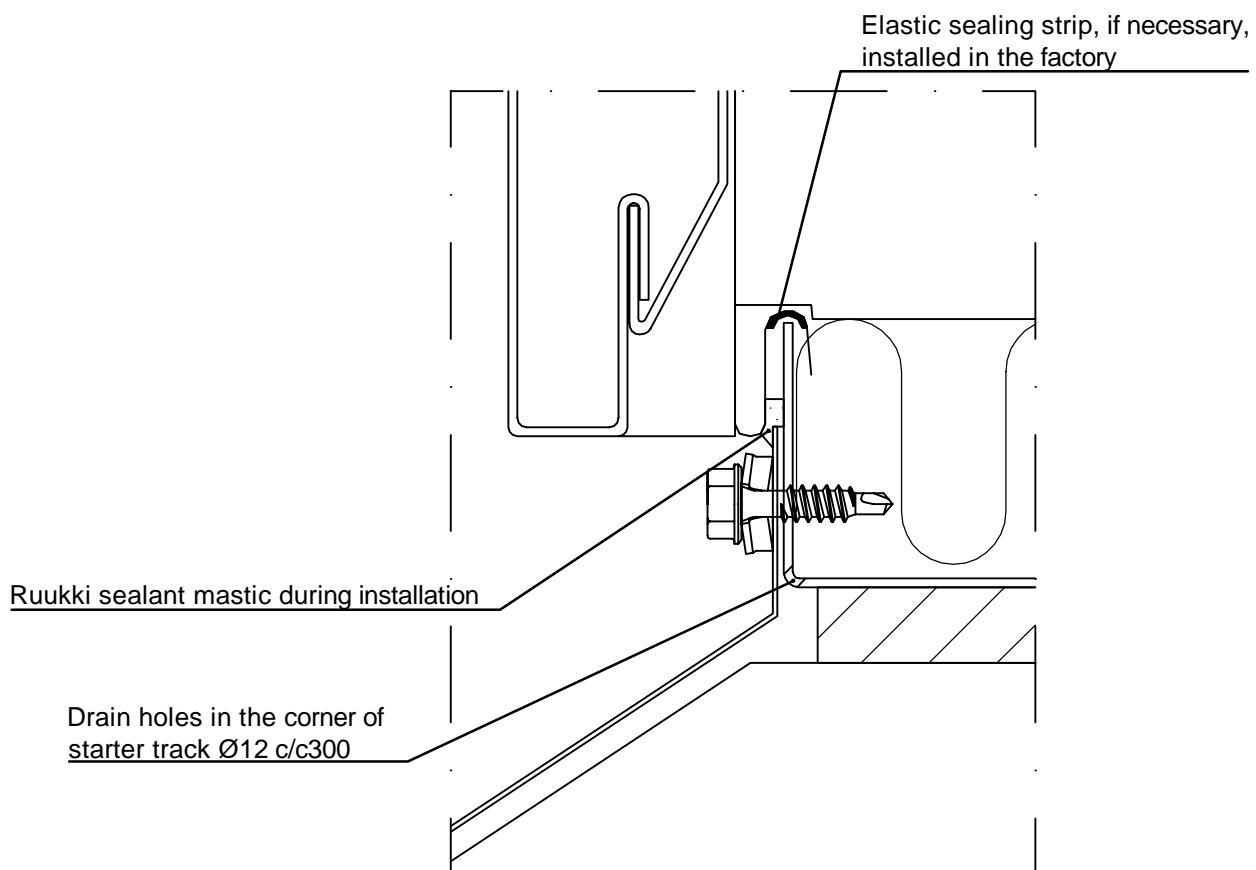


RUUKKI

Contents of drawing

**Sandwich panel SPA, horizontal installation
Plinth, detail**

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA01-8E-EN
Drawn by Ruukki	Rev.		
Scale 1:1	Building		File nr.

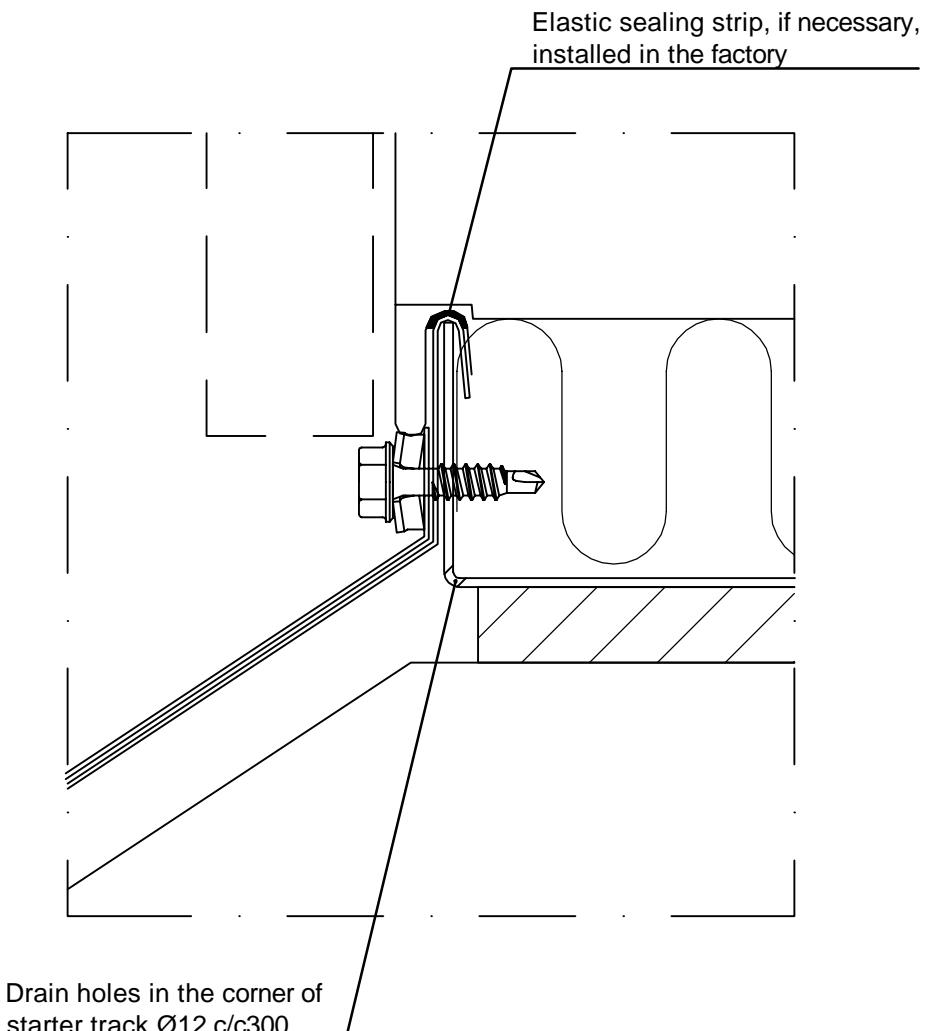


RUUKKI

Contents of drawing

**Sandwich panel SPA, horizontal installation
Plinth, detail**

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA01-9E-EN
Drawn by Ruukki	Rev.		
Scale 1:1	Building	File nr.	

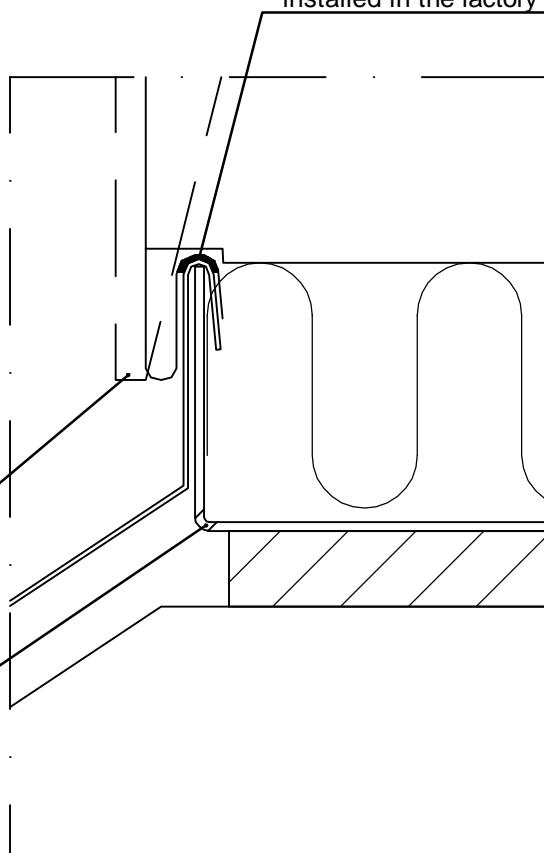


Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA01-10E-EN
Drawn by Ruukki	Rev.		
Scale 1:1	Building		File nr.

The vertical joint flashing must be cut, folded and sealed so that a bottom lip is created so that water cannot transfer into the starter track

Drain holes in the corner of starter track Ø12 c/c300

Elastic sealing strip, if necessary, installed in the factory

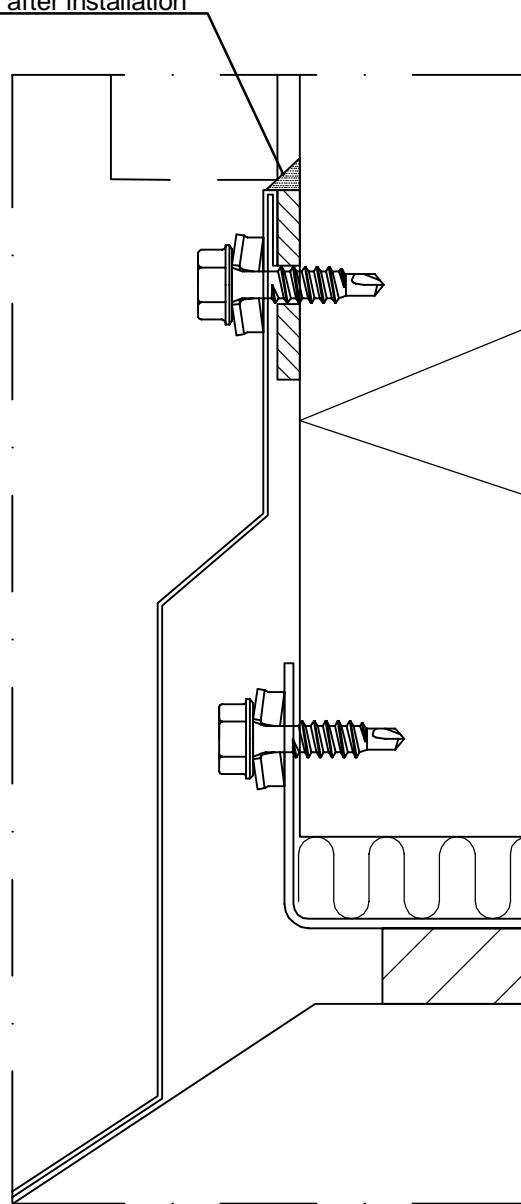


RUUKKI

Contents of drawing

**Sandwich panel SPA, horizontal installation
Plinth, detail**

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA01-11E-EN
Drawn by Ruukki	Rev.		
Scale 1:1	Building		File nr.

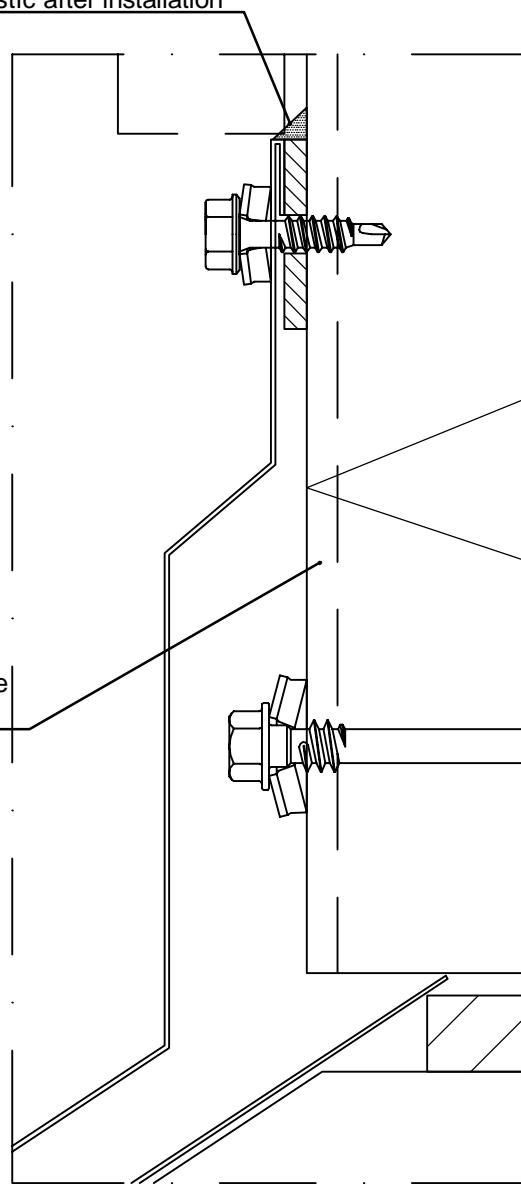
Ruukki sealant mastic after installation

RUUKKI

Contents of drawing

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

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA01-12E-EN
Drawn by Ruukki	Rev.		
Scale 1:1	Building		File nr.

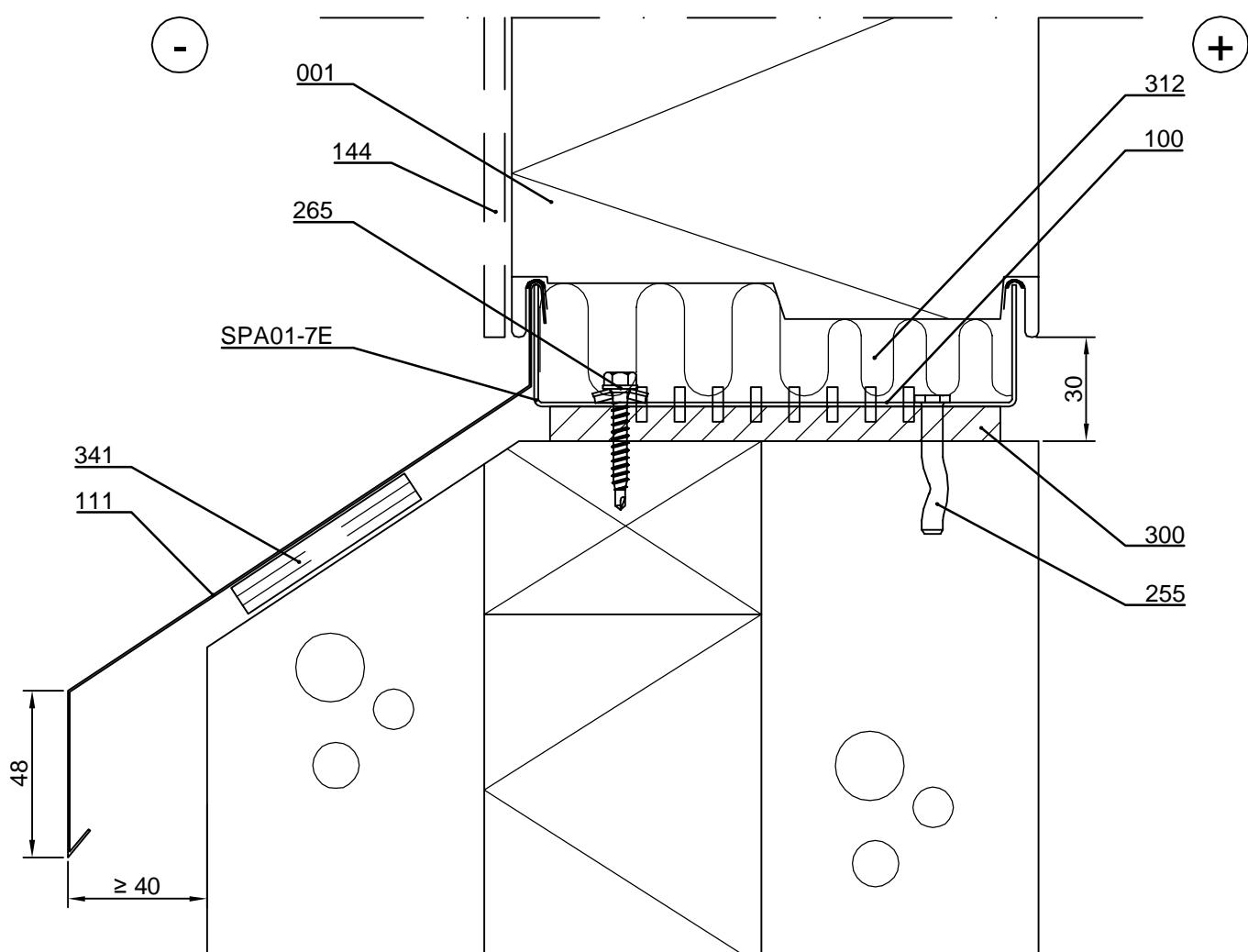
Ruukki sealant mastic after installationRuukki sealant mastic to outer female groove
during installation



Contents of drawing

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

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA01-30E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

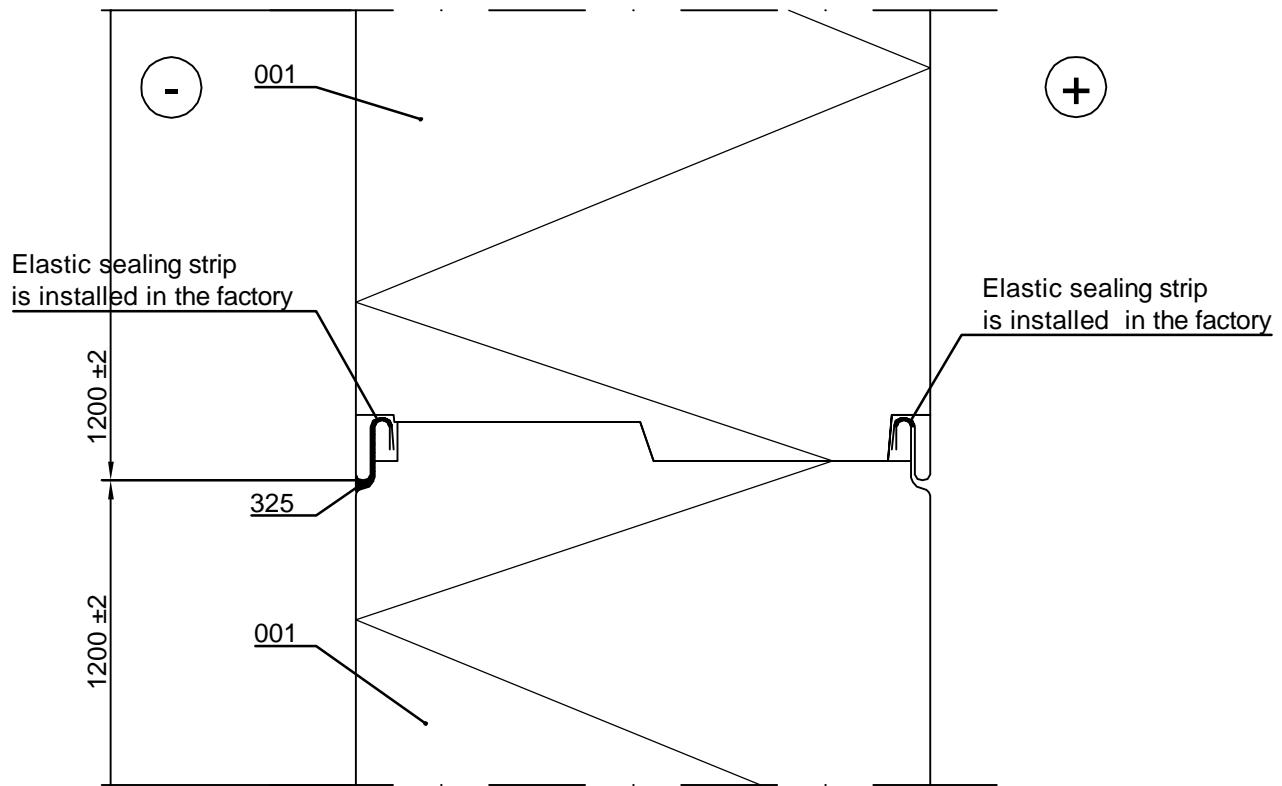


- 001. Sandwich panel SPA
- 100. /EA1U____/ U-Plinth purlin
- 111. /EA1P3-____/ Plinth flashing (installed simultaneously with panels)
- 144. /EA1JVI/ Vertical joint flashing, Invisible
- 255. /S5R48038/ Spike-fastener, concrete c/c600 || or
- 265. /S3H55042WA4B/ Fastener, wood c/c600 || or
- 300. /EA3SP____10/ Plinth sealing
- 312. /EAWS____/ Mineral wool
- 341. Plywood, if necessary

Ruukki's delivery

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Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA02-1E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



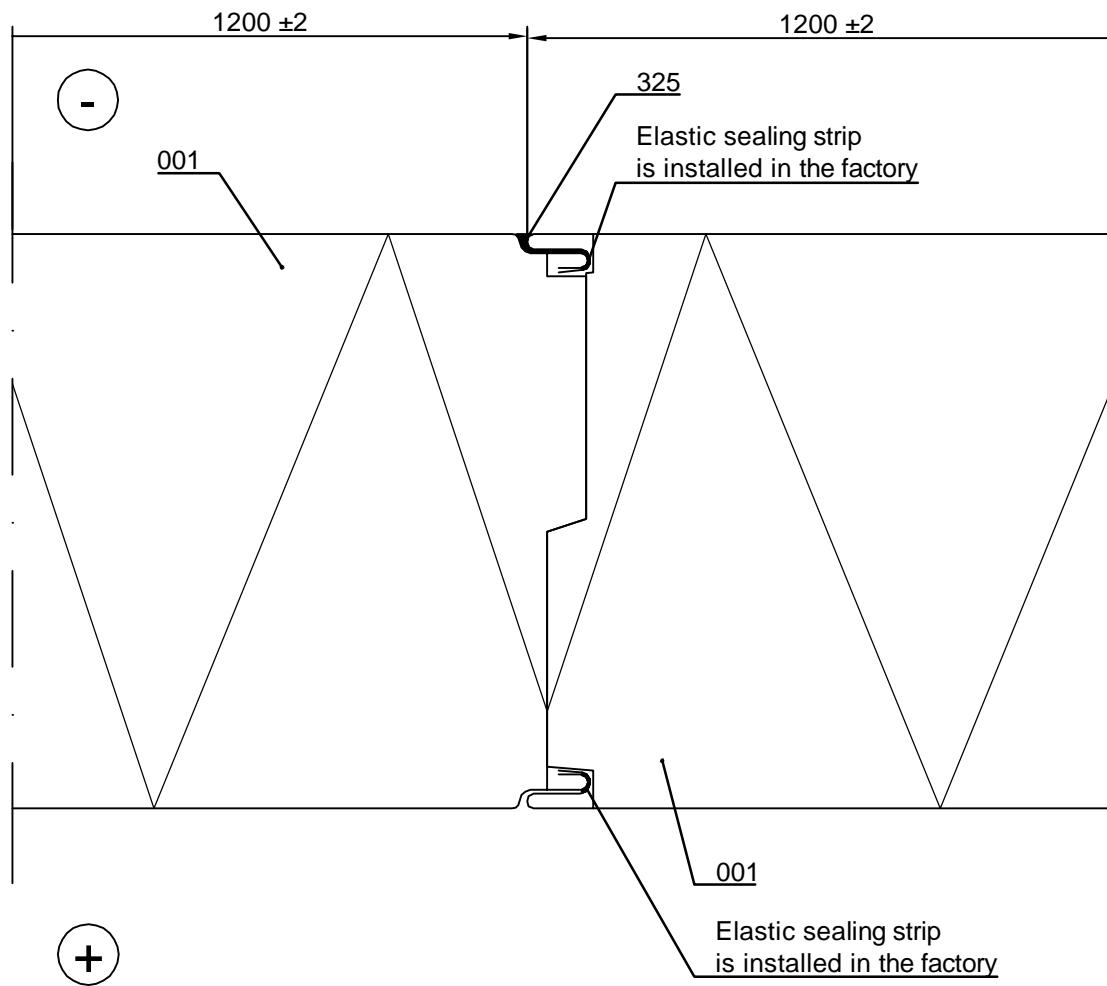
- 001. Sandwich panel SPA
- 325. Ruukki sealant mastic during installation to outer female groove
to length equivalent to vertical joint flashing width and inner female groove in length of sealing
- Ruukki's delivery

RUUKKI

Contents of drawing

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

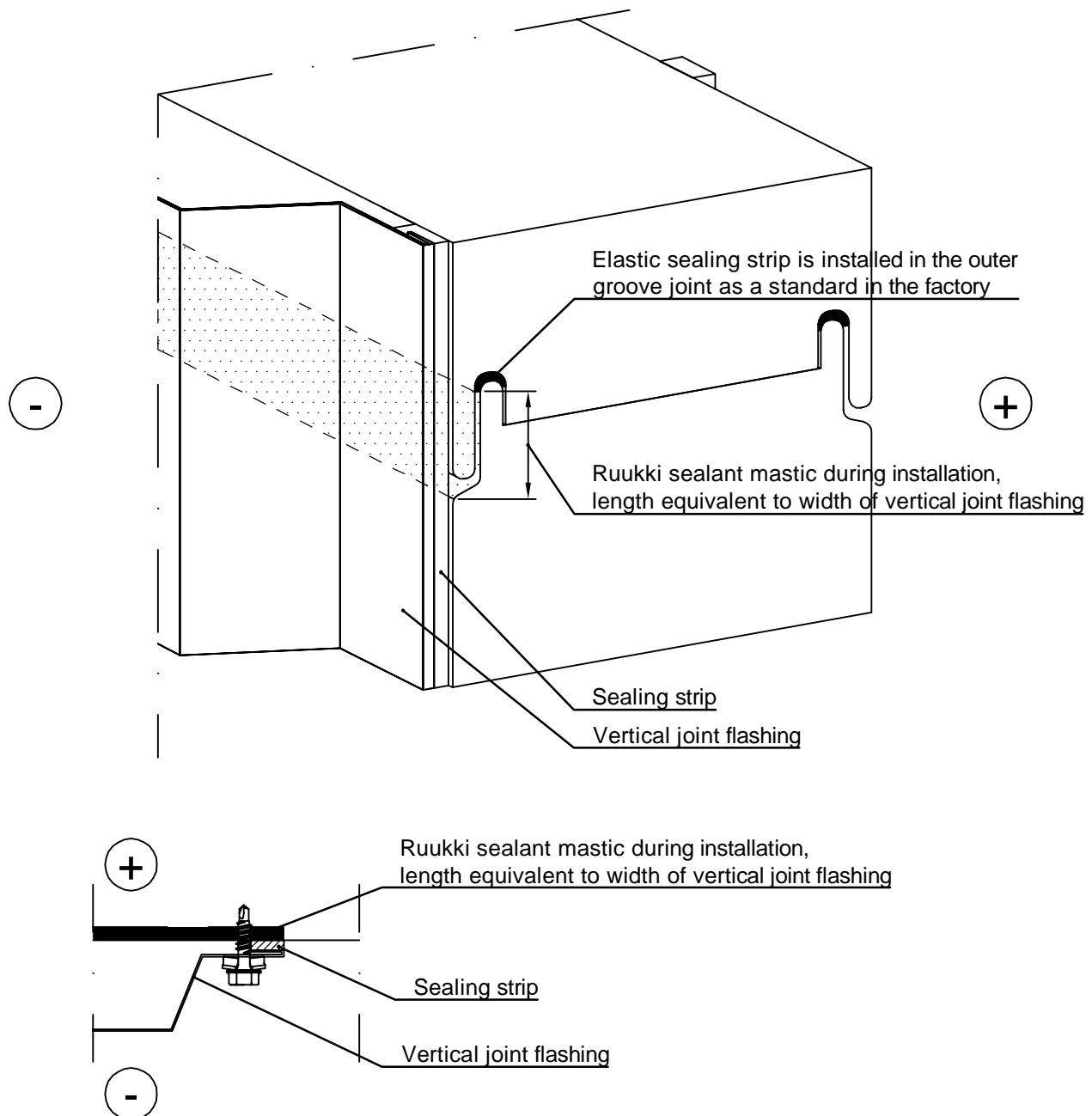
Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA02-2E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



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

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

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA02-3E-EN
Drawn by Ruukki	Rev.		
Scale 1:1	Building		File nr.



Horizontal installation:

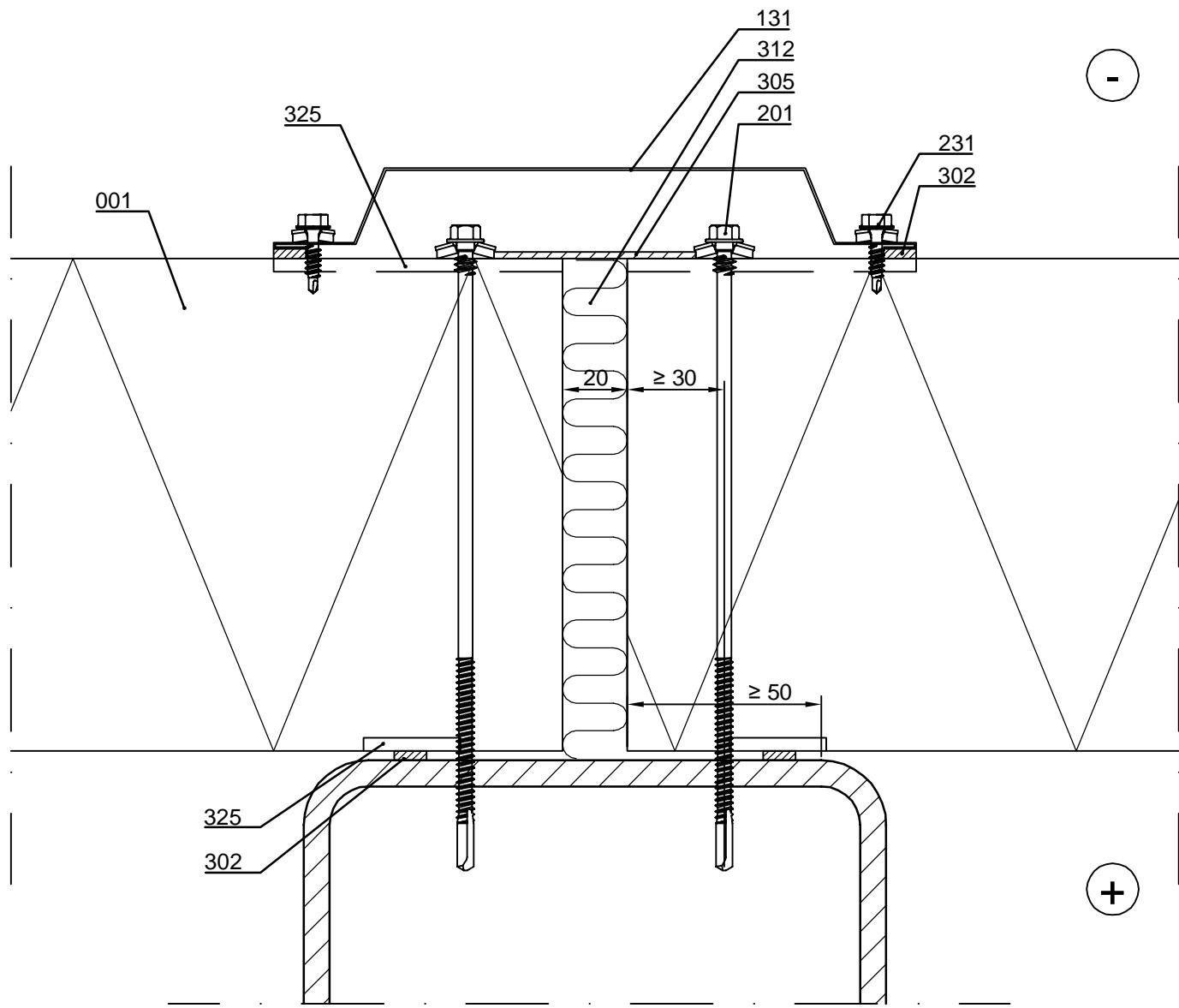
Ruukki sealant mastic during installation to outer female groove. Length equivalent to width of vertical joint flashing. It is important that the groove is completely filled with sealant mastic, i.e. it must be applied before interlocking the joint.

Vertical installation:

Ruukki sealant mastic 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 sealant mastic, i.e. it must be applied before interlocking the joint.

Sandwich panel SPA horizontal installation
 Vertical joint, horizontal section
 Rectangle hollow section column, option 1

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA03-1E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

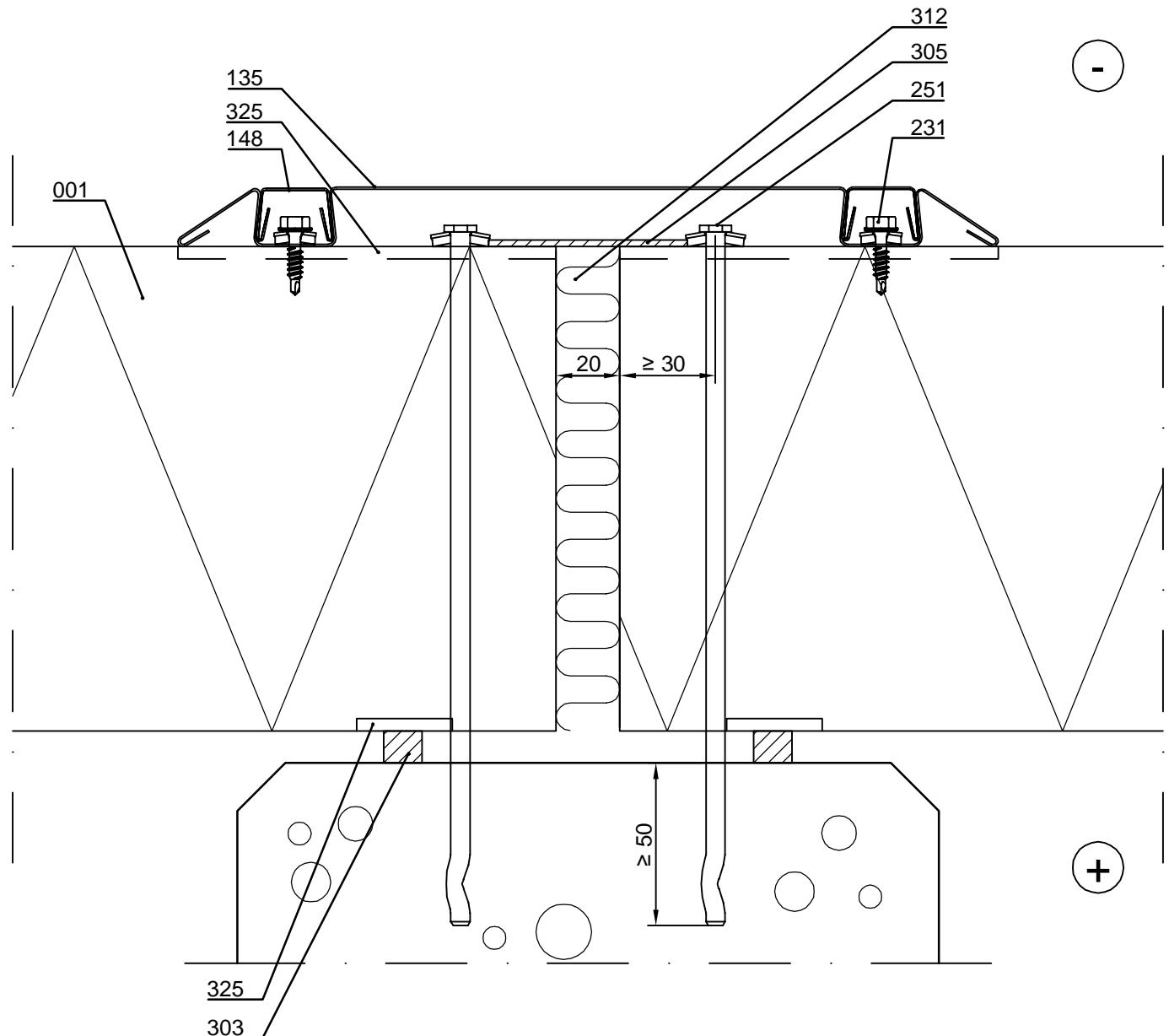


- 001. Sandwich panel SPA
- 131. /EA1JV1/ Vertical joint flashing
- 201. Self-drilling element screw, washer with sealing
- 231. Flashing fastener, washer with sealing
- 302. /EA3SS410/ Sealing strip /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)
- Ruukki's delivery

- 305. Ruukki Wind Joint Tape 75 mm
- 312. /EAWS____/ Mineral wool
- 325. Ruukki sealant mastic 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
 Vertical joint, horizontal section
 Concrete column, option 4

Date 01.10.2025	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/ Sealing strip

- Ruukki's delivery

- 305. Ruukki Wind Joint Tape 75 mm
- 312. /EAWS__ / Mineral wool
- 325. Ruukki sealant mastic
during installation to outer female groove in length
equivalent to vertical joint flashing width and
inner female groove in length of sealing

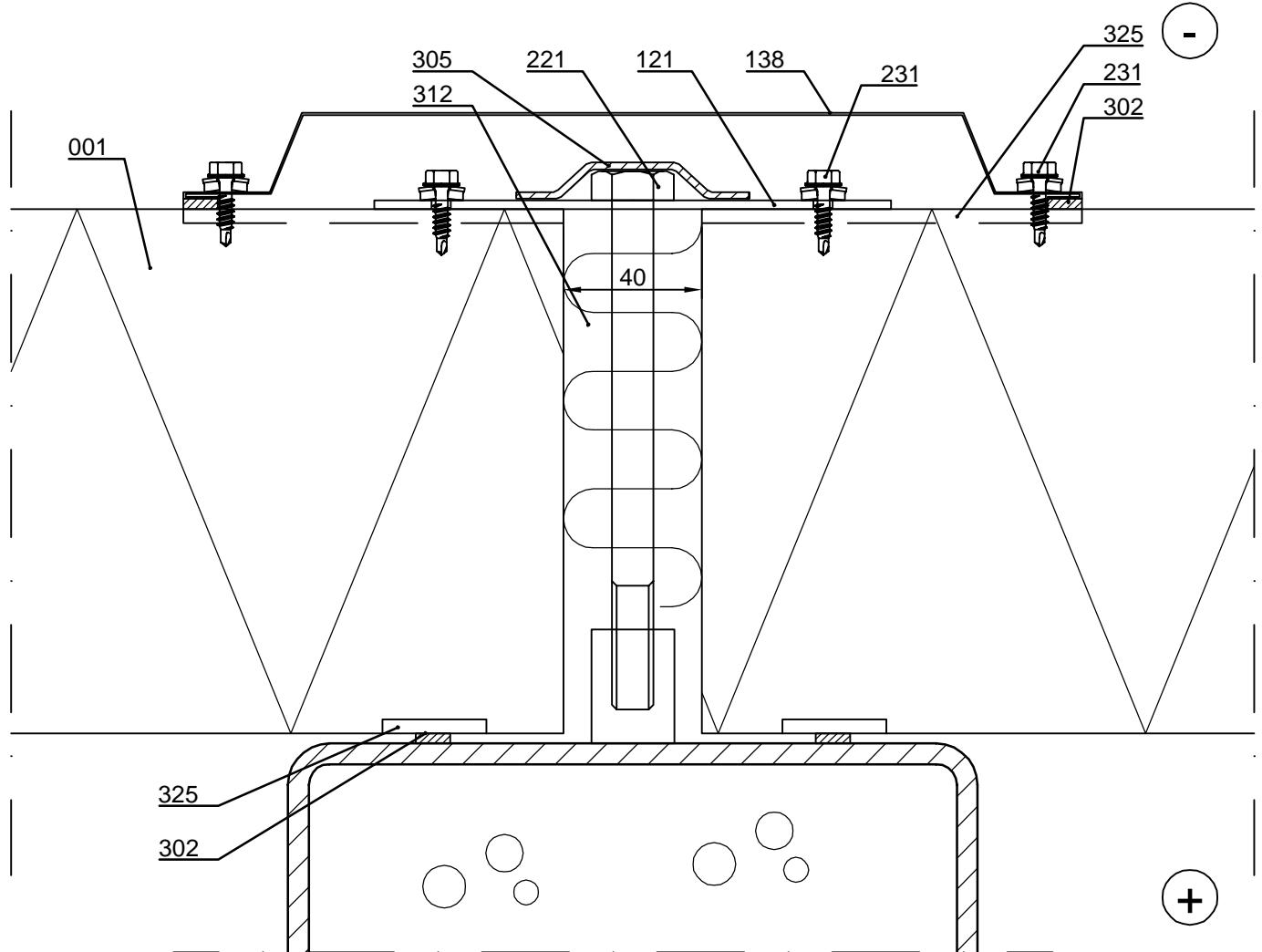
Sandwich panel SPA, horizontal installation
 Vertical joint, horizontal section
 Vemo fastening, option 6

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA03-6E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

Note! The lowest and every 5th panel vertically and panels above an opening must be fixed to support by fasteners going through the panel.

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

Note! For bolt size, see table in SPA installation guide.



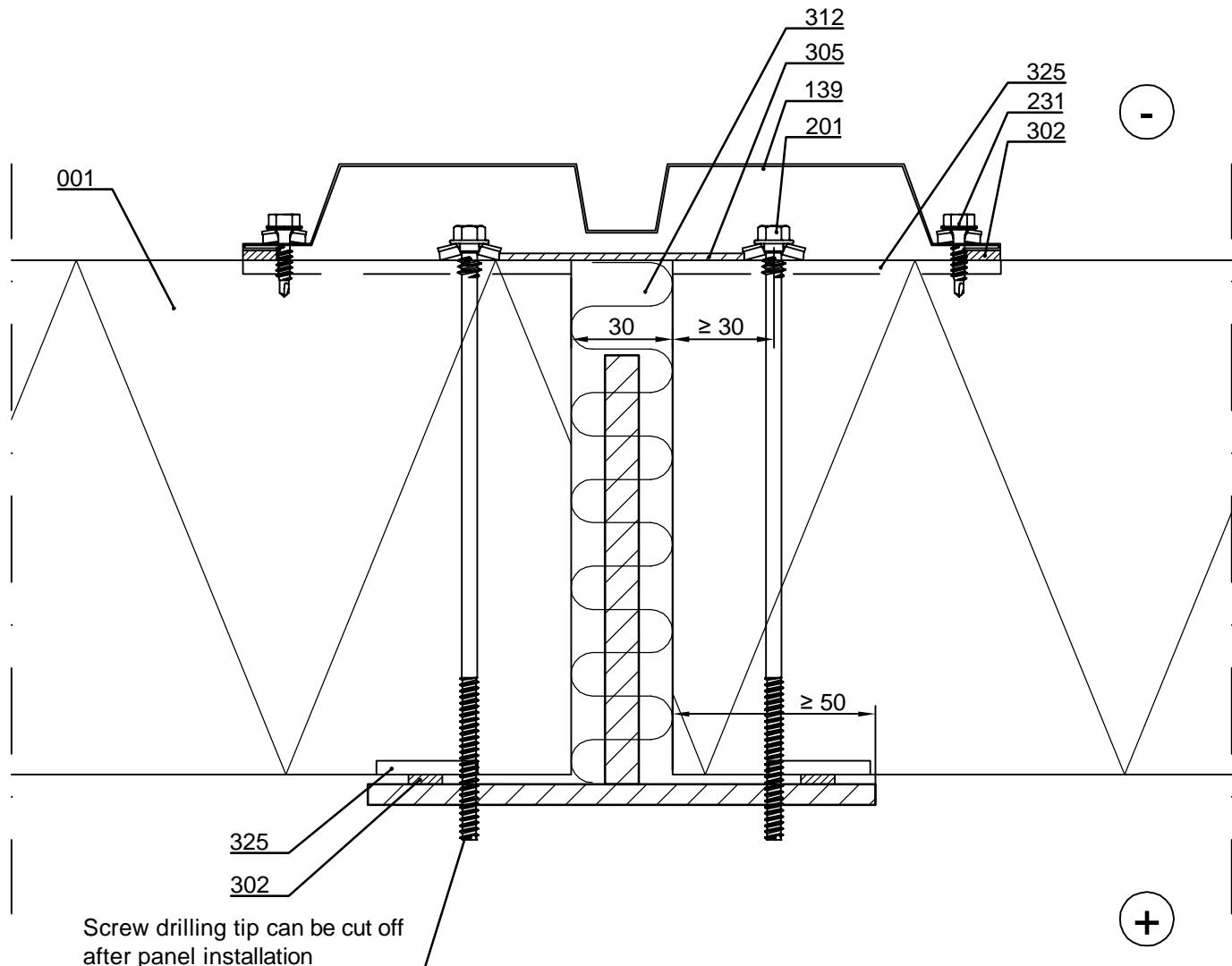
- 001. Sandwich panel SPA
- 121. /EA6FP/ Fastening plate
- 138. /EA1JV2/ Vertical joint flashing
- 221. Internal threaded socket and hex bolt
- 231. Flashing fastener, washer with sealing
- 302. /EA3SS410/ Sealing strip
 $/EA3SS510/$ Sealing band EPDM for flashing
 (for demanding climate conditions e.g. coastal areas)

- Ruukki's delivery

- 305. Ruukki Wind Joint Tape 75 mm
- 312. /EAWS/ Mineral wool
- 325. Ruukki sealant mastic
 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
 Vertical joint, horizontal section
 T-steel, parapet, option 7

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA03-7E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



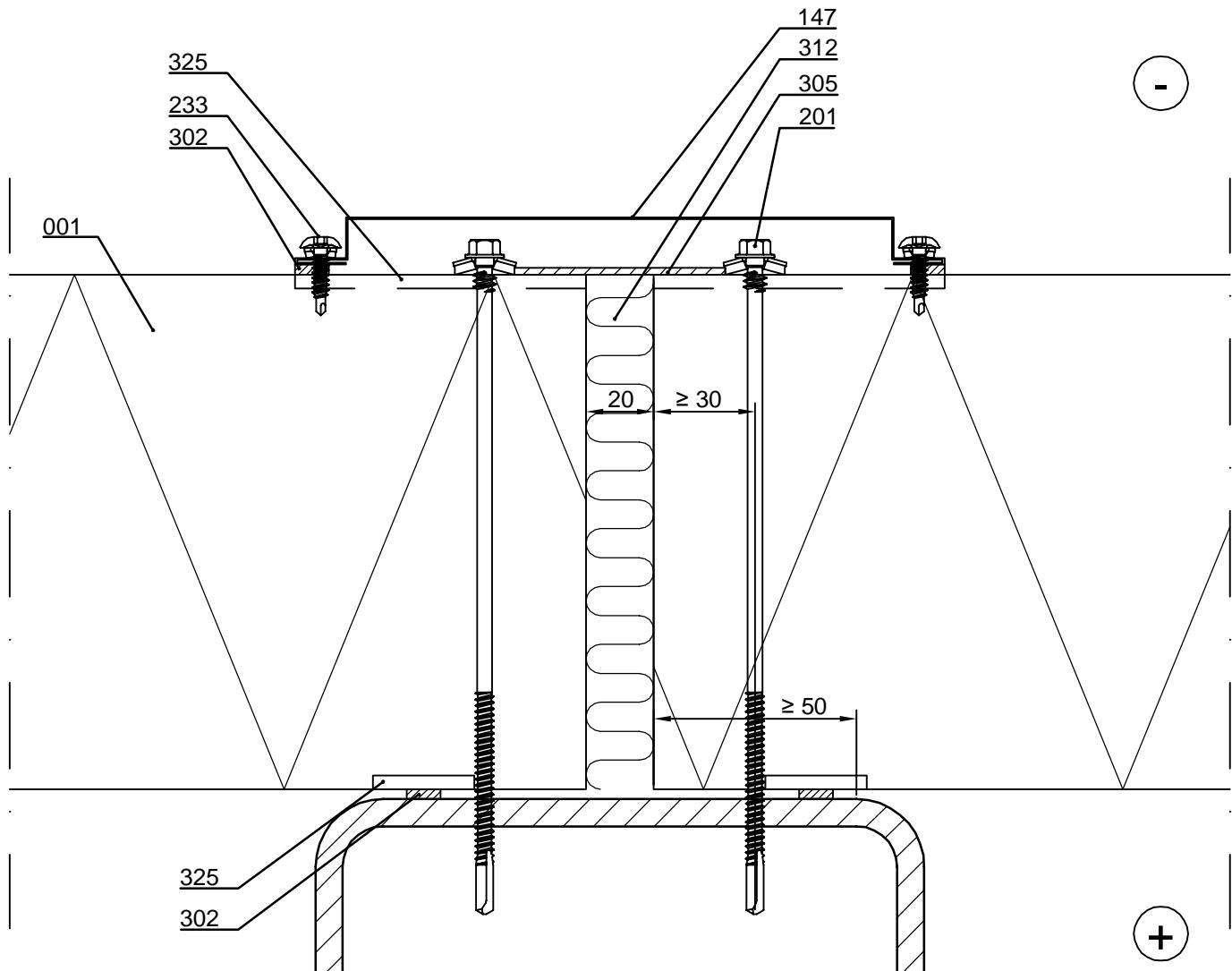
- 001. Sandwich panel SPA
- 139. /EA1JV3/ Vertical joint flashing
- 201. Self-drilling element screw, washer with sealing
- 231. Flashing fastener, washer with sealing
- 302. /EA3SS410/ Sealing strip /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)

- 305. Ruukki Wind Joint Tape 75 mm
- 312. /EAWS____/ Mineral wool
- 325. Ruukki sealant mastic 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
 Vertical joint, horizontal section
 Rectangle hollow section column, option 8

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA03-8E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



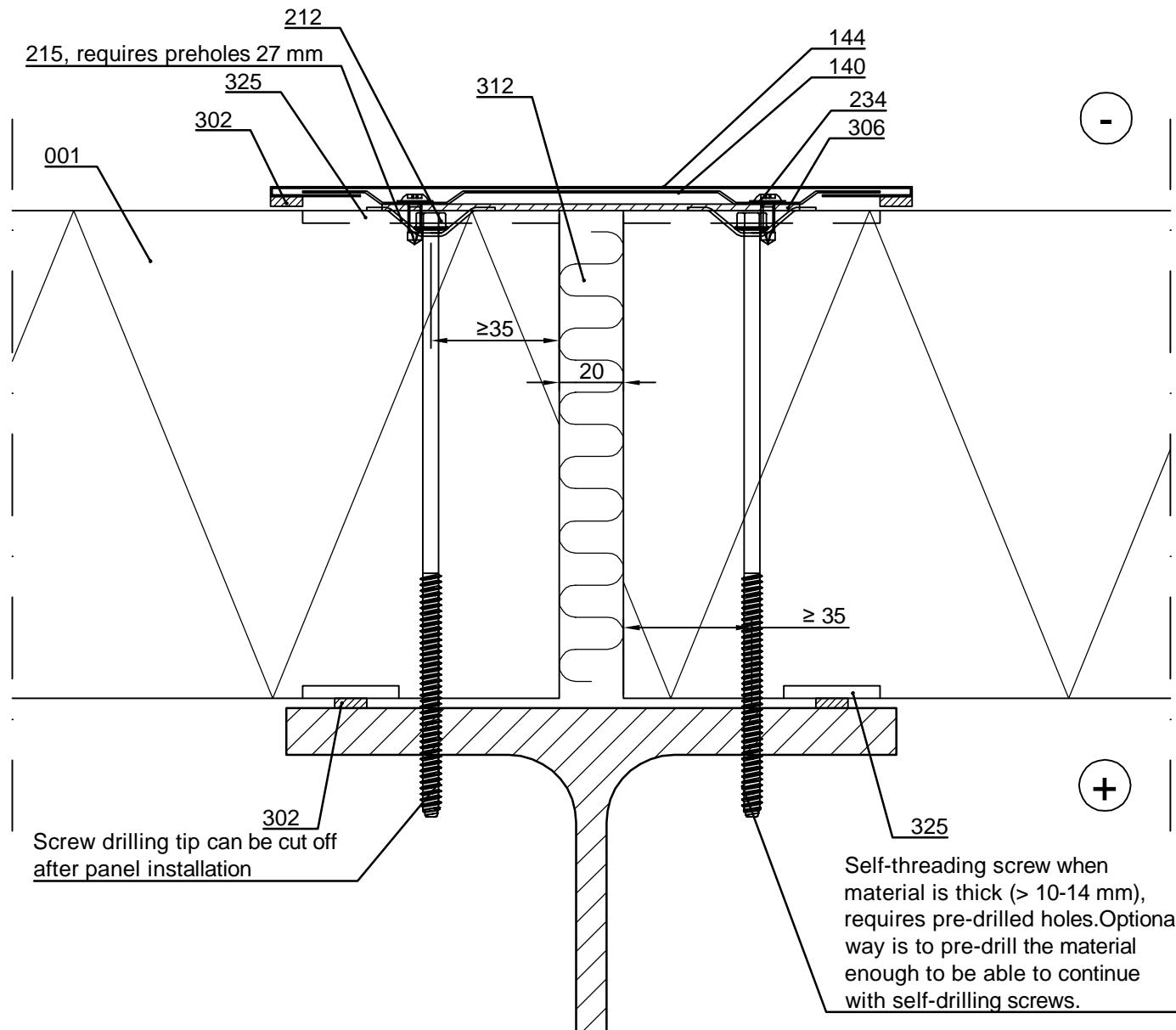
- 001. Sandwich panel SPA
- 147. /EA1JVM/ Vertical joint flashing module
- 201. Self-drilling element screw, washer with sealing
- 233. /S1T48020L02A0RR__/ Flashing fastener
- 302. /EA3SS410/ Sealing strip
<sub>/EA3SS510/ Sealing band EPDM for flashing
 (for demanding climate conditions e.g. coastal areas)</sub>

- Ruukki's delivery

- 305. Ruukki Wind Joint Tape 75 mm
- 312. /EAWS__/ Mineral wool
- 325. Ruukki sealant mastic
 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
 Vertical joint, horizontal section
 Invisible flashing

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA03-30E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



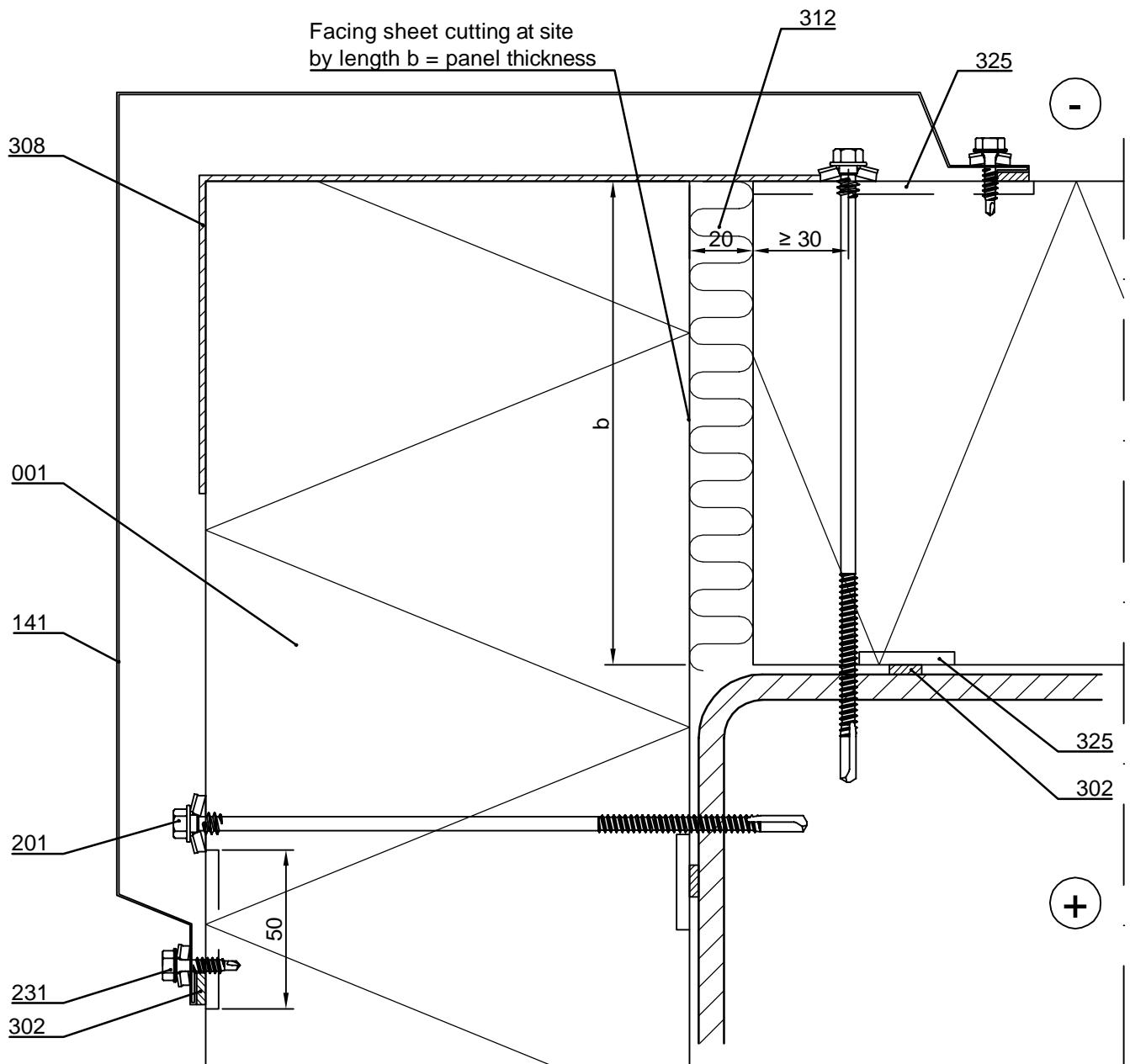
- 001. Sandwich panel SPA
- 140. /EA1JVB4/ Vertical bottom flashing Invisible
- 144. /EA1JVI/ Vertical joint flashing Invisible
- 212. Self-threading element screw, without washer
- 215. /EA2W40-910S/ Countersink washer
- 234. Flat head flashing fastener
- 302. /EA3SS410/ Sealing strip /EA3SS510/ Sealing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

- 306. Ruukki Wind Joint Tape 150 mm
- 312. /EAWS____/ Mineral wool
- 325. Ruukki sealant mastic 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
External corner, horizontal section
Rectangle hollow section column, option 1

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA04-1E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.



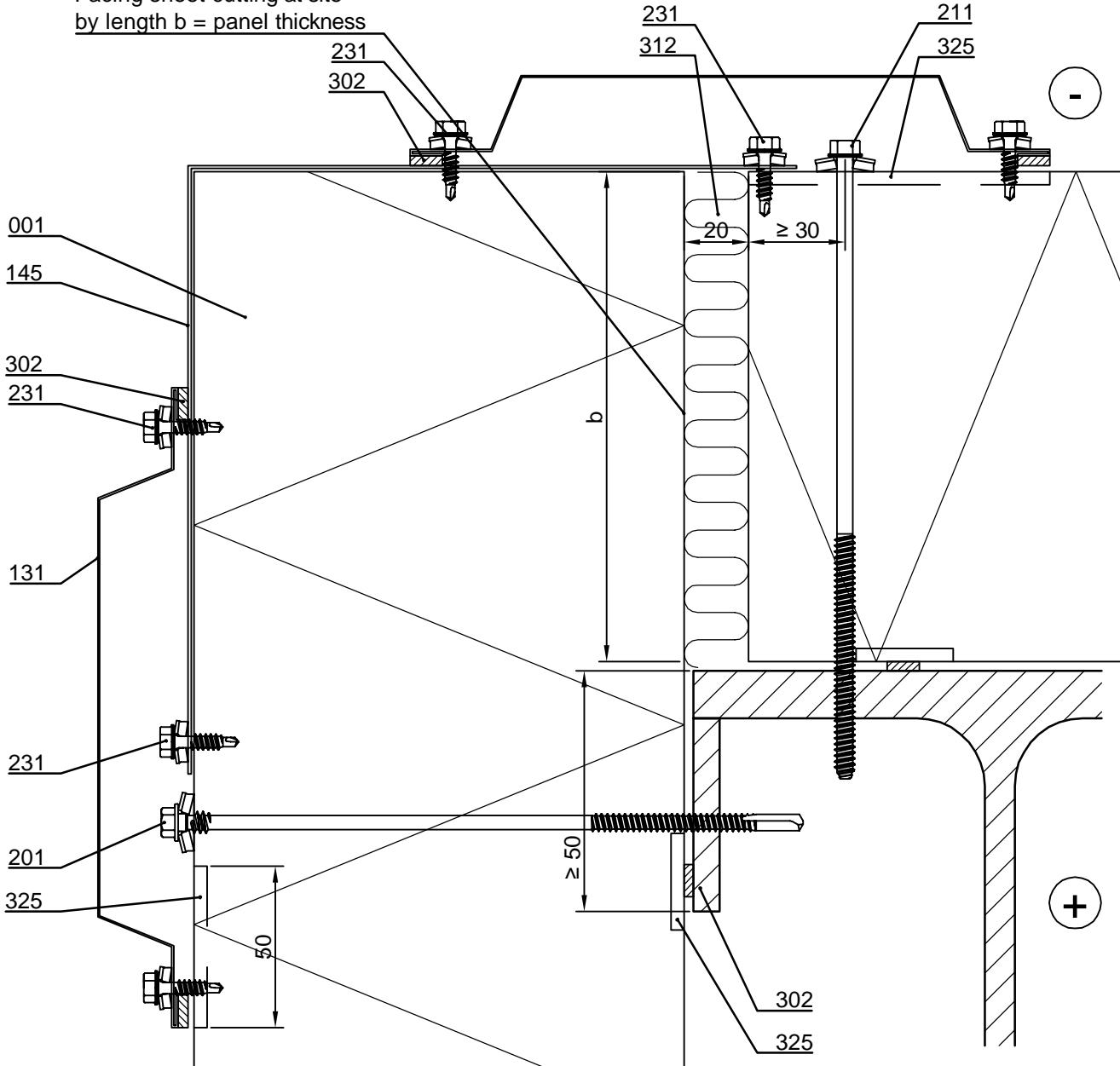
- 001. Sandwich panel SPA
- 141. /EA1EC1-3/ External corner flashing,
recommended panel thickness ≤ 150 mm
- 201. Self-drilling element screw, washer with sealing
- 231. Flashing fastener, washer with sealing
- 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)

- Ruukki's delivery

- 308. Ruukki Wind Joint Tape 300 / 370 mm
- 312. /EAWS____/ Mineral wool
- 325. Ruukki sealant mastic
during installation to outer female groove in length
equivalent to vertical joint flashing width and
inner female groove in length of sealing

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA04-2E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

Facing sheet cutting at site
by length $b = \text{panel thickness}$



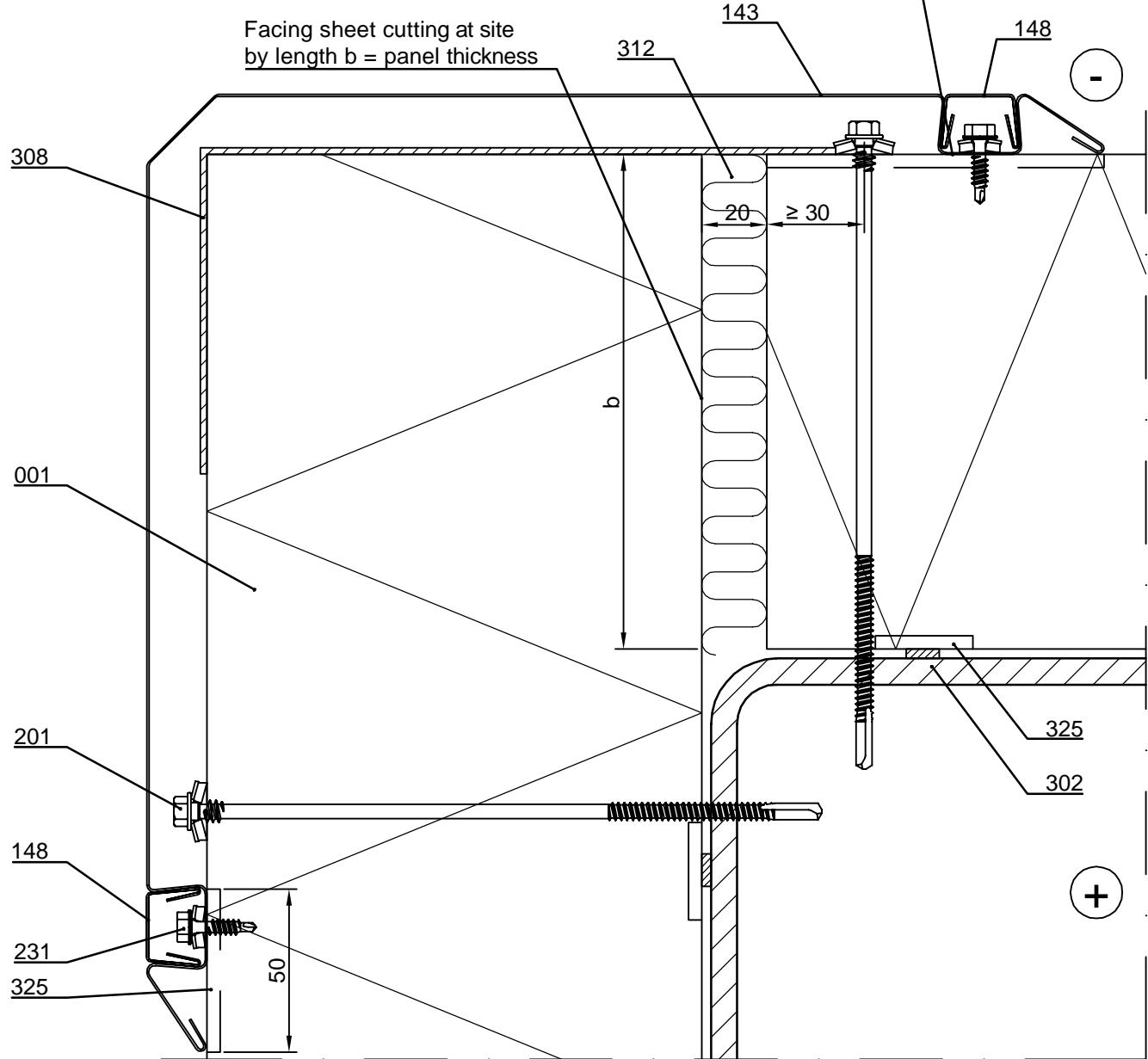
- 001. Sandwich panel SPA
- 131. /EA1JV1/ Vertical joint flashing
- 145. /EA1EC10-____/External corner flashing,
(limited range of colours)
- 201. Self-drilling element screw, washer with sealing
- 211. Self-threading element screw, washer with sealing
- 231. Flashing fastener, washer with sealing
- 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
312. /EAWS____/ Mineral wool
- 325. Ruukki sealant mastic
- 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
Rectangle hollow section column, option 4

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA04-4E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

321, sealant under the flashing during installation

Facing sheet cutting at site
by length b = panel thickness



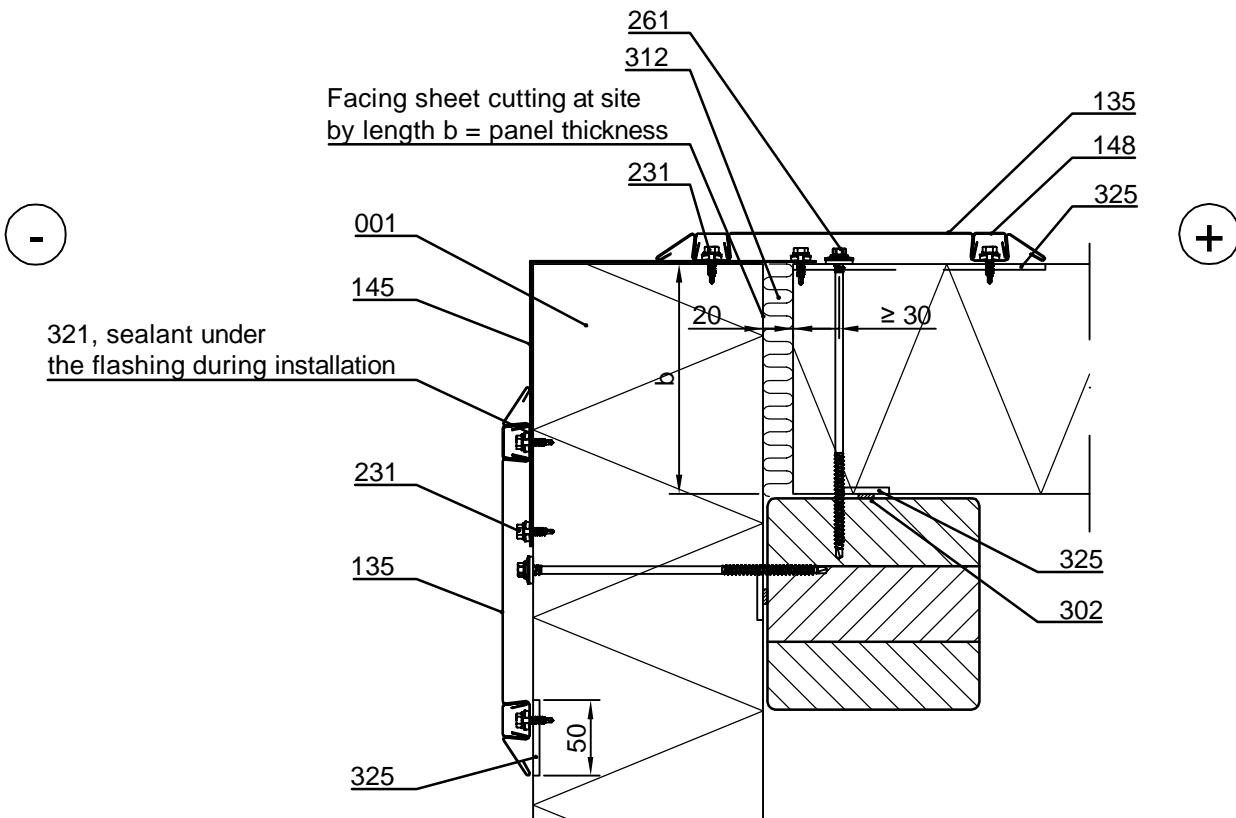
- 001. Sandwich panel SPA
- 143. /EA1EC5/ External corner flashing,
recommended panel thickness ≤ 150 mm
- 148. /EA1VCO/ Vertical cover flashing
- 201. Self-drilling element screw, washer with sealing
- 231. Flashing fastener, washer with sealing
- 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)

- Ruukki's delivery

- 308. Ruukki Wind Joint Tape 300 / 370 mm
- 312. /EAWS____/ Mineral wool
- 321. Ruukki sealant mastic
- 325. Ruukki sealant mastic
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
Laminated timber column, option 5

Date 01.10.2025	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, $t = 1 \text{ mm} / 1.2 \text{ mm}$ (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
- 321. Ruukki sealant mastic
- 325. Ruukki sealant mastic
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

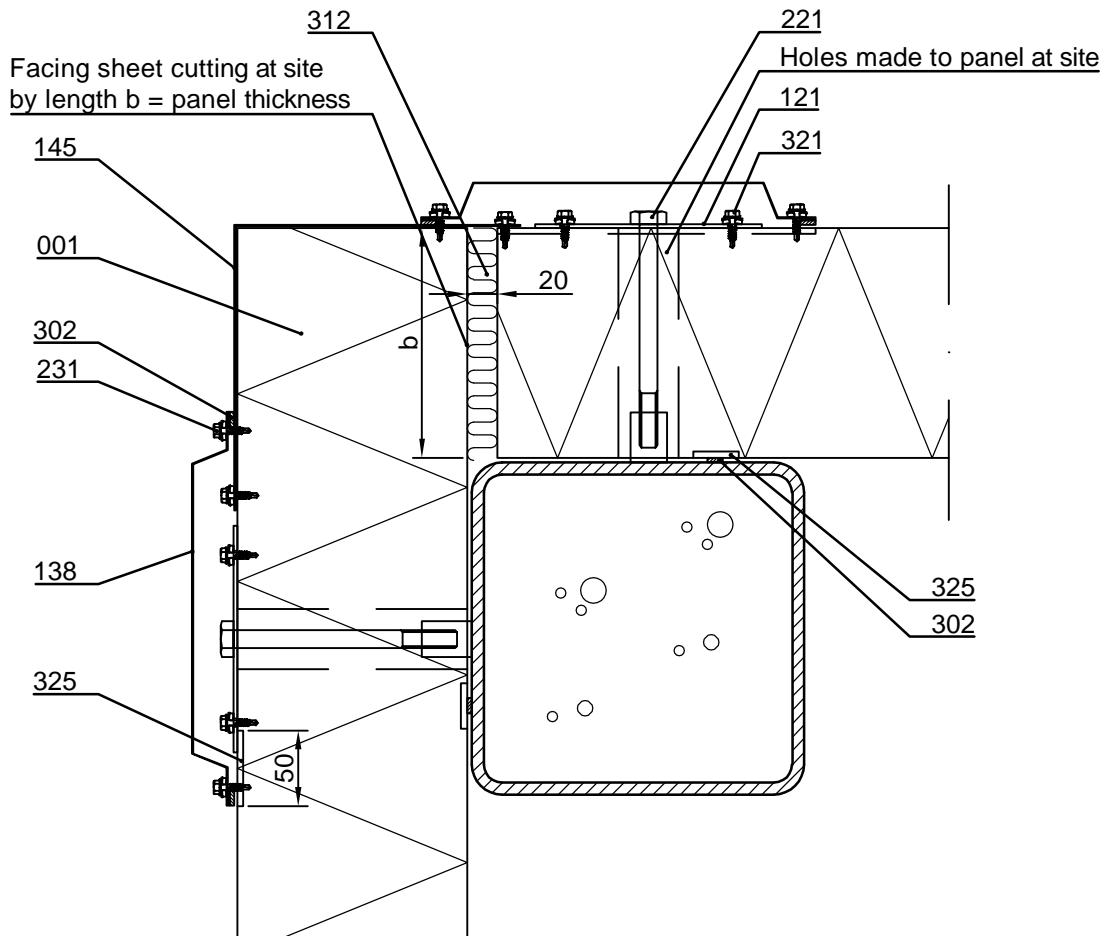
Sandwich panel SPA, horizontal installation
External corner, horizontal section
Concrete filled column, option 6

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA04-6E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

Note! The lowest and every 5th panel vertically and panels above an opening must be fixed to support by fasteners going through the panel.

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

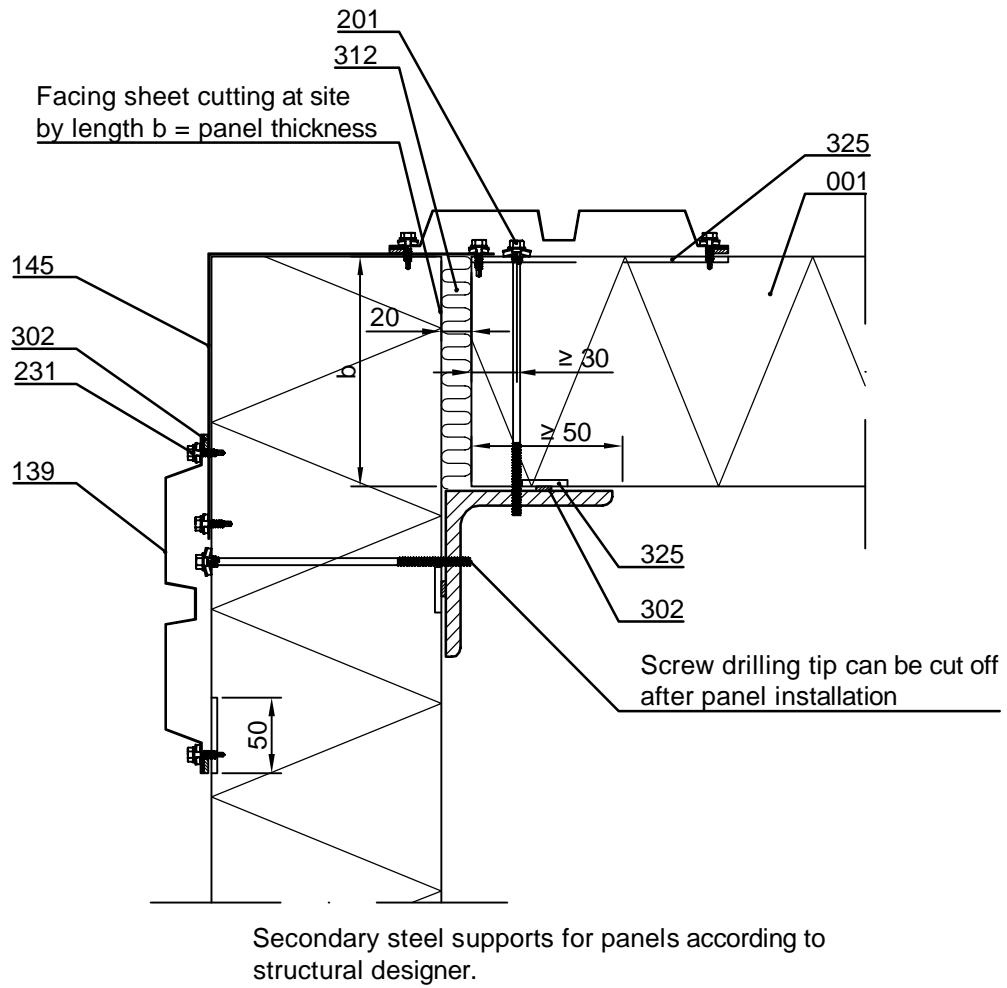
Note! For bolt size, see SPA installation guide



- 001. Sandwich panel SPA
- 121. /EA6FP_ / Fastening plate
- 138. /EA1JV2/ Vertical joint flashing
- 145. /EA1C10-__/ External corner flashing, $t = 1 \text{ mm} / 1.2 \text{ mm}$ (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
- 325. Ruukki sealant mastic
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
External corner, horizontal section
L-steel, parapet, option 9

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA04-9E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



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
- 325. Ruukki sealant mastic
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

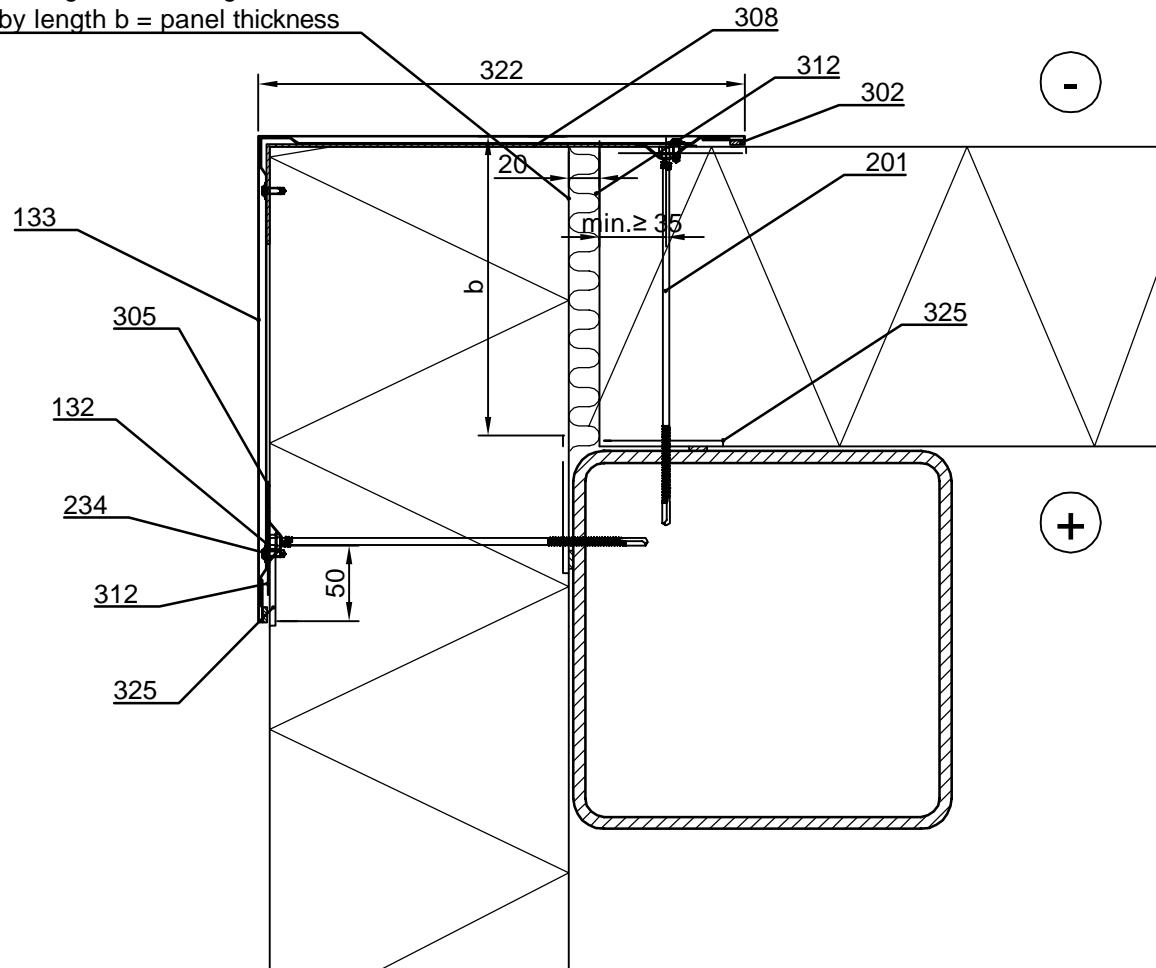


Contents of drawing

Sandwich panel SPA 150-200, horizontal installation
External corner, horizontal section
Invisible flashing

Date 01.10.2025	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 $b = \text{panel thickness}$



- 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. Flat head flashing fastener
- 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)

- 305. Ruukki Wind Joint Tape 75 mm
- 308. Ruukki Wind Joint Tape 300 / 370 mm
- 312. /EAWS ____ / Mineral wool
- 325. Ruukki sealant mastic
 - 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

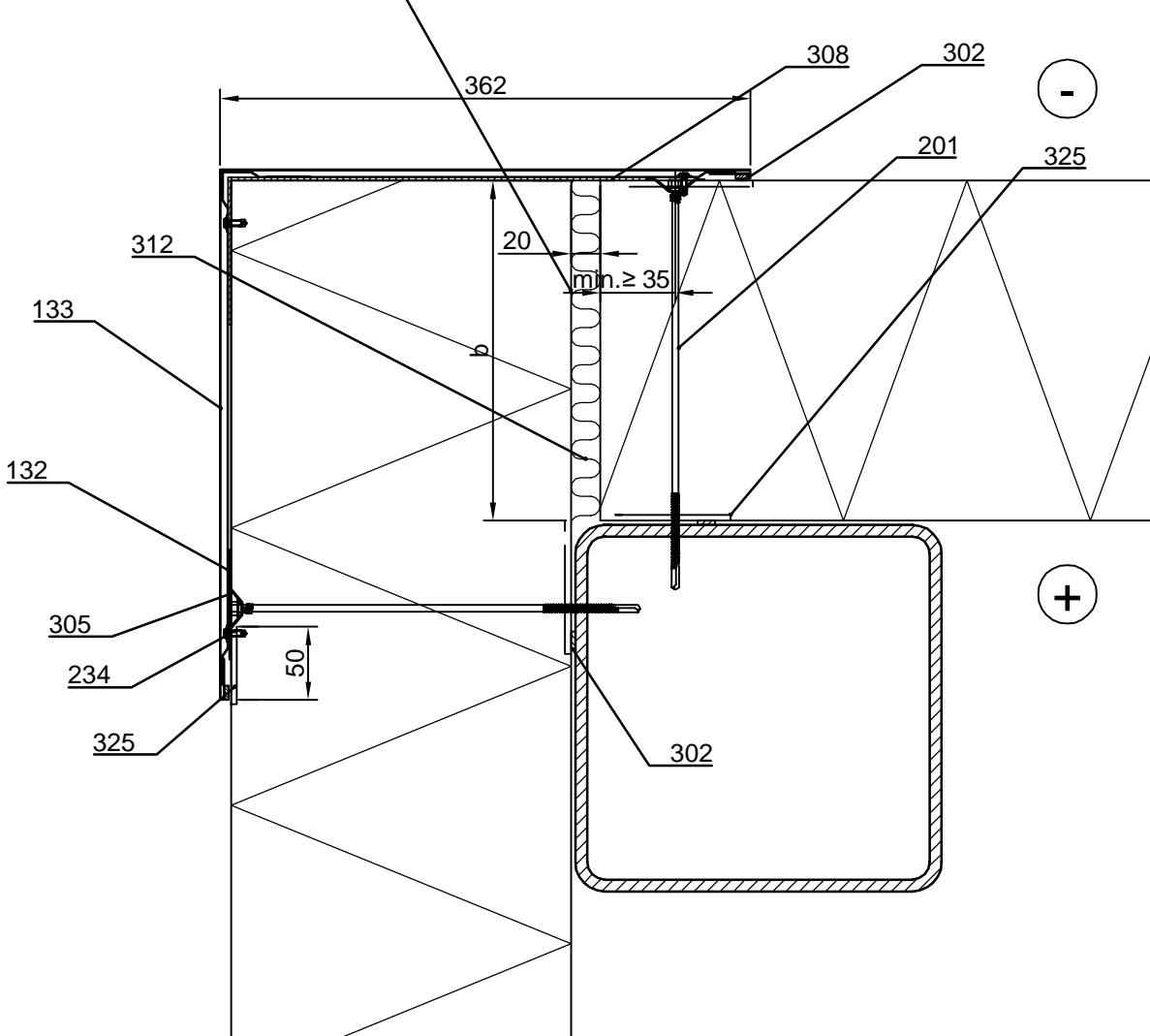


Contents of drawing

Sandwich panel SPA 230, horizontal installation
External corner, horizontal section
Invisible flashing

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA04-31E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

Facing sheet cutting at site
by length $b = \text{panel thickness}$



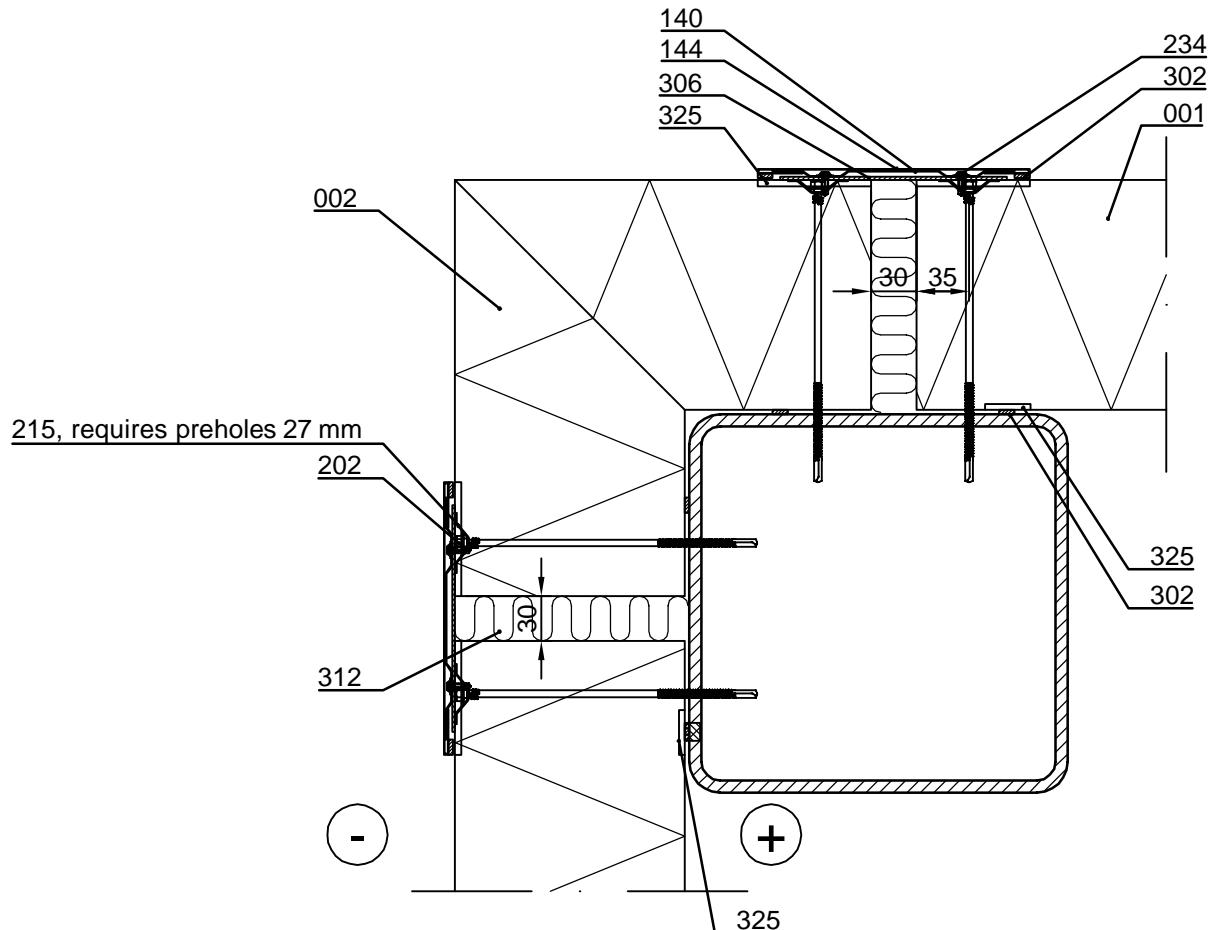
- 001. Sandwich panel SPA
- 132. /EA1EXB6/ Corner bottom flashing Invisible
- 133. /EA1ECI2/ External corner flashing Invisible
- 201. Self-drilling element screw, washer with sealing
- 215. /EA2W40-910S/ Countersink washer
- 234. Flat head flashing fastener
- 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)

- 305. Ruukki Wind Joint Tape 75 mm
- 308. Ruukki Wind Joint Tape 300 / 370 mm
- 312. /EAWS____/ Mineral wool
- 325. Ruukki sealant mastic
 - 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
External corner, horizontal section
Invisible flashing

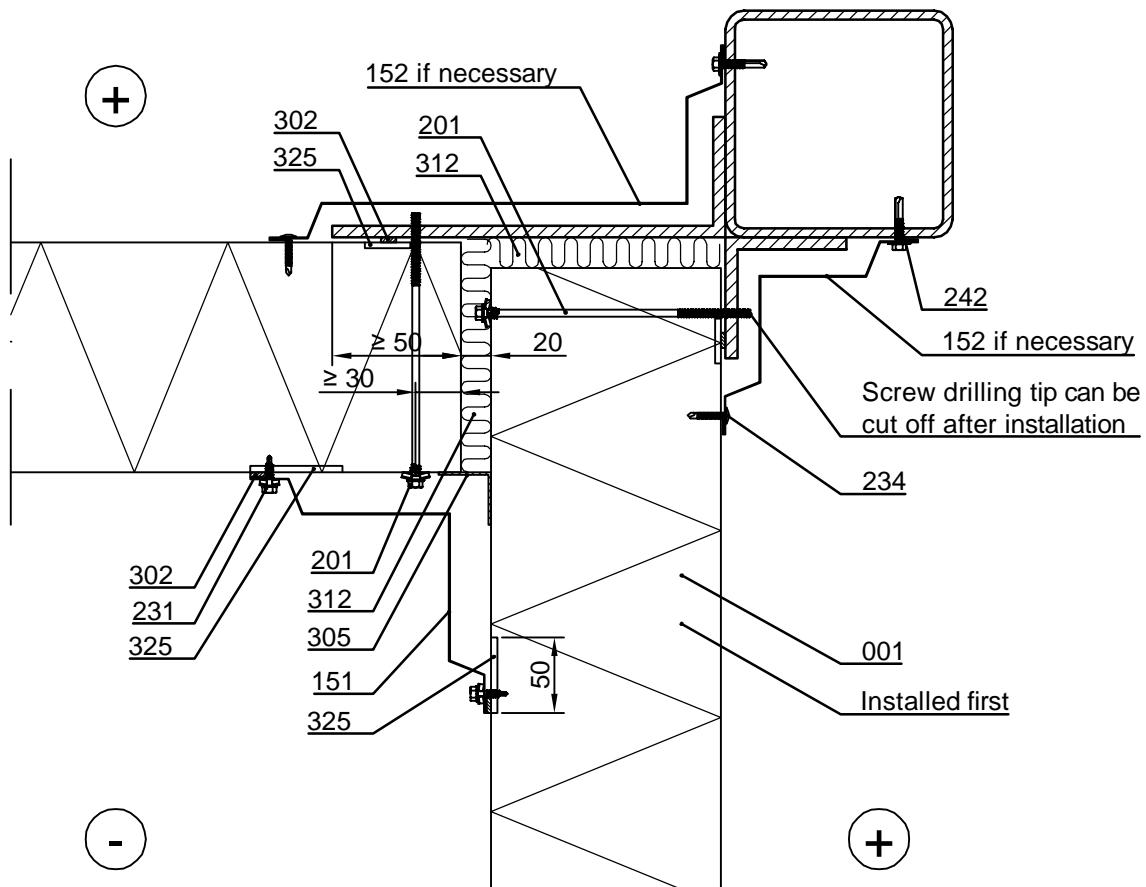
Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA04-33E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



- 001. Sandwich panel SPA
- 002. Sandwich panel SPA corner panel,
(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. Flat head flashing fastener
- 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)
- 306. Ruukki Wind Joint Tape 150 mm
- 312. /EAWS____/ Mineral wool
- 325. Ruukki sealant mastic
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
Rectangle hollow section column, option 1

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA05-1E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



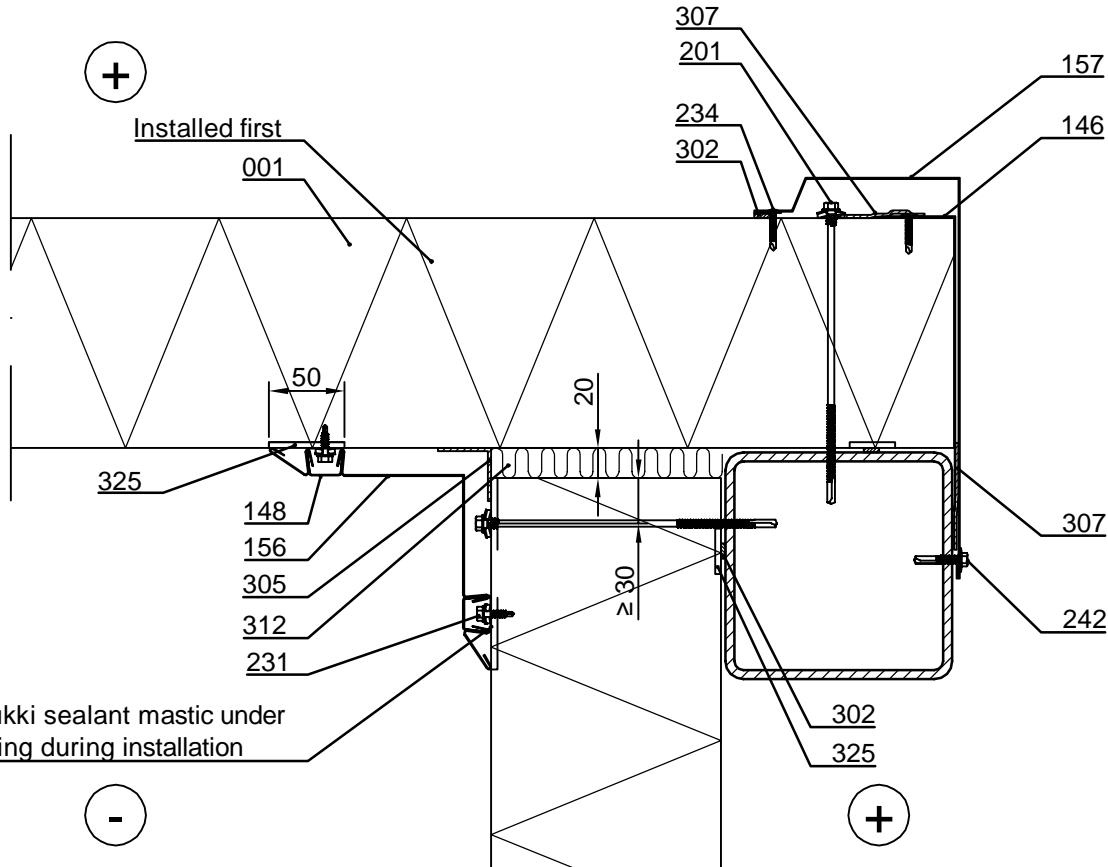
- 001. Sandwich panel SPA
- 151. /EA1IC3/ Internal corner flashing
- 152. Internal corner flashing, $t = 0.6$ mm, according to project
- 201. Self-drilling element screw, washer with sealing
- 231. Flashing fastener, washer with sealing
- 234. Flat head flashing fastener
- 242. Fastener screw, without washer
- 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
- 305. Ruukki Wind Joint Tape 75 mm
- 312. /EAWS____/ Mineral wool
- 325. Ruukki sealant mastic
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
Internal corner, horizontal section
Rectangle hollow section column, option 2

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA05-2E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



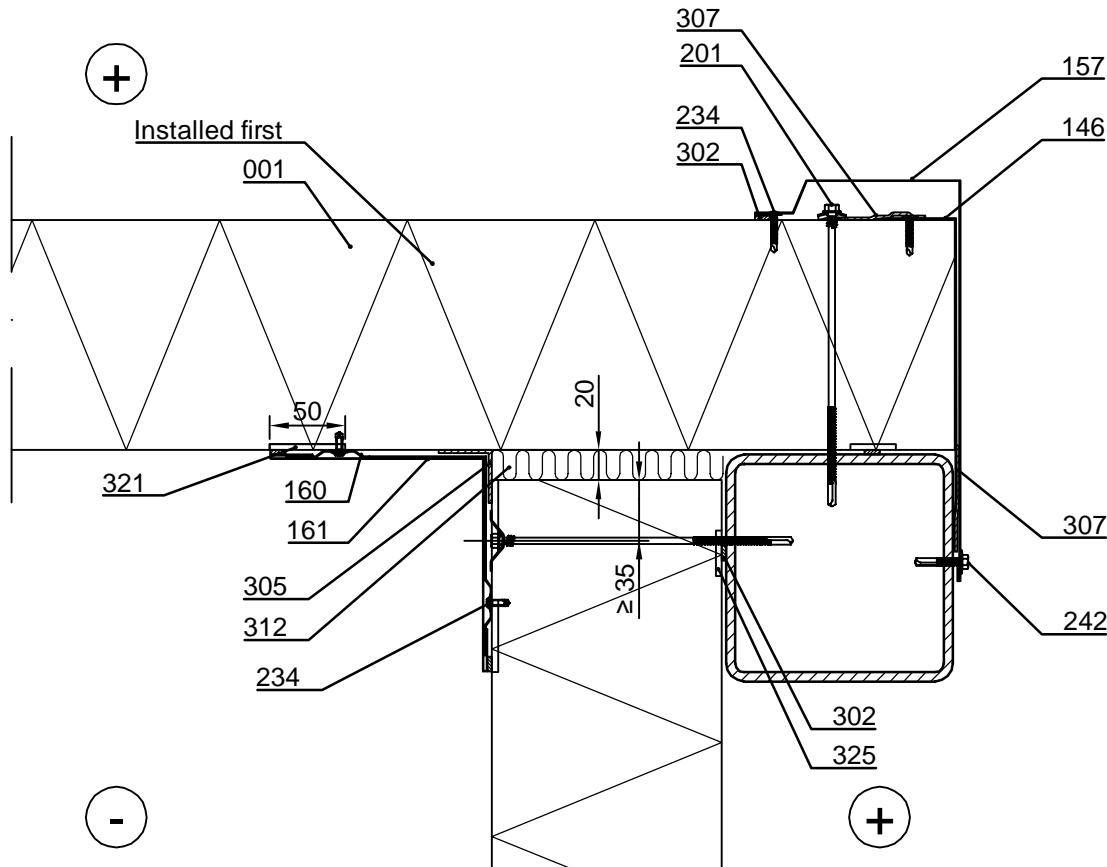
321, Ruukki sealant mastic under the flashing during installation

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. Ruukki Wind Joint Tape 75 mm
- 312. /EAWS____/ Mineral wool
- 321. Ruukki sealant mastic
- 325. Ruukki sealant mastic
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
Internal corner, horizontal section
Invisible flashing

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA05-30E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



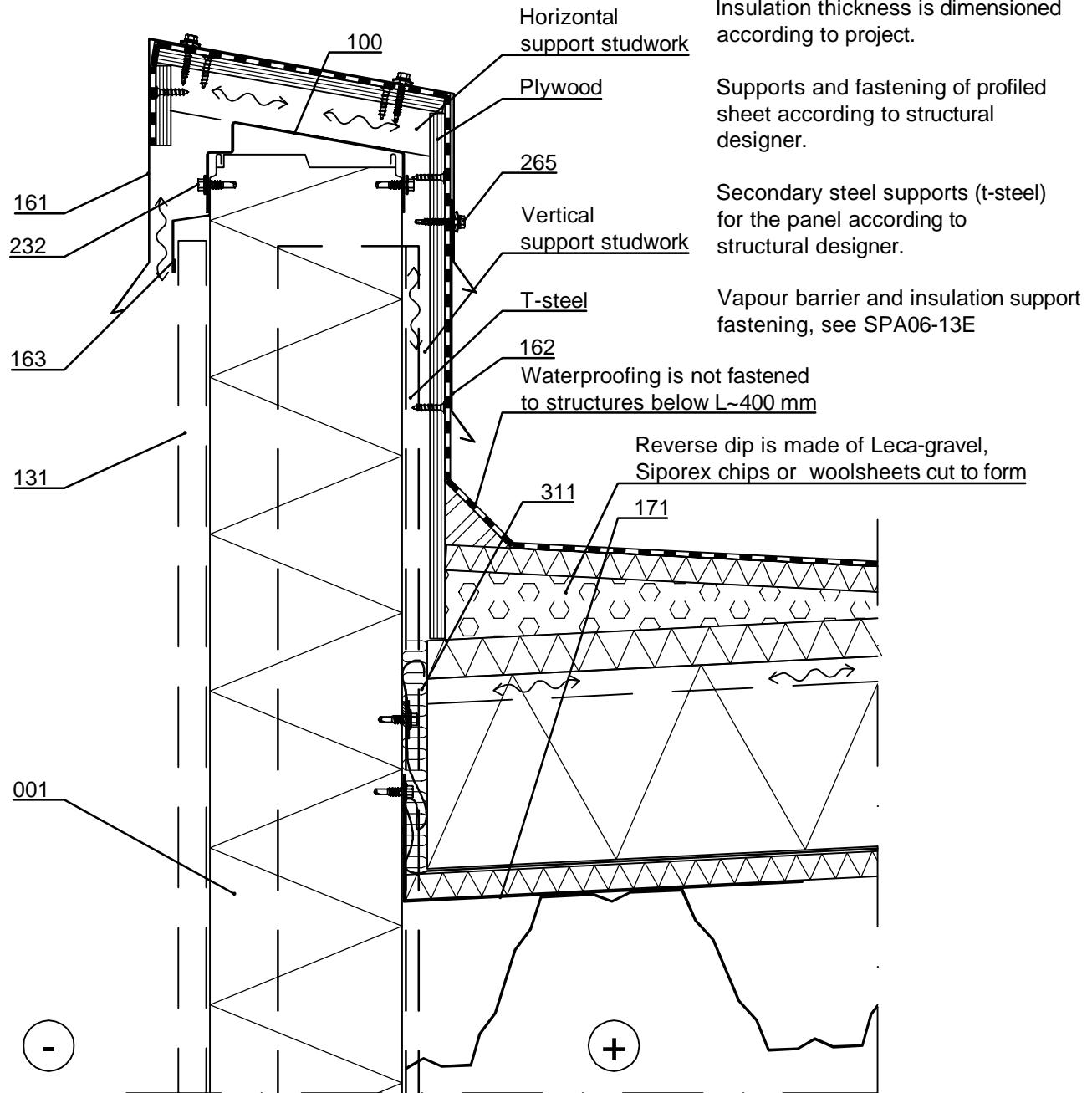
- 001. Sandwich panel SPA
- 146. /EA1EC9-___/ External corner flashing
- 157. Cover flashing $t = 0.6$ mm, according to project
- 160. /EA1IXBI/ Internal corner bottom flashing Invisible
- 161. /EA1ICI/ Internal corner flashing Invisible
- 201. Self-drilling screw, washer with sealing
- 215. /EA2W40-910S/ Countersink washer
- 231. Flashing fastener, washer with sealing
- 234. Flat head flashing fastener
- 242. Screw, without washer

- Ruukki's delivery

- 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
- 305. Ruukki Wind Joint Tape 75 mm
- 312. /EAWS___/ Mineral wool
- 321. Ruukki sealant mastic
- 325. Ruukki sealant mastic
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
Parapet, side eaves
Bitumen roofing felt, vertical section

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA06-1E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

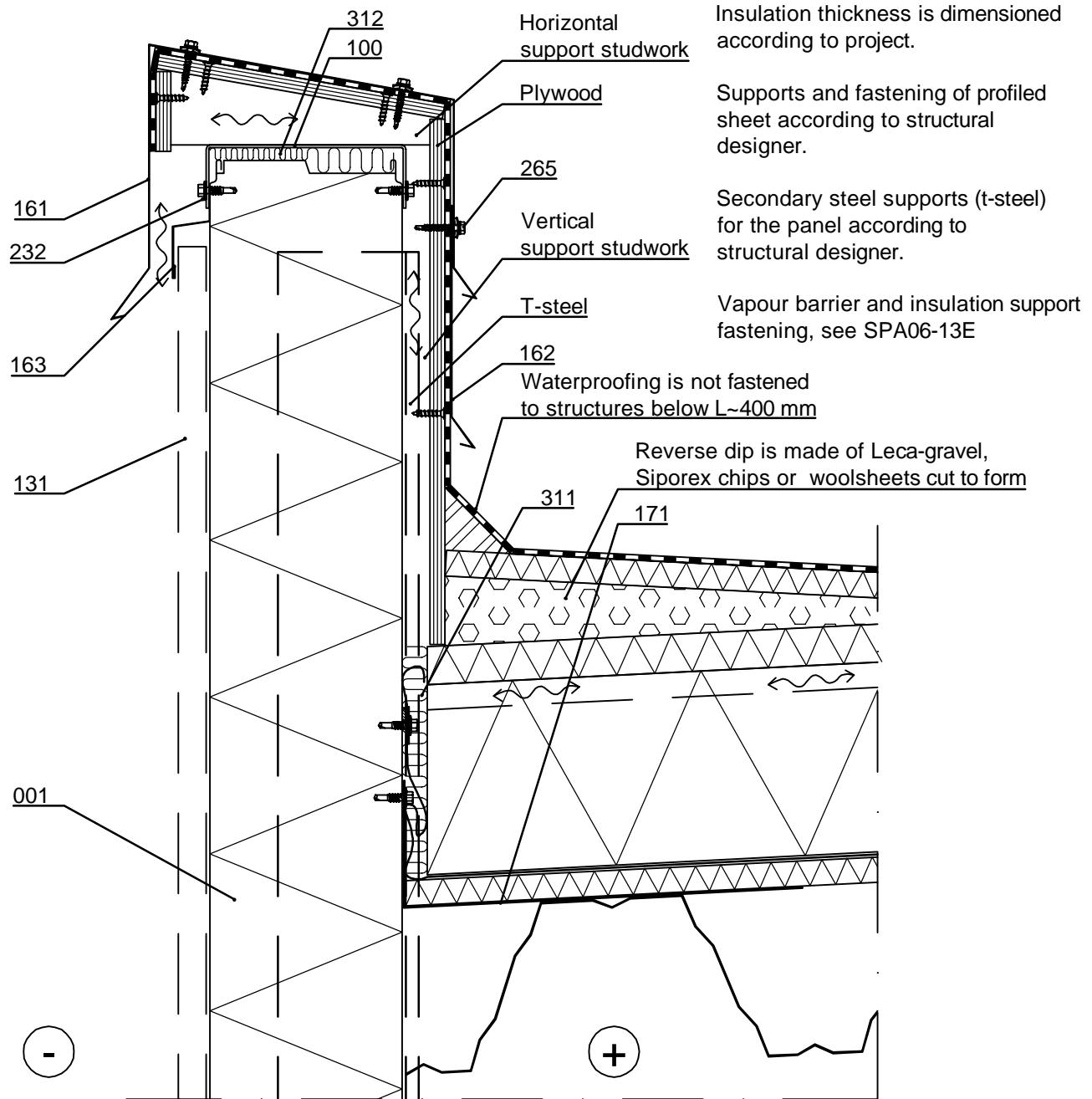


- 001. Sandwich panel SPA
- 100. /EA1EP / Purlin
- 131. /EA1JV1/ Vertical joint flashing
- 161. Eave flashing, $t = 0.6$ mm, according to project
- 162. Cover flashing, $t = 0.6$ mm, according to project
- 163. Storm flashing, $t = 0.6$ mm, according to project
- Ruukki's delivery

- 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. Mineral wool

Sandwich panel SPA, horizontal installation
Parapet, side eaves
Bitumen roofing felt, vertical section

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA06-1E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



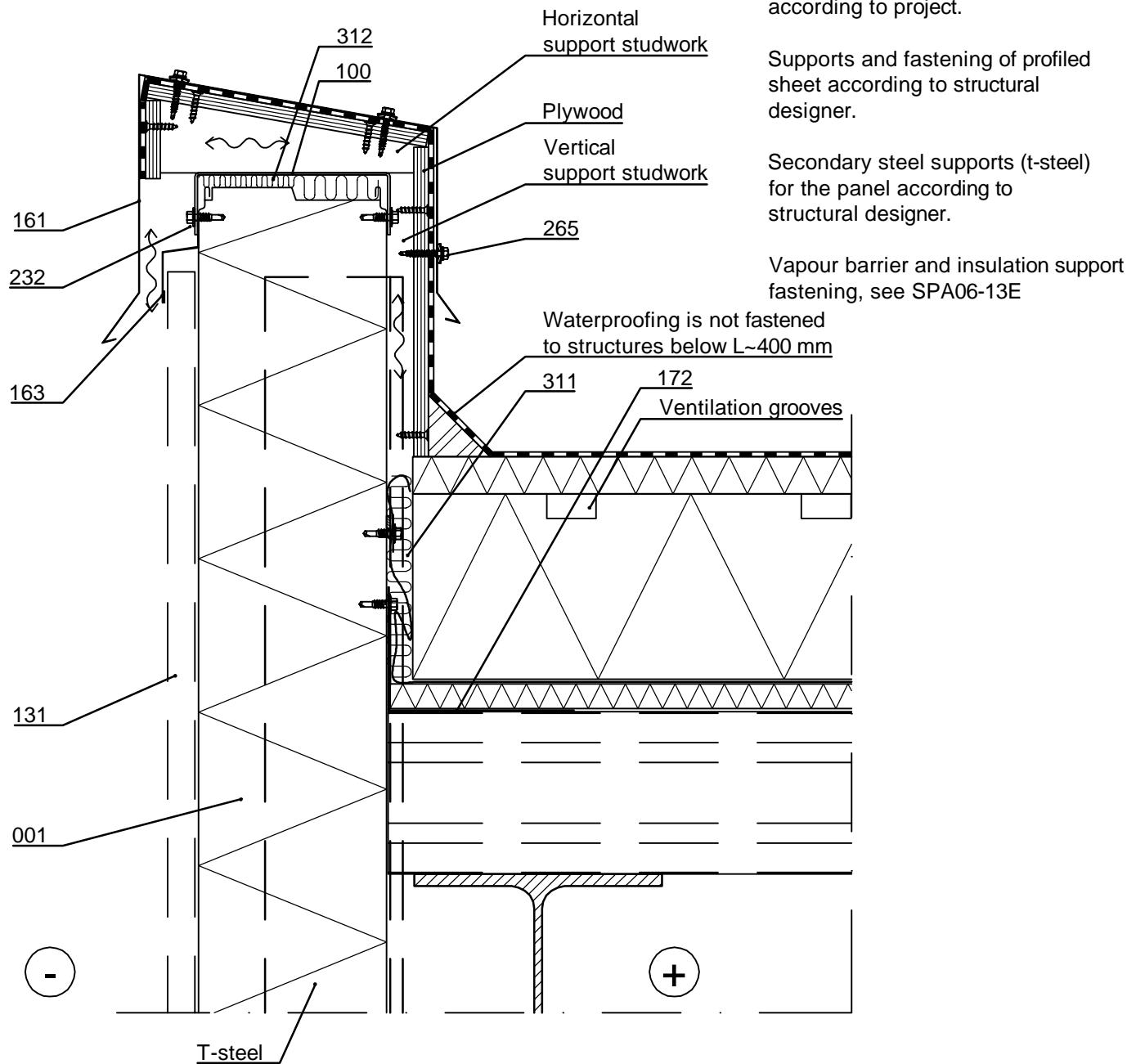
- 001. Sandwich panel SPA
- 100. /EA1EPF___/ Purlin
- 131. /EA1JV1/ Vertical joint flashing
- 161. Eave flashing, $t = 0.6$ mm, according to project
- 162. Cover flashing, $t = 0.6$ mm, according to project
- 163. Storm flashing, $t = 0.6$ mm, according to project

- Ruukki's delivery

- 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. Mineral wool
- 312. /EAWS___/ Mineral wool

Sandwich panel SPA, horizontal installation
Parapet, end eaves
Bitumen roofing felt, vertical section

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA06-2E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



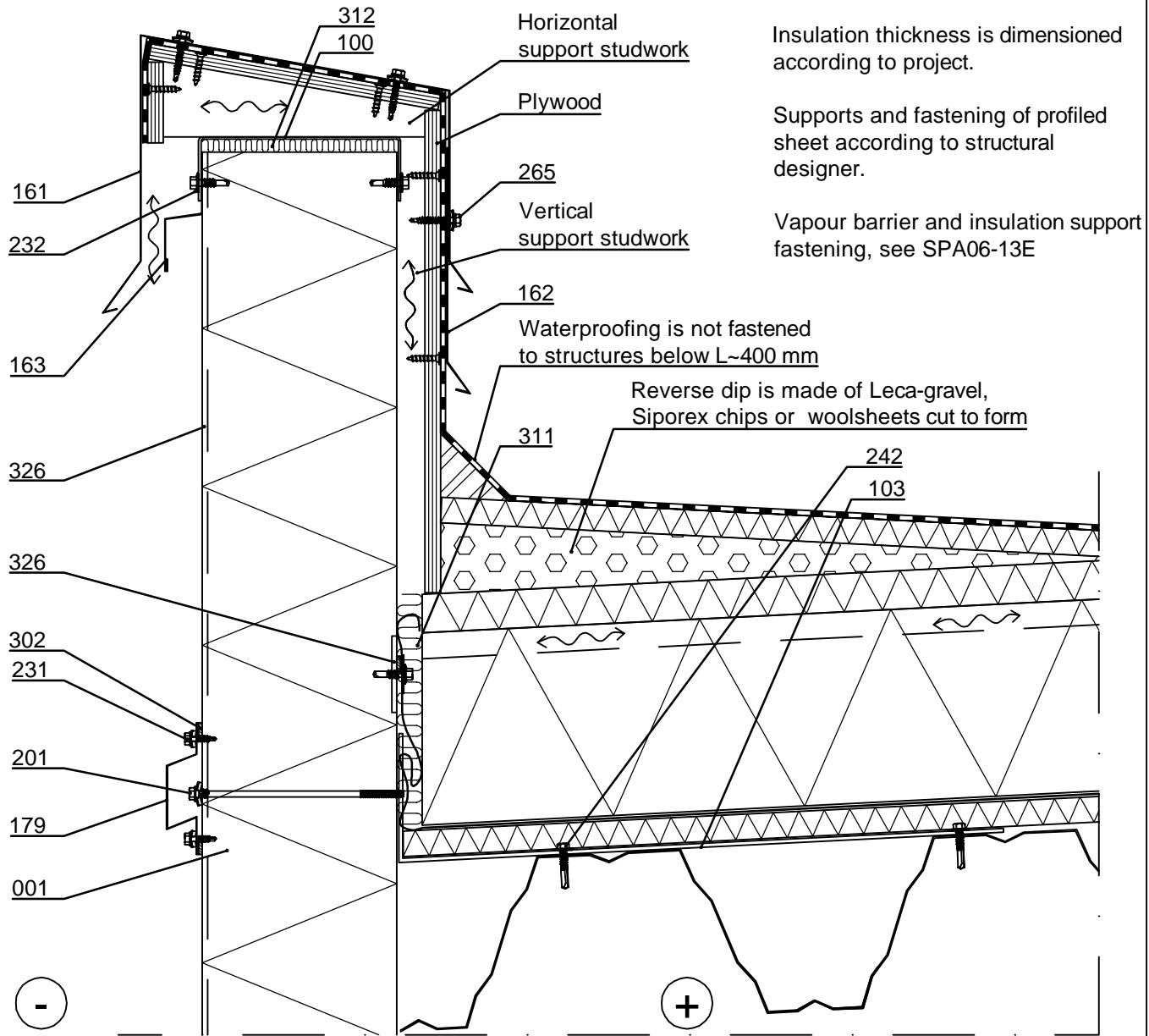
- 001. Sandwich panel SPA
- 100. /EA1EPF___/ Purlin
- 131. /EA1JV1/ Vertical joint flashing
- 161. Eave flashing, $t = 0.6$ mm, according to project
- 163. Storm flashing, $t = 0.6$ mm, according to project

- Ruukki's delivery

- 172. Insulation support flashing, $t = 0.6$ mm
- 232. Flashing fastener, without washer
- 265. Fastener screw to wood, washer with sealing
- 311. Mineral wool
- 312. /EAWS___/ Mineral wool

Sandwich panel SPA, vertical- and diagonal installation. Parapet, side eaves
Bitumen roofing felt, vertical section

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA06-3E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



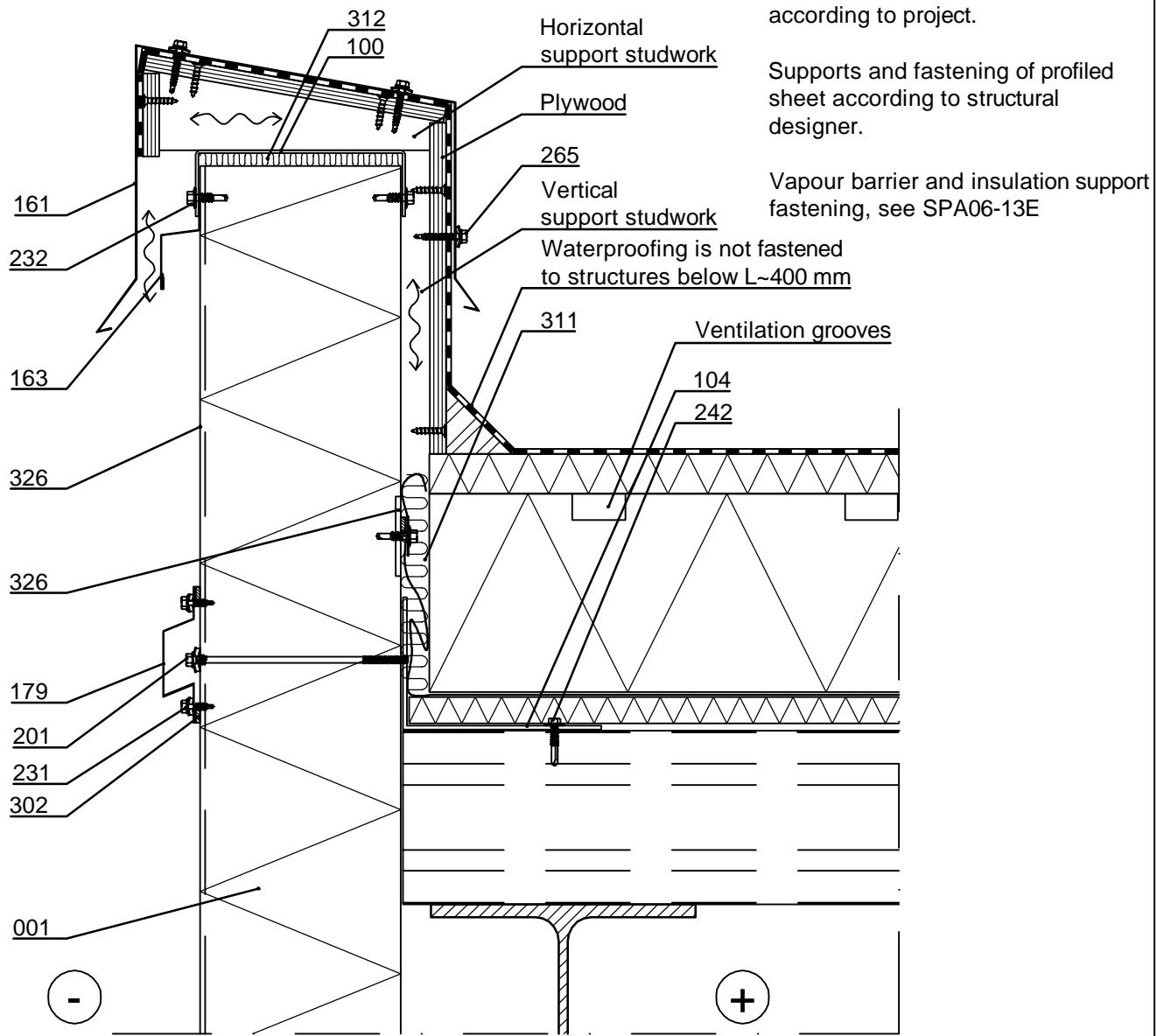
- 001. Sandwich panel SPA
- 100. /EA1EPF____/ Purlin
- 103. Flashing for fastening / insulation support flashing, t=3 mm, according to project
- 161. Eave flashing, t = 0.6 mm, according to project
- 162. Cover flashing, t = 0.6 mm, according to project
- 163. Storm flashing, t = 0.6 mm, according to 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

- Ruukki's delivery

- 232. Flashing fastener, without washer
- 242. Fastener screw, without washer
- 265. Fastener screw to wood, washer with sealing
- 302. /EA3SS410/ Sealing strip
- 311. Mineral wool
- 312. /EAWS____/ Mineral wool
- 325. Ruukki sealant mastic during inst. to outer female groove in full length of panel and inner female groove 60 mm from panel end

Sandwich panel SPA, vertical- and diagonal installation. Parapet, end eaves
Bitumen roofing felt, vertical section

Date 01.10.2025	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.

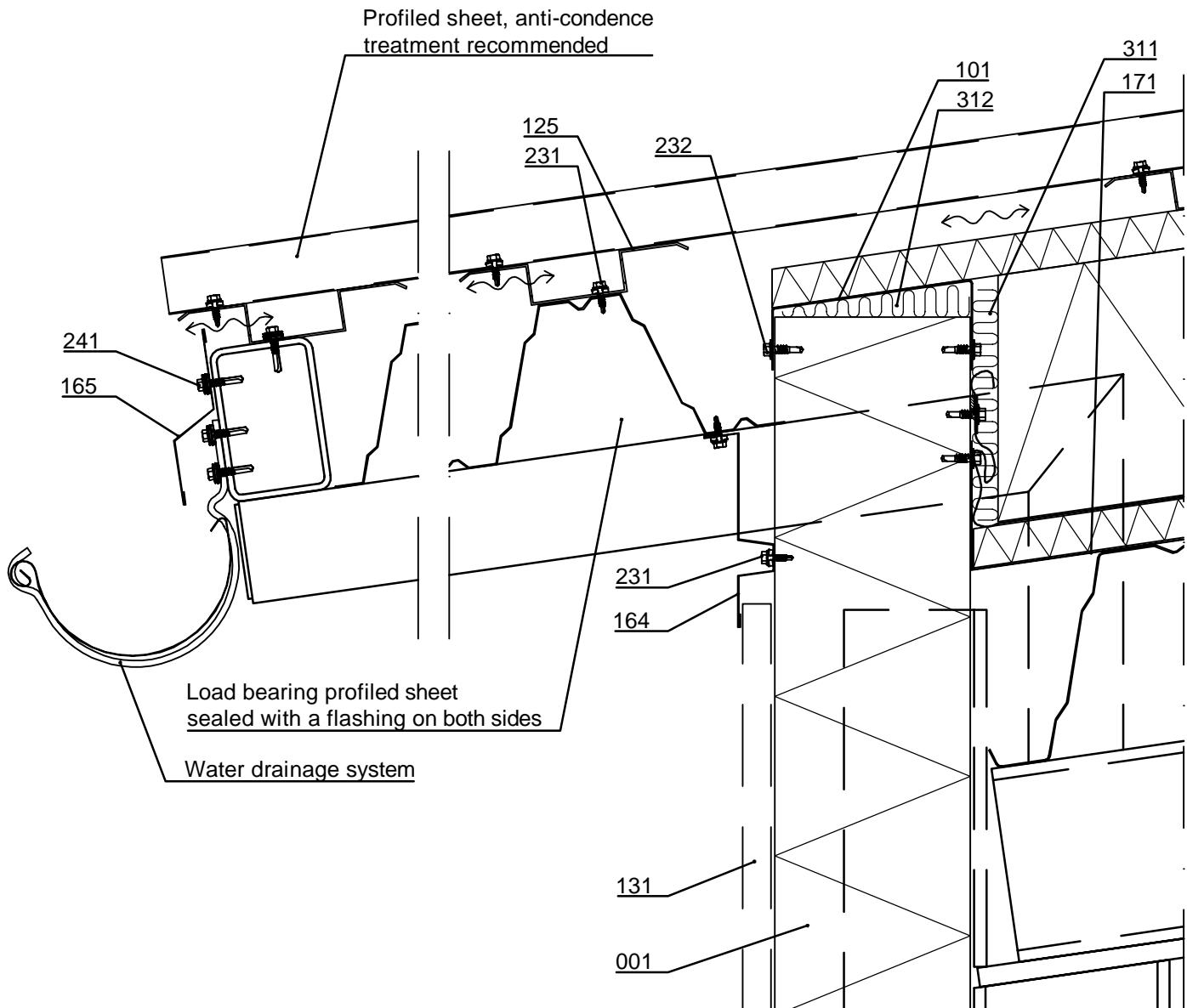
Supports and fastening of profiled sheet according to structural designer.

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

- 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
- Ruukki's delivery
- 232. Flashing fastener, without washer
- 242. Fastener screw, without washer
- 265. Fastener screw to wood, washer with sealing
- 302. /EA3SS410/ Sealing strip
- 311. Mineral wool
- 312. /EAWS____/ Mineral wool
- 325. Ruukki sealant mastic during inst. to outer female groove in full length of panel and inner female groove 60 mm from panel end

Sandwich panel SPA, horizontal installation
Cantilever eaves, side eaves
Profiled sheet roof deck, vertical section

Date 01.10.2025	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. Mineral wool
- 312. /EAWS__/ Mineral wool

- Ruukki's delivery

Insulation thickness is dimensioned according to project.

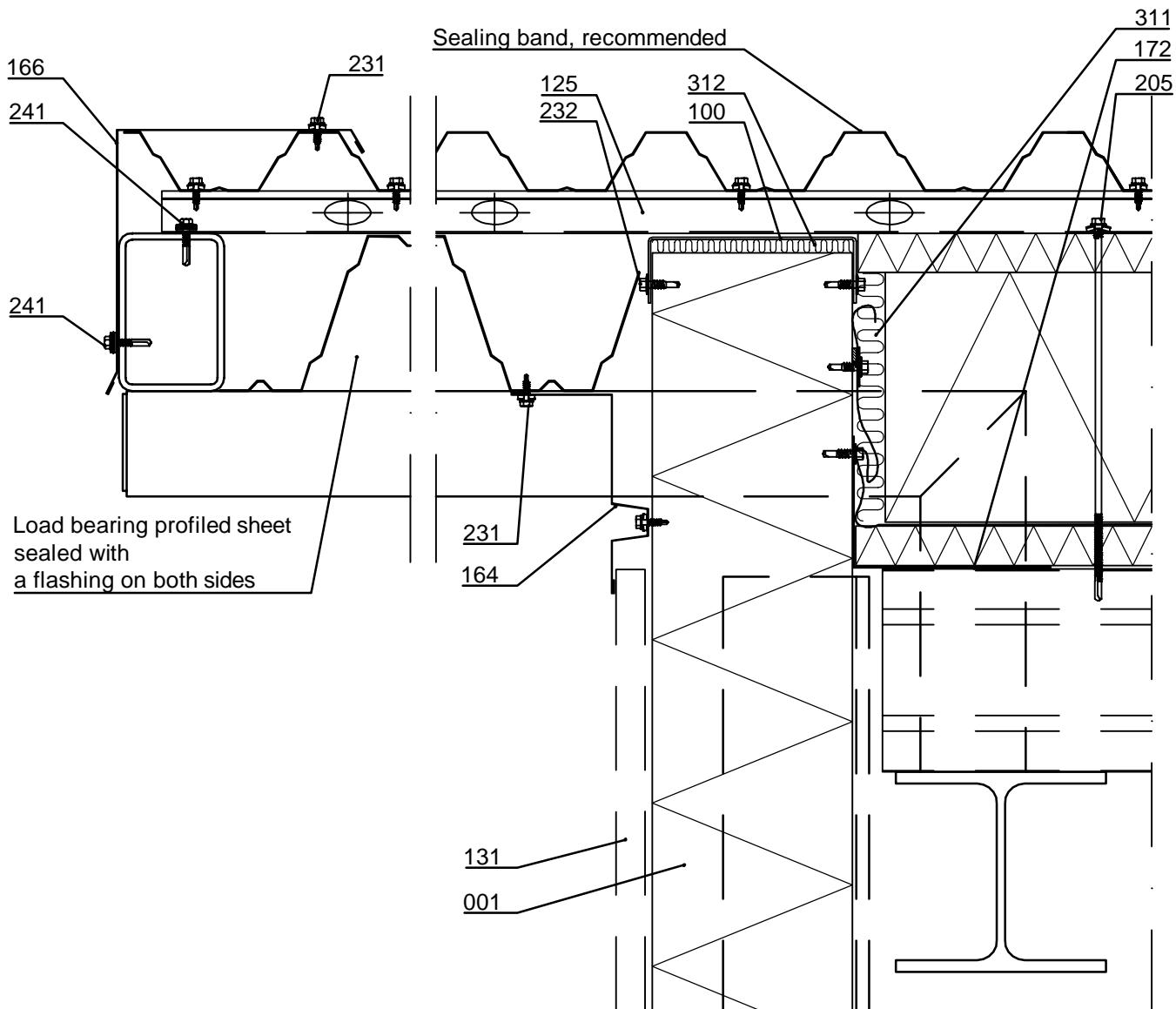
Supports and fastening of profiled sheet according to structural designer.

Panel 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

Sandwich panel SPA, horizontal installation
Cantilever eaves, end eaves
Profiled sheet roof deck, vertical section

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA06-6E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

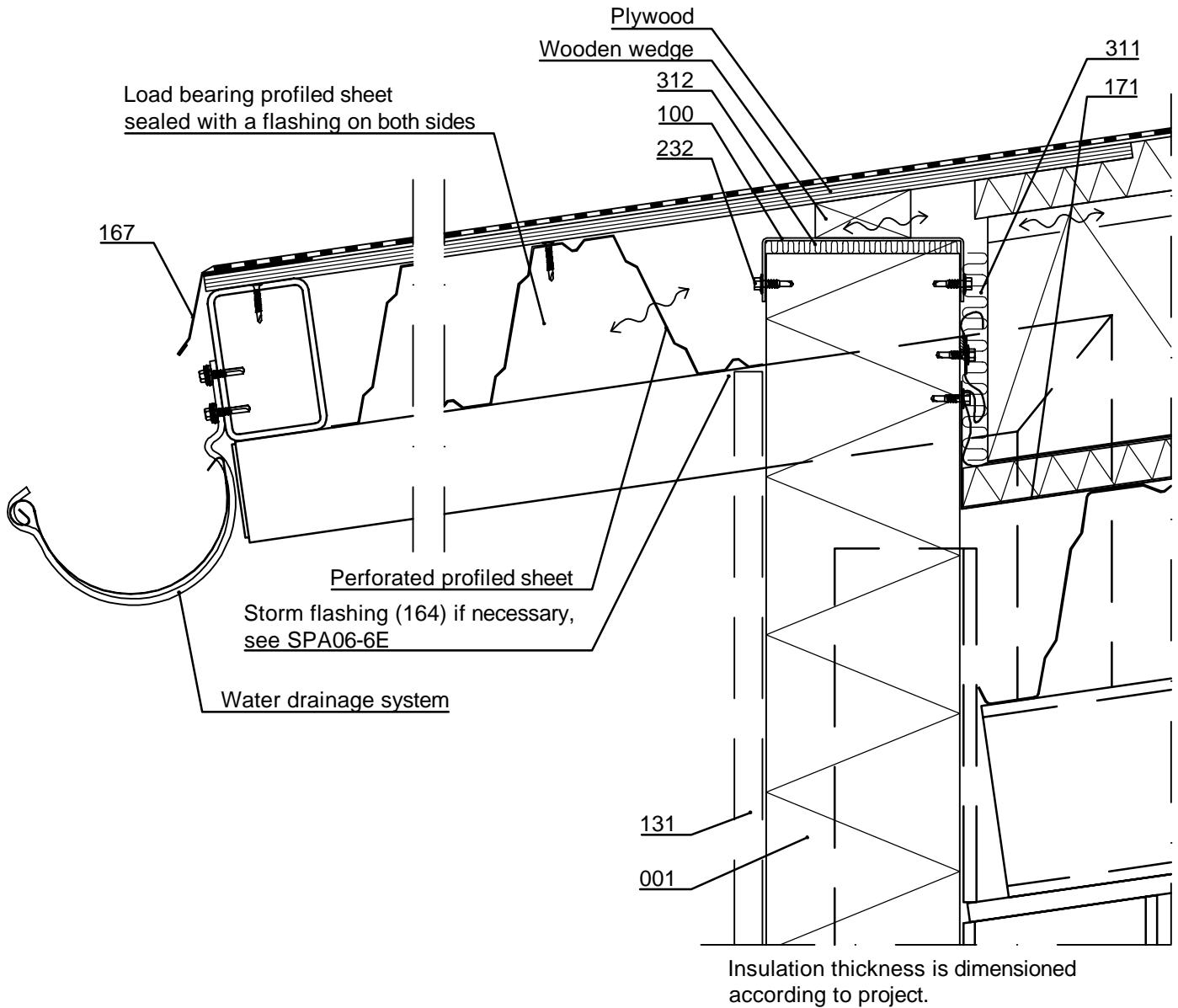


- 001. Sandwich panel SPA
- 100. /EA1EPF ____ / Purlin
- 125. /EA1HP1/ Ventilated hat purlin
- 131. /EA1JV1/ Vertical joint flashing
- 164. Storm flashing, $t = 0.6$ mm, according to project
- 166. Eave flashing, $t = 0.6$ mm, according to project
- 172. Insulation support flashing, $t = 0.6$ mm
- 205. 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. Mineral wool
- 312. /EAWS____ / Mineral wool

- Ruukki's delivery

Sandwich panel SPA, horizontal installation
Cantilever eaves, side eaves
Bitumen roofing felt, vertical section

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA06-7E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



- 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. Mineral wool
- 312. /EAWS ____ / Mineral wool

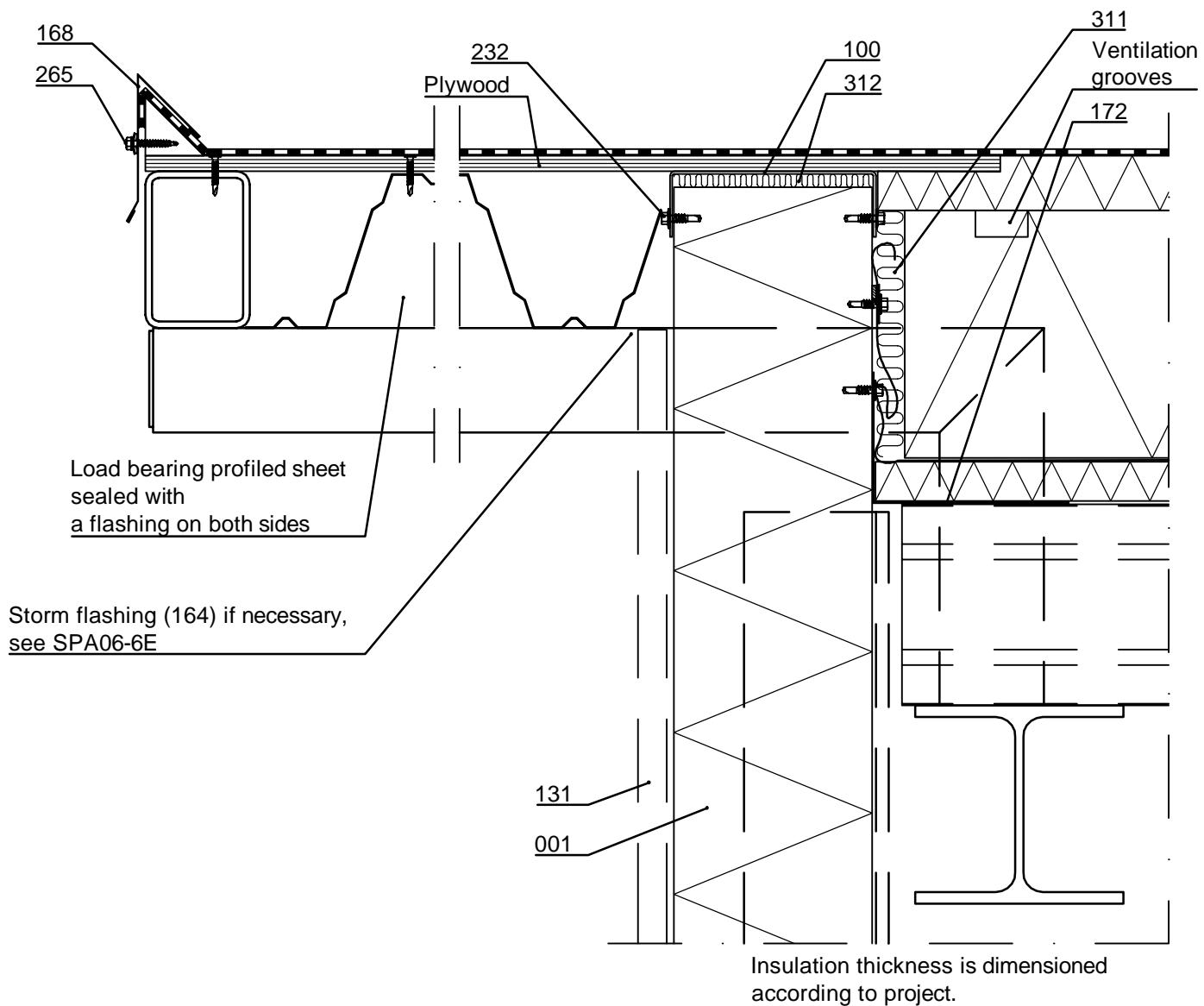
- Ruukki's delivery

Supports and fastening of profiled sheet according to structural designer.

Panel 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 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA06-8E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



- 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. Mineral wool
- 312. /EAWS____/ Mineral wool

- Ruukki's delivery

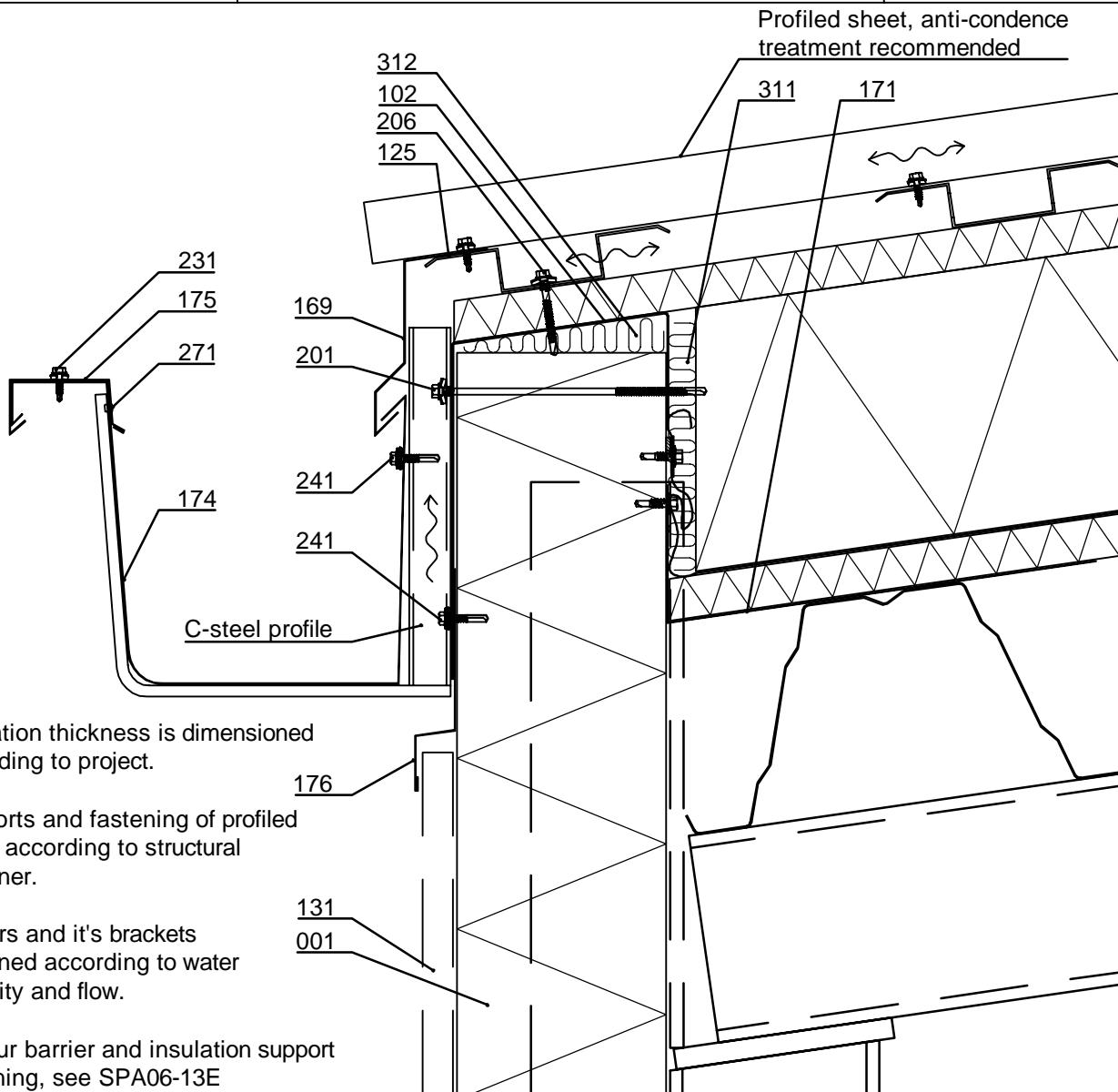
Supports and fastening of profiled sheet according to structural designer.

Panel 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

Sandwich panel SPA, horizontal installation
Eaves, side eaves
Profiled sheet roof deck, vertical section

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA06-9E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



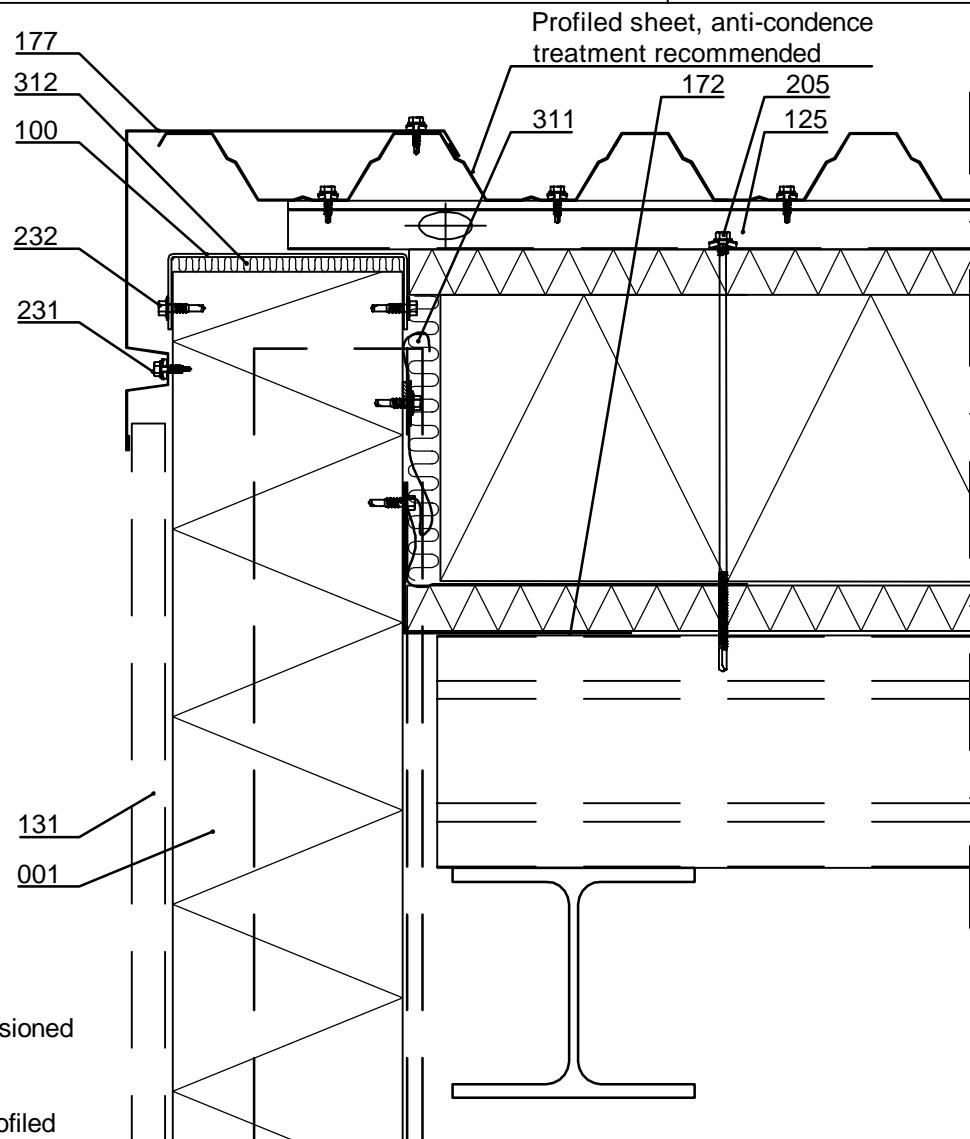
- 001. Sandwich panel SPA
- 102. Eave purlin, according to project
- 125. /EA1HP1/ Ventilated hat purlin
- 131. /EA1JV1/ Vertical joint flashing
- 169. Eave flashing, $t = 0.6$ mm, according to project
- 171. Insulation support flashing, $t = 0.6$ mm, according to project
- 174. Gutter, $t = 0.6$ mm, according to project
- 175. Cover flashing, $t = 0.6$ mm, according to project

- Ruukki's delivery

- 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. Mineral wool
- 312. /EAWS__ / Mineral wool

Sandwich panel SPA, horizontal installation
Eaves, end eaves
Profiled sheet roof deck, vertical section

Date 01.10.2025	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

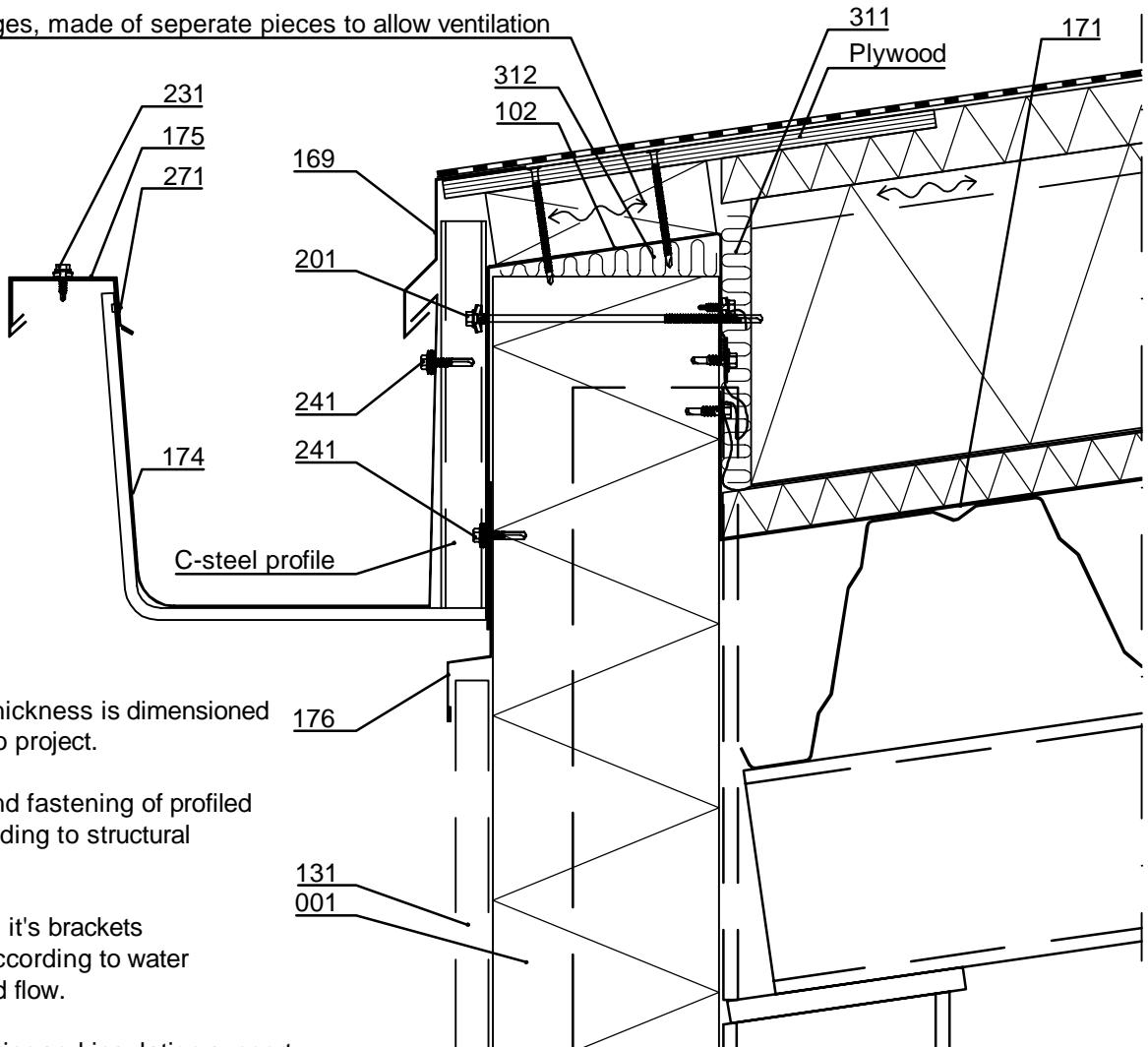
- Ruukki's delivery

- 205. Self-drilling element screw / fastener screw for roof
- 231. Flashing fastener, washer with sealing
- 232. Flashing fastener, without washer
- 311. Mineral wool
- 312. /EAWS___/ Mineral wool

Sandwich panel SPA, horizontal installation
Eaves, side eaves
Bitumen roofing felt, vertical section

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA06-11E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

Wooden wedges, made of separate pieces to allow ventilation



Insulation thickness is dimensioned according to project.

Supports and fastening of profiled sheet according to structural designer.

Gutters and its brackets designed according to water quantity and flow.

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

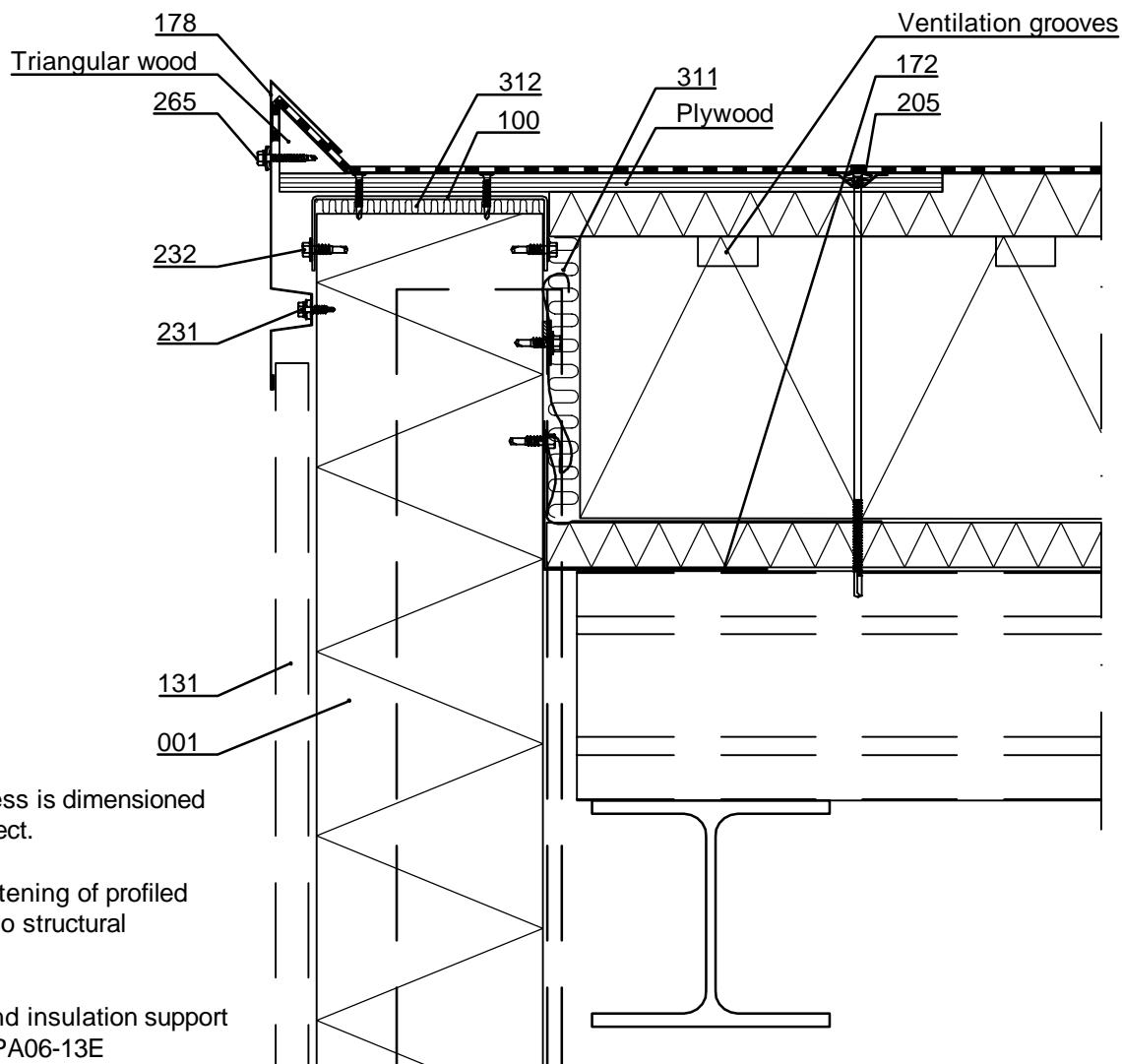
- 001. Sandwich panel SPA
- 102. Eave purlin, t=2mm, according to project
- 131. /EA1JV1/ Vertical joint flashing
- 169. Eave flashing, t = 0.6 mm, according to project
- 171. Insulation support flashing, t = 0.6 mm, according to project
- 174. Gutter, t = 0.6 mm, according to project
- 175. Cover flashing, t = 0.6 mm, according to project

- Ruukki's delivery

- 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. Mineral wool
- 312. /EAWS____/ Mineral wool

Sandwich panel SPA, horizontal installation
Eaves, end eaves
Bitumen roofing felt, vertical section

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA06-12E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



- 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. Mineral wool
- 312. /EAWS___/ Mineral wool

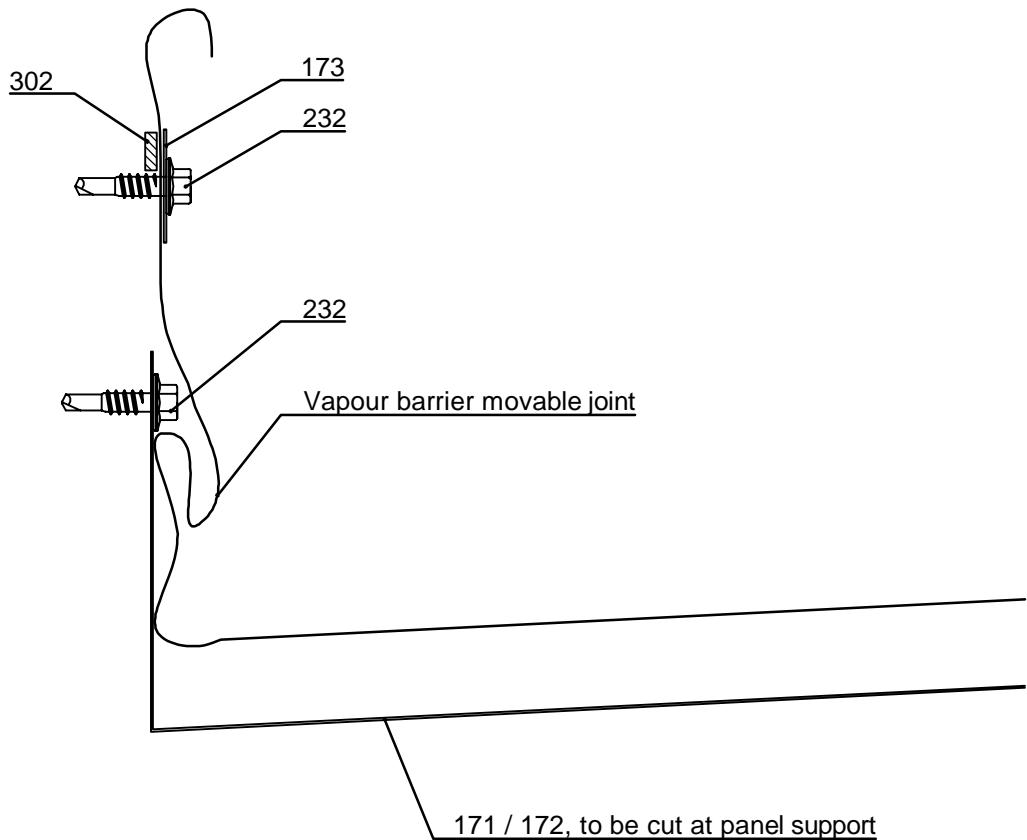
Ruukki's delivery

RUUKKI

Contents of drawing

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

Date 01.10.2025	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

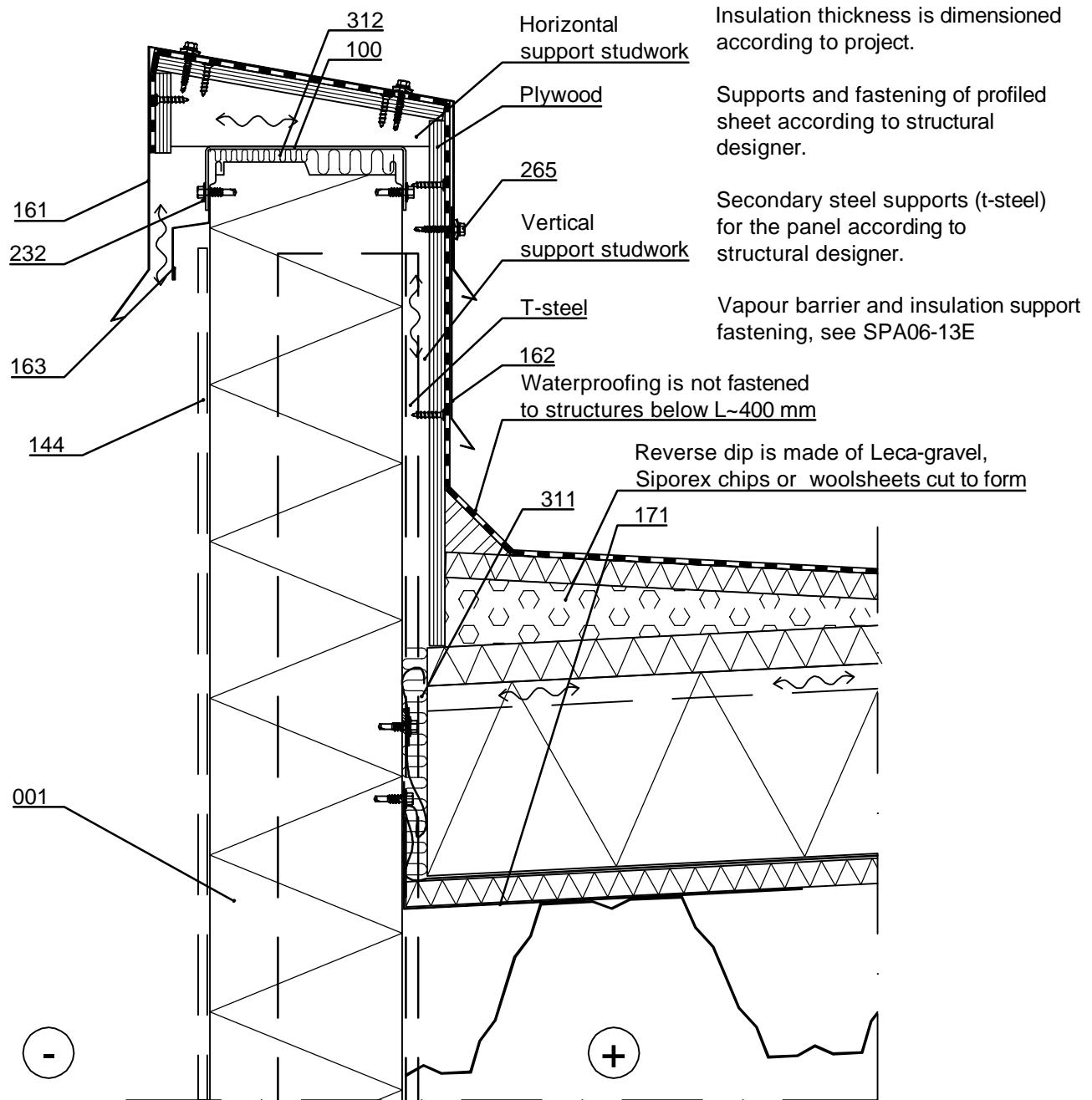
Ruukki's delivery



Contents of drawing

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

Date 01.10.2025	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. /EA1JVI/ 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

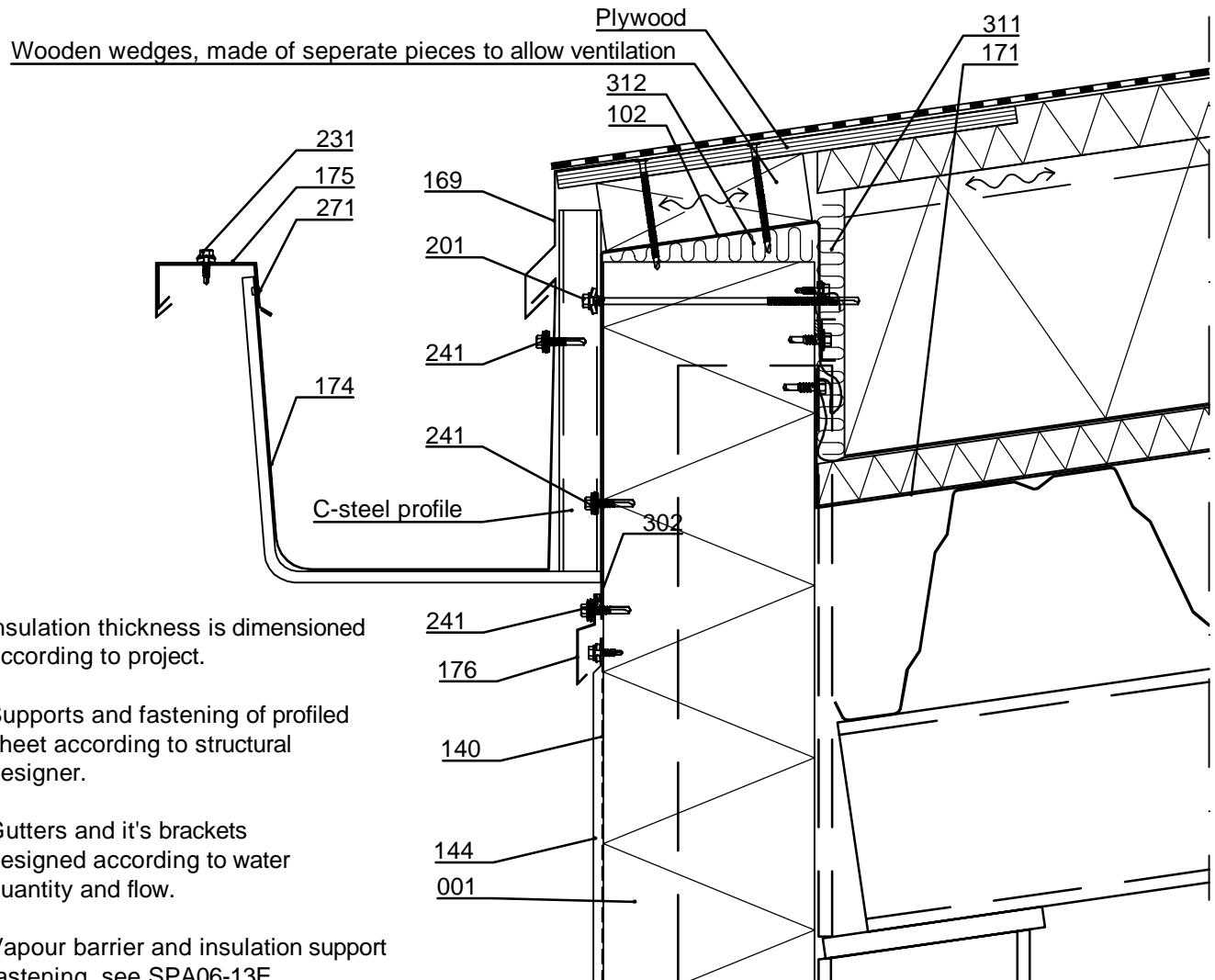
Ruukki's delivery

- 171. Insulation support flashing
t = 0.6 mm, according to project
- 232. Flashing fastener, without washer
- 265. S3H55042WA4B Fastener, wood c/c600
- 311. Mineral wool
- 312. /EAWS / Mineral wool

► Ruukki's delivery

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

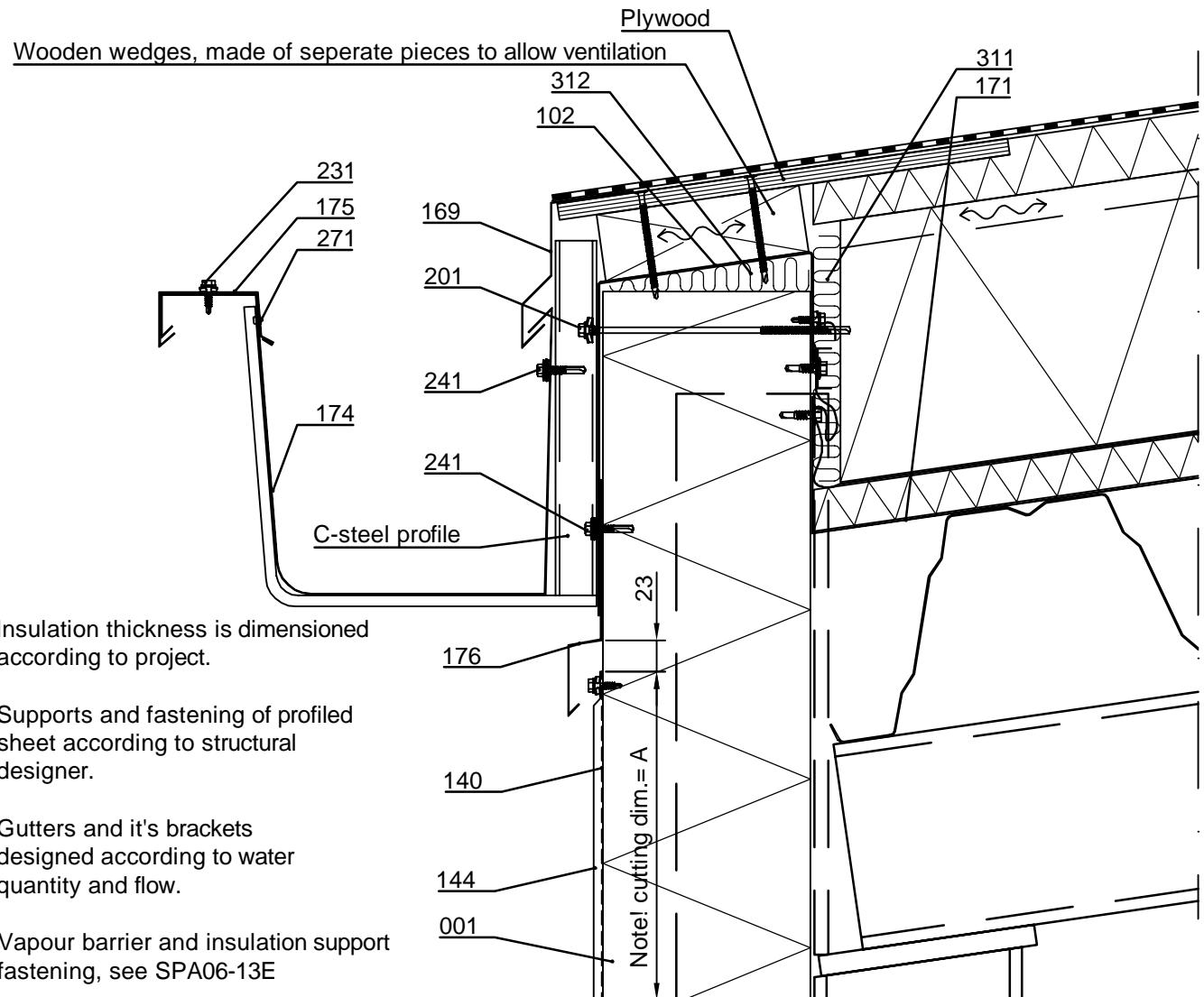
Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA06-31E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



- 001. Sandwich panel SPA
- 102. Eave purlin, $t = 2$ mm, according to project
- 140. /EA1JVB4/ Vertical bottom flashing Invisible
- 144. /EA1JVI/ Vertical joint flashing Invisible
- 169. Eave flashing, $t = 0.6$ mm, according to project
- 171. Insulation support fl., $t = 0.6$ mm, acc. to project
- 174. Gutter, $t = 0.6$ mm, according to project
- 175. Cover flashing, $t = 0.6$ mm, according to project
- Ruukki's delivery
- 176. Storm flashing, $t = 0.6$ mm, according to project
- 201. Self-drilling screw, washer with sealing
- 231. Flashing fastener, washer with sealing
- 241. Fastener screw, washer with sealing
- 271. Rivet
- 302. /EA3SS410/ Sealing strip
- 311. Mineral wool
- 312. /EAWS____/ Mineral wool

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

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA06-32E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

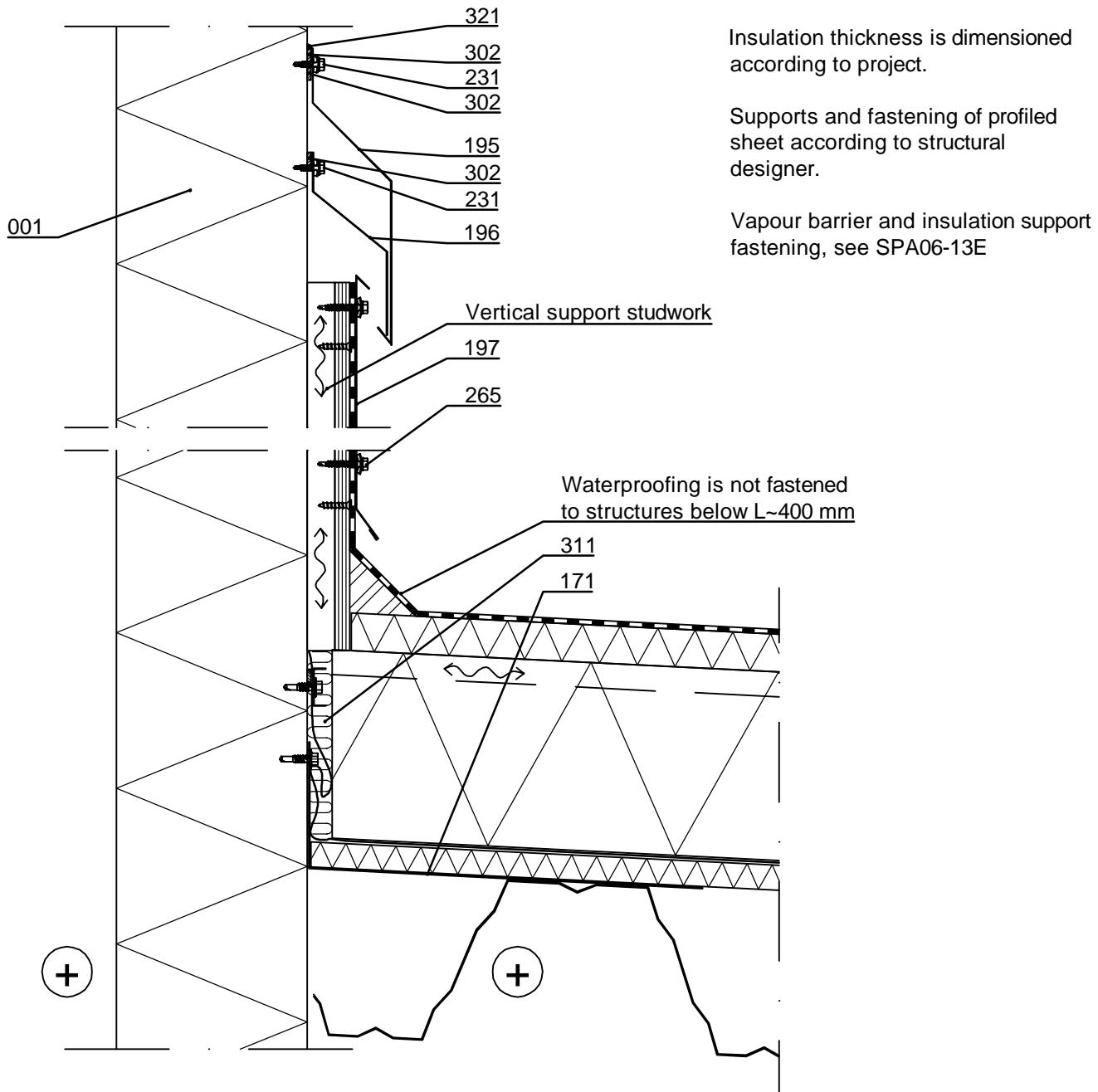


NOTE! If lists 140 and 144 are needed to shorten, then the bottom strip 140 is cut from the upper edge 180mm shorter than the shortened vertical seam strip 144.
List 144 is cut from the bottom edge (A) and the cut edge is sanded flat. Vertical seam list 144 installed from the bottom up.

- 001. Sandwich panel SPA
- 102. Eave purlin, t = 2 mm, according to project
- 140. /EA1JVB4/ Vertical bottom flashing Invisible
- 144. /EA1JVI/ Vertical joint flashing Invisible
- 169. Eave flashing, t = 0.6 mm, according to project
- 171. Insulation support fl., t = 0.6 mm, acc. to project
- 174. Gutter, t = 0.6 mm, according to project
- 175. Cover flashing, t = 0.6 mm, according to project
- Ruukki's delivery
- 176. Storm flashing, t = 0.6 mm, according to project
- 201. Self-drilling screw, washer with sealing
- 231. Flashing fastener, washer with sealing
- 241. Fastener screw, washer with sealing
- 271. Rivet
- 302. /EA3SS410/ Sealing strip
- 311. Mineral wool
- 312. /EAWS____/ Mineral wool

**Sandwich panel SPA, horizontal installation
installation
Uplifted roofing, vertical section**

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA07-1E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.



- 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
- Ruukki's delivery

- 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. Mineral wool
- 321. Ruukki sealant mastic

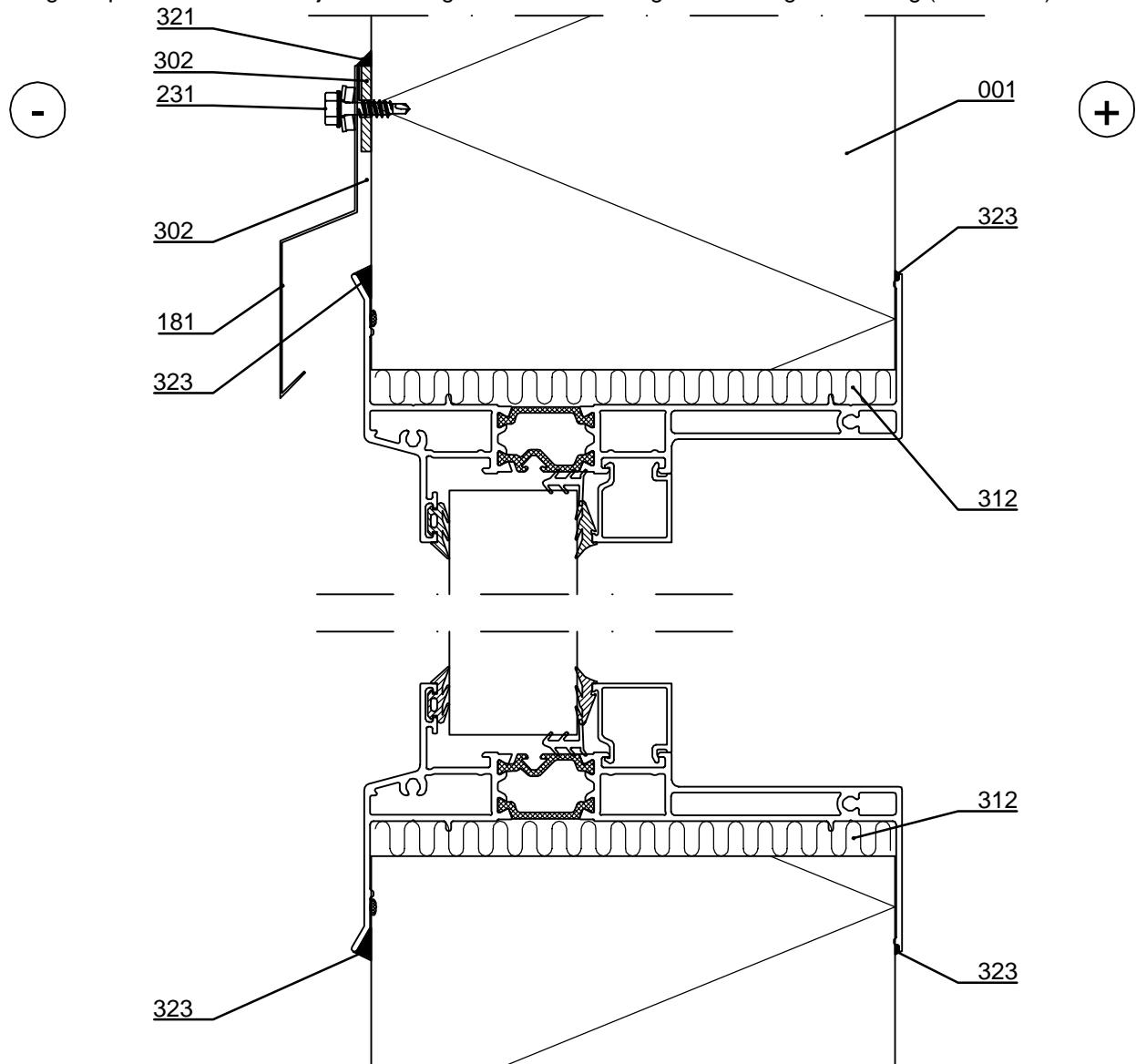
Sandwich panel SPA, horizontal installation
System window, vertical section
Small window

Date 01.10.2025	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 panels.

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

Note! Remember to seal the grooves of the panels 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
- 181. Drip flashing, $t = 0.6$ mm, according to project
- 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
- 321. Ruukki sealant mastic
- 323. Ruukki sealant mastic

- Ruukki's delivery

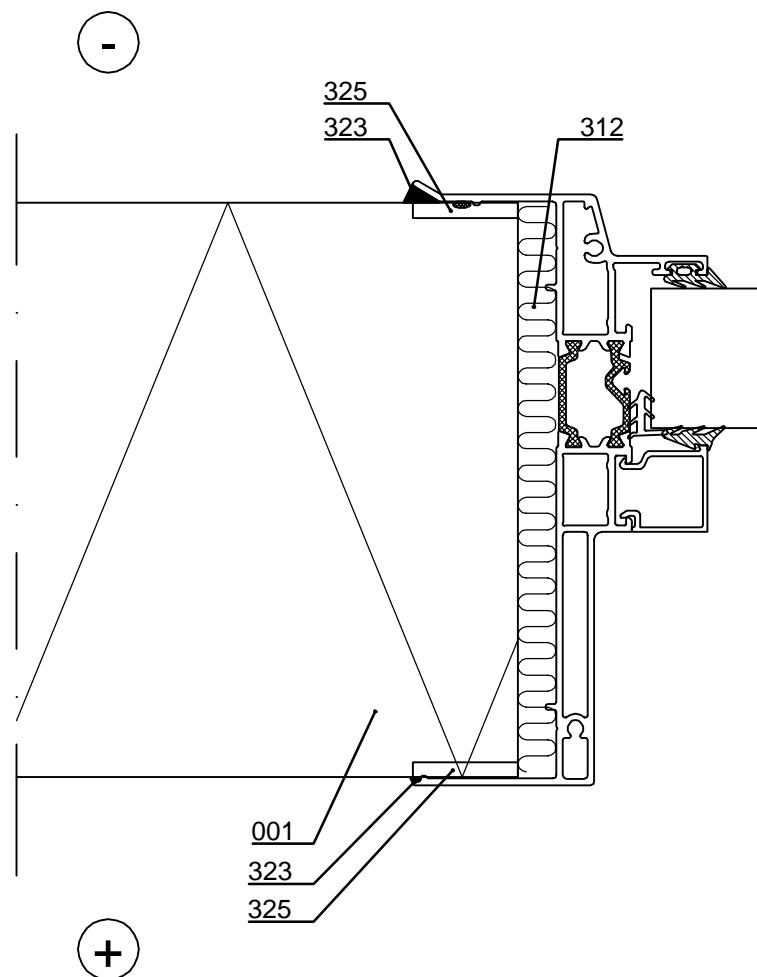
Sandwich panel SPA, horizontal installation
System window, horizontal section
Small window

Date 01.10.2025	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 panels.

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

Note! Remember to seal the grooves of the panels 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
- 323. Ruukki sealant mastic
- 325. Ruukki sealant mastic
during installation to outer and inner female grooves
- Ruukki's delivery

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

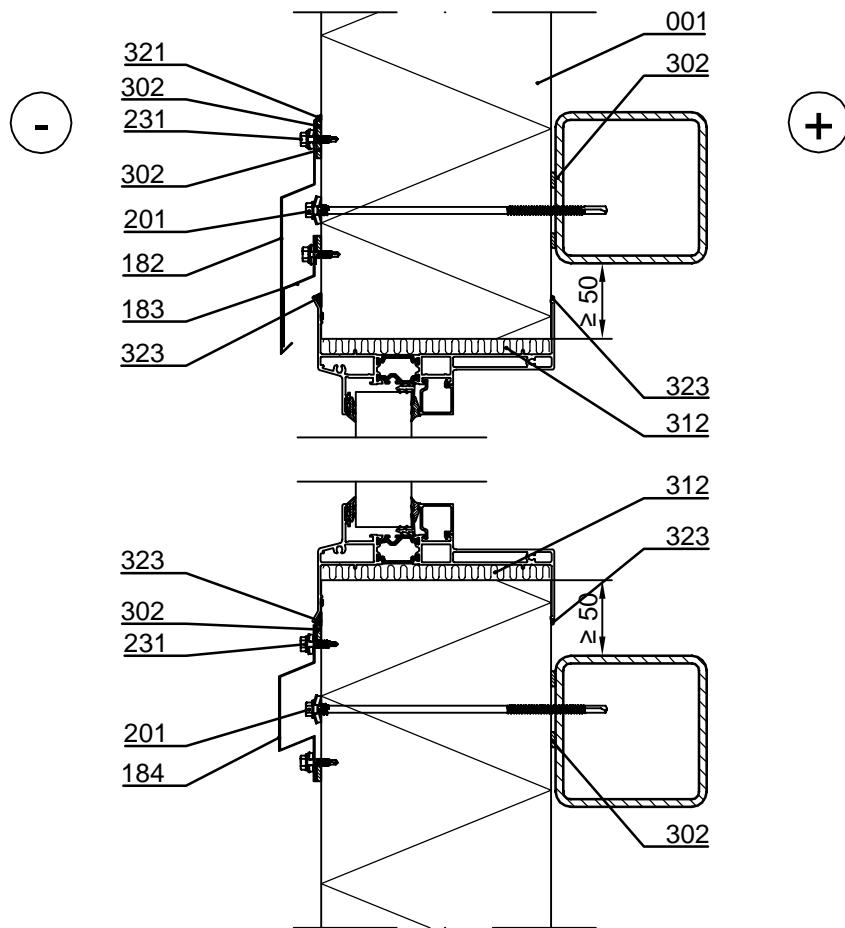
Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA08-3E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

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

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

Note! Remember to seal the grooves of the panels 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
- 182. Drip flashing, $t = 0.6$ mm, according to project
- 183. Storm flashing, $t = 0.6$ mm, according to project
- 184. Cover flashing, $t = 0.6$ mm, according to project
- 201. Self-drilling 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
- 321. Ruukki sealant mastic
- 323. Ruukki sealant mastic

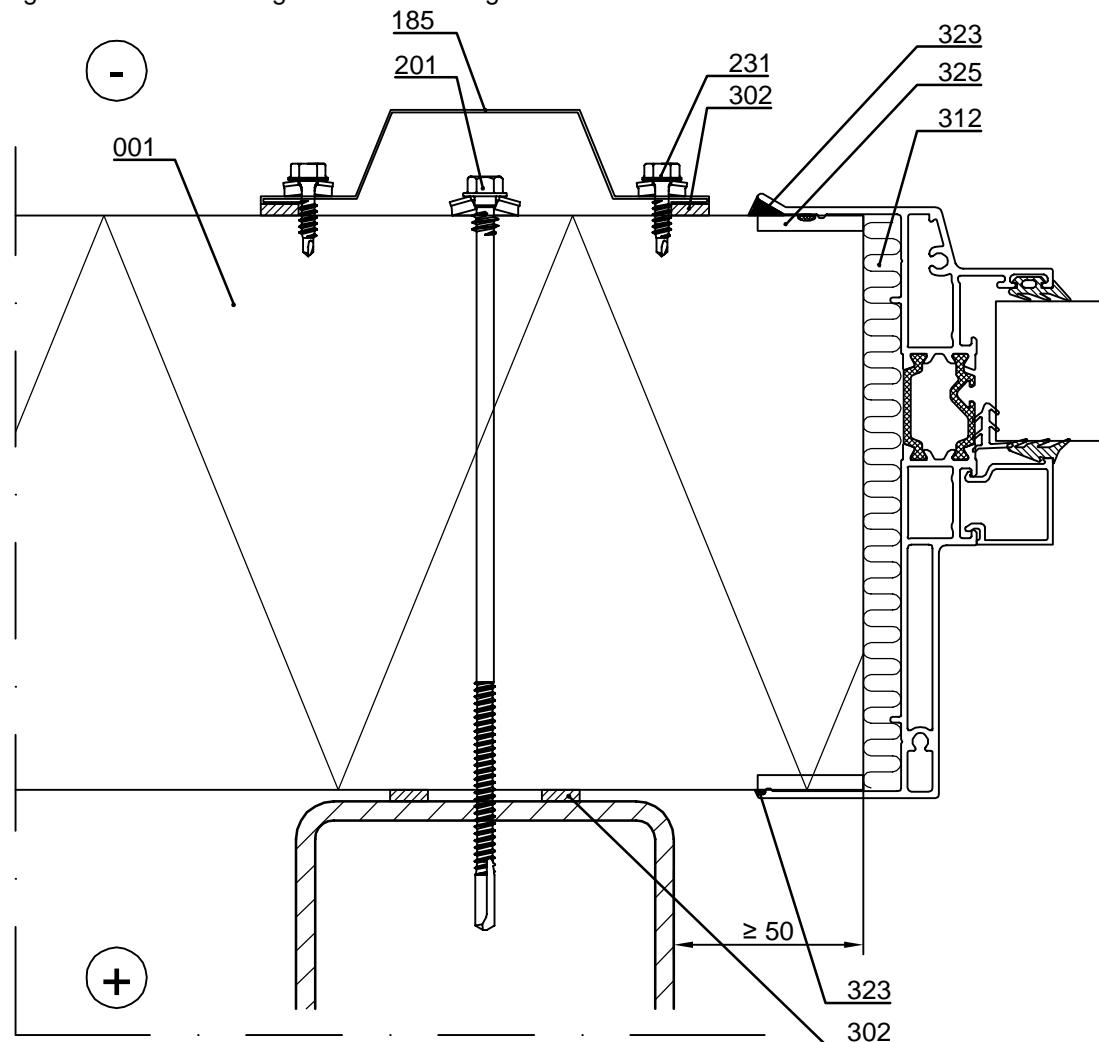
Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA08-4E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

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

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

Note! Remember to seal the grooves of the panels 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
- 323. Ruukki sealant mastic
- 325. Ruukki sealant mastic
to outer and inner female grooves

Ruukki's delivery

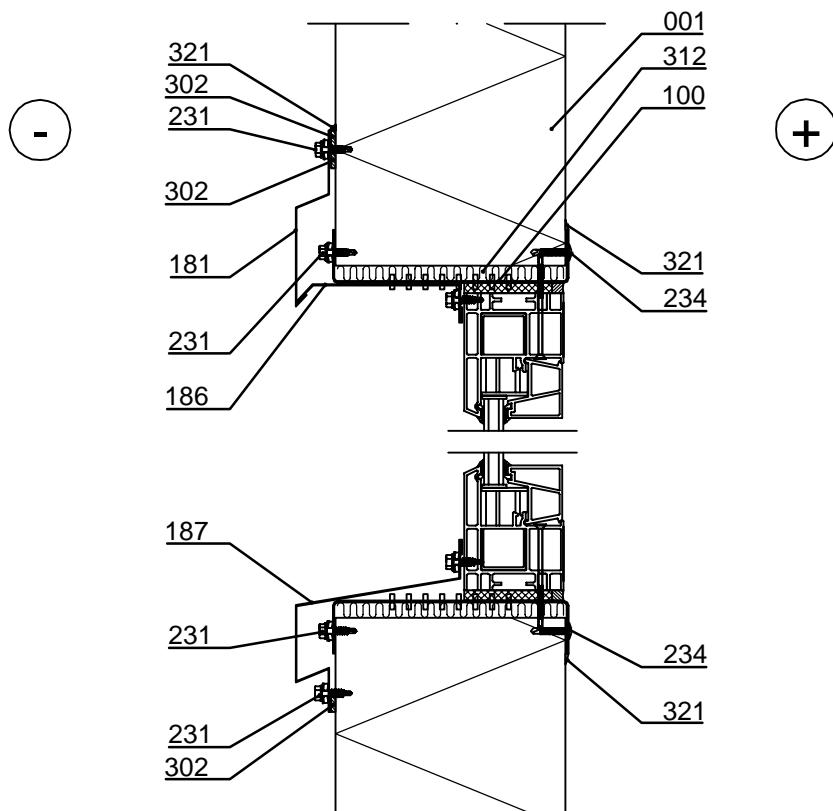
Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA08-5E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

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

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 panels 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"/> 100. /EA1W____/ Window frame stud <input type="checkbox"/> 181. Drip flashing, $t = 0.6$ mm, according to project <input type="checkbox"/> 186. Support- / cover flashing, $t = 0.6$ mm, acc. to project <input type="checkbox"/> 187. External window sill, $t = 0.6$ mm, acc. to project <input type="checkbox"/> 231. Flashing fastener, washer with sealing <input checked="" type="checkbox"/> Ruukki's delivery	<input type="checkbox"/> 234. Flat head flashing fastener <input type="checkbox"/> 302. /EA3SS410/ Sealing strip /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas) <input type="checkbox"/> 312. /EAWS____/ Mineral wool <input type="checkbox"/> 321. Ruukki sealant mastic
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Contents of drawing

Sandwich panel SPA, horizontal installation Window, horizontal section

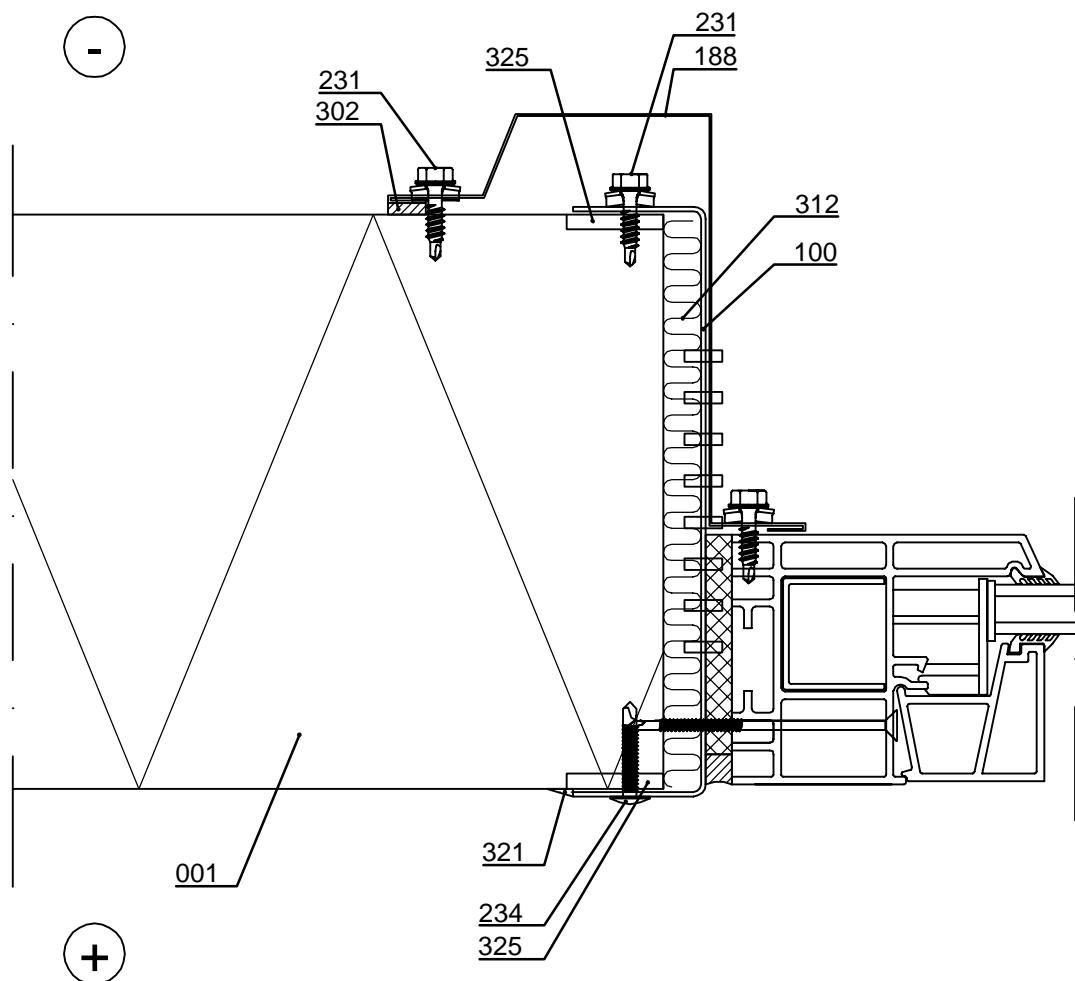
Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA08-6E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

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

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 panels 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
- 321. Ruukki sealant mastic
- 325. Ruukki sealant mastic
to outer and inner female grooves

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

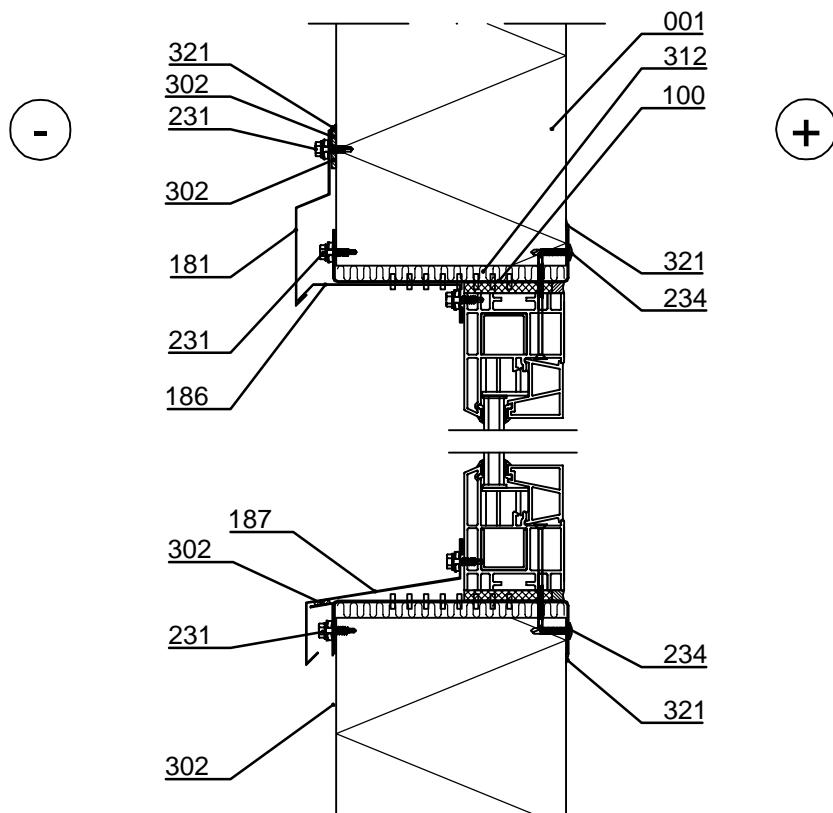
Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA08-30E-EN
Drawn by Ruukki	Rev.		
Scale 1:5	Building		File nr.

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

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 panels 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"/> 100. /EA1W / Window frame stud <input type="checkbox"/> 181. Drip flashing, t = 0.6 mm, according to project <input type="checkbox"/> 186. Support- / cover flashing, t = 0.6 mm, acc. to project <input type="checkbox"/> 187. External window sill, t = 0.6 mm, acc. to project <input type="checkbox"/> 231. Flashing fastener, washer with sealing <input checked="" type="checkbox"/> Ruukki's delivery	<input type="checkbox"/> 234. Flat head flashing fastener <input type="checkbox"/> 302. /EA3SS410/ Sealing strip /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)" <input type="checkbox"/> 312. /EAWS5657850/ Mineral wool <input type="checkbox"/> 321. Ruukki sealant mastic
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Sandwich panel SPA, horizontal installation
Window, horizontal section
Invisible flashing

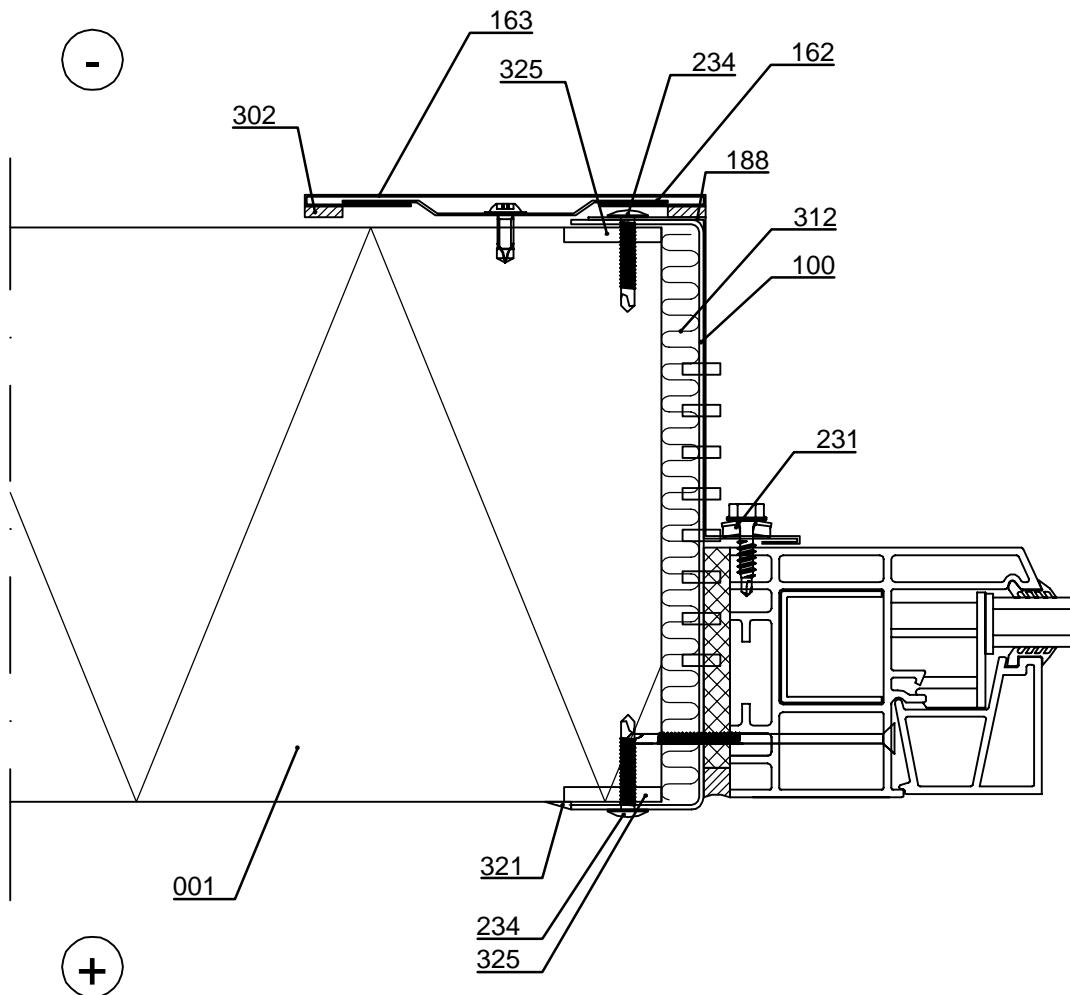
Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA08-31E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

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

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 panels 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
- 162. /EA1WXBI/ Window bottom flashing Invisible
- 163. /EA1WEI/ Window flashing Invisible
- 188. Cover flashing, t = 0.6 mm, according to project
- 231. Flashing fastener, washer with sealing
- 234. Flat head flashing fastener

- Ruukki's delivery

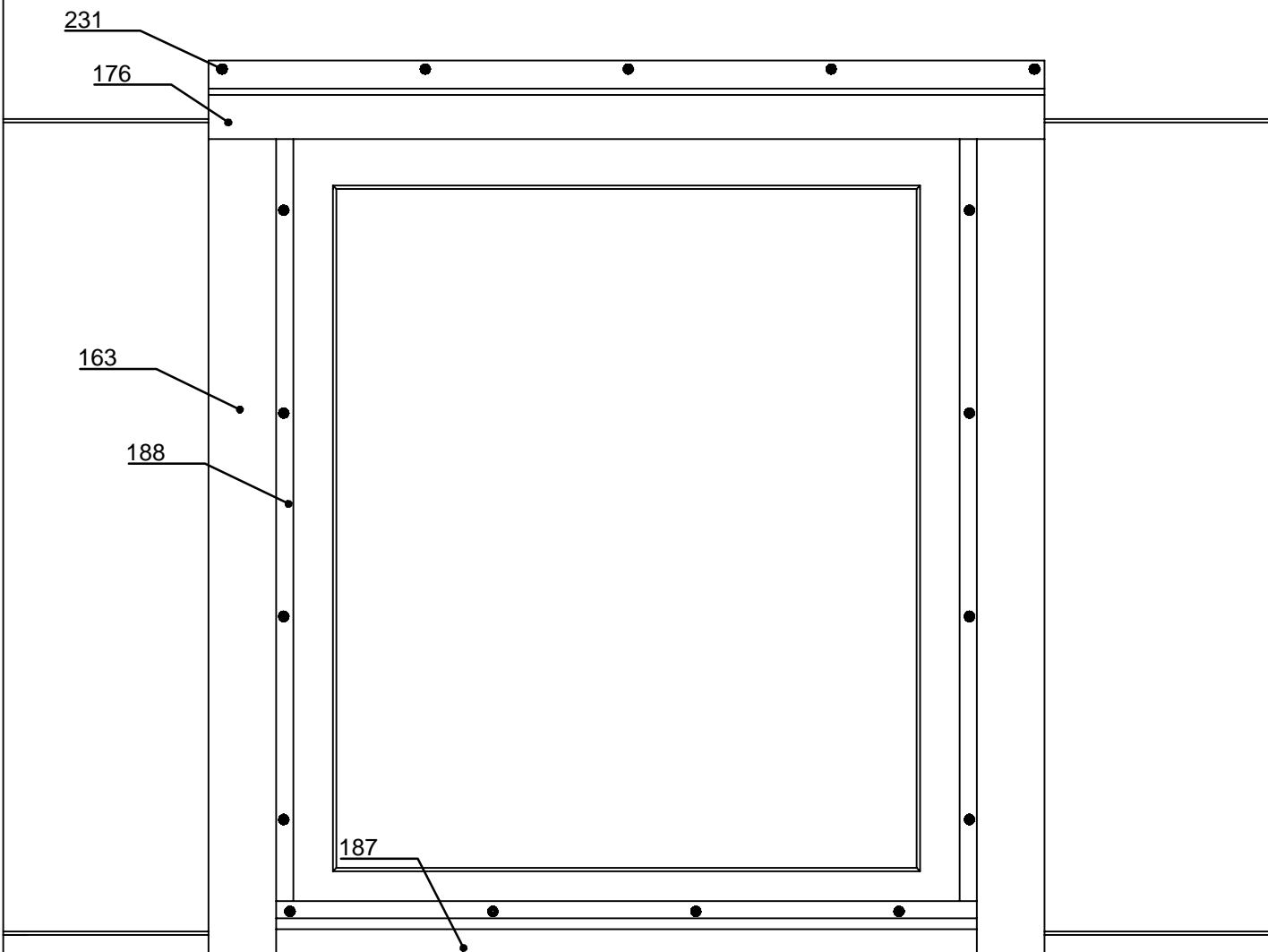
- 302. /EA3SS410/ Sealing strip /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)
- 312. /EAWS___/ Mineral wool
- 321. Ruukki sealant mastic
- 325. Ruukki sealant mastic during installation to outer- and inner groove

RUUKKI

Contents of drawing

Sandwich panel SPA, horizontal installation
Window
Invisible flashing

Date 01.10.2025	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

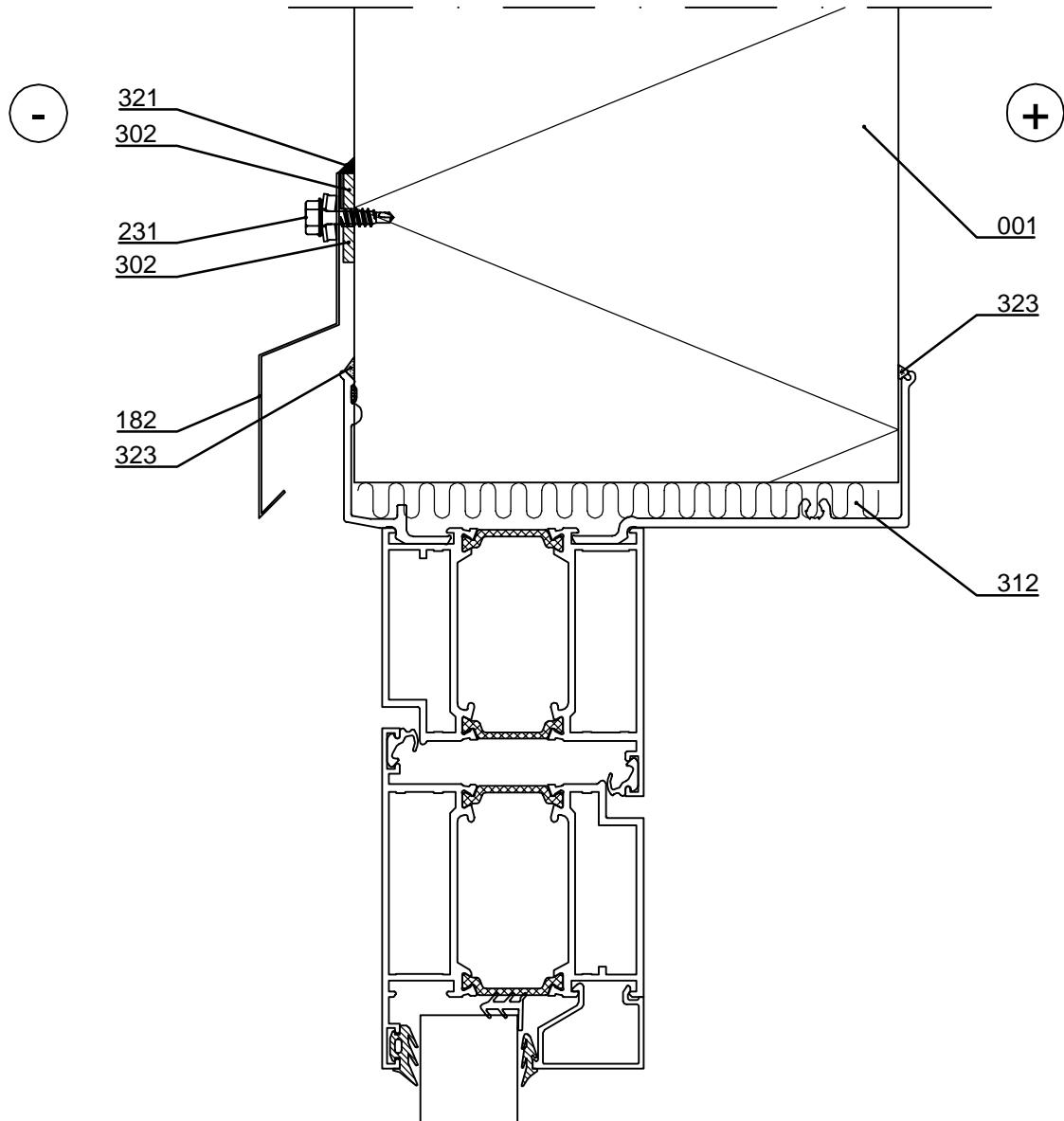
Sandwich panel SPA, horizontal installation
System door, vertical section
Single door

Date 01.10.2025	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 panels.

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

Note! Remember to seal the grooves of the panels 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
- 182. Drip flashing, $t = 0.6$ mm, according to project
- 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
- 321. Ruukki sealant mastic
- 323. Ruukki sealant mastic

Ruukki's delivery

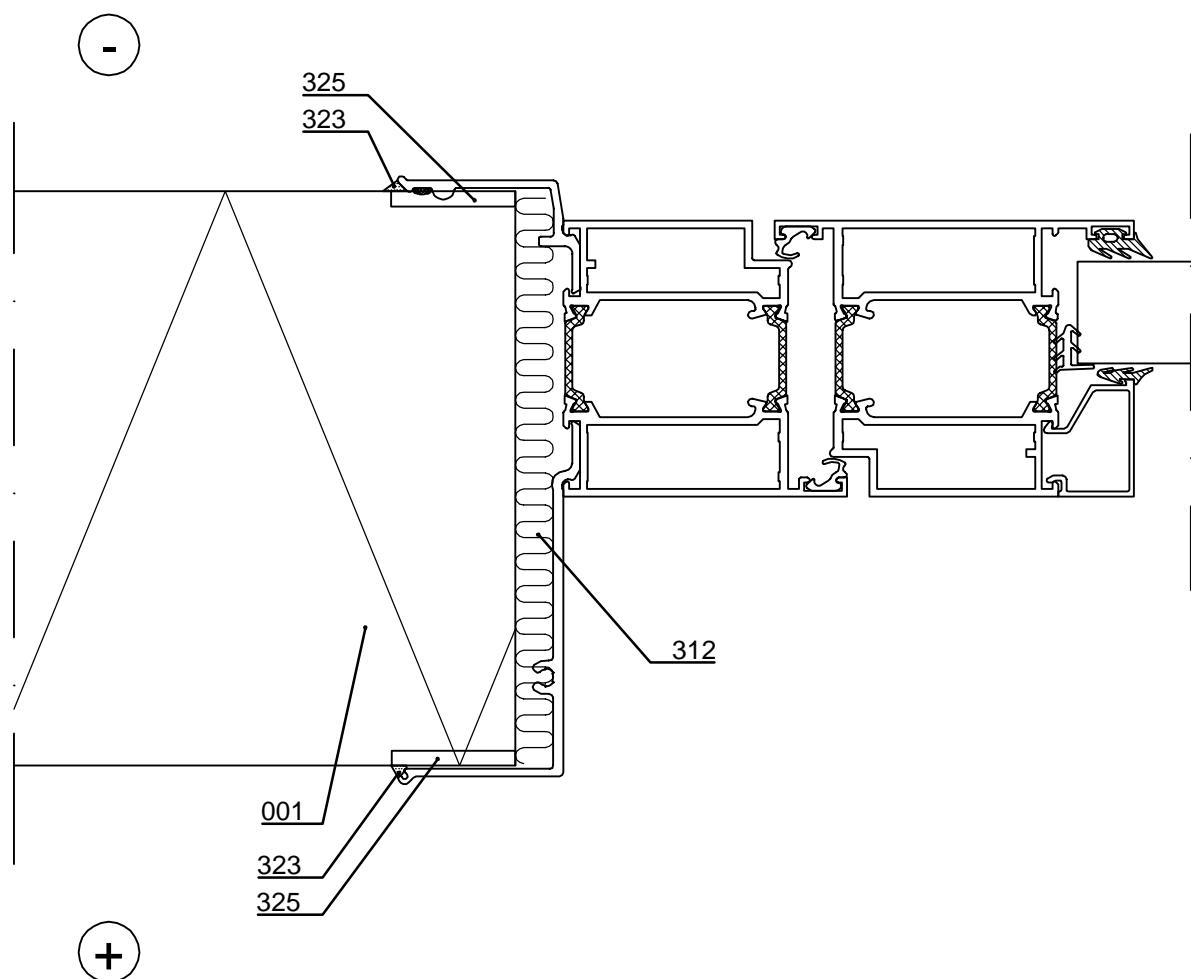
Sandwich panel SPA, horizontal installation
System door, horizontal section
Single door

Date 01.10.2025	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 panels.

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

Note! Remember to seal the grooves of the panels 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
- 323. Ruukki sealant mastic
- 325. Ruukki sealant mastic
during installation to outer and inner female grooves
- Ruukki's delivery

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

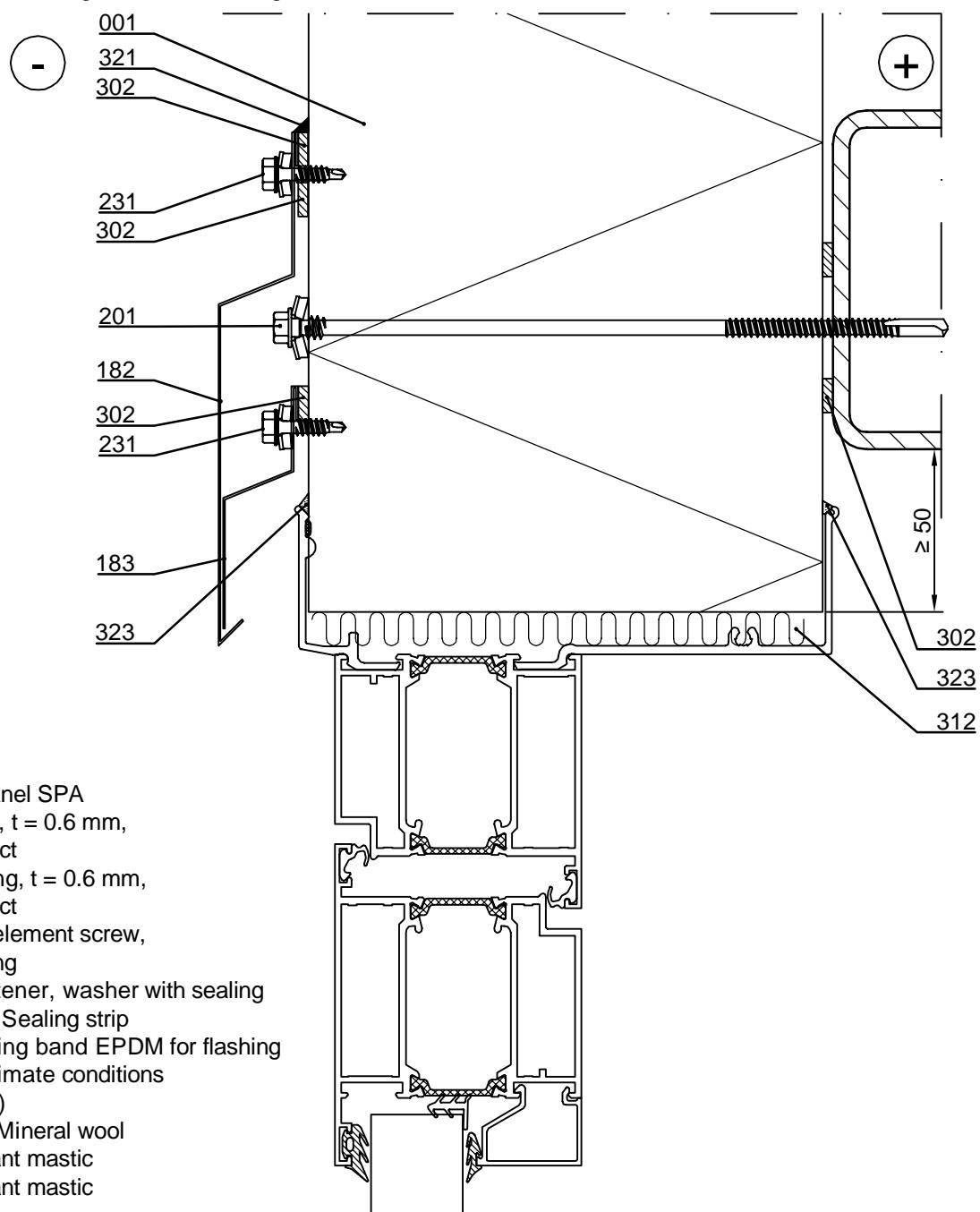
Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA09-3E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

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

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

Note! Remember to seal the grooves of the panels 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
- 321. Ruukki sealant mastic
- 323. Ruukki sealant mastic
- Ruukki's delivery

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

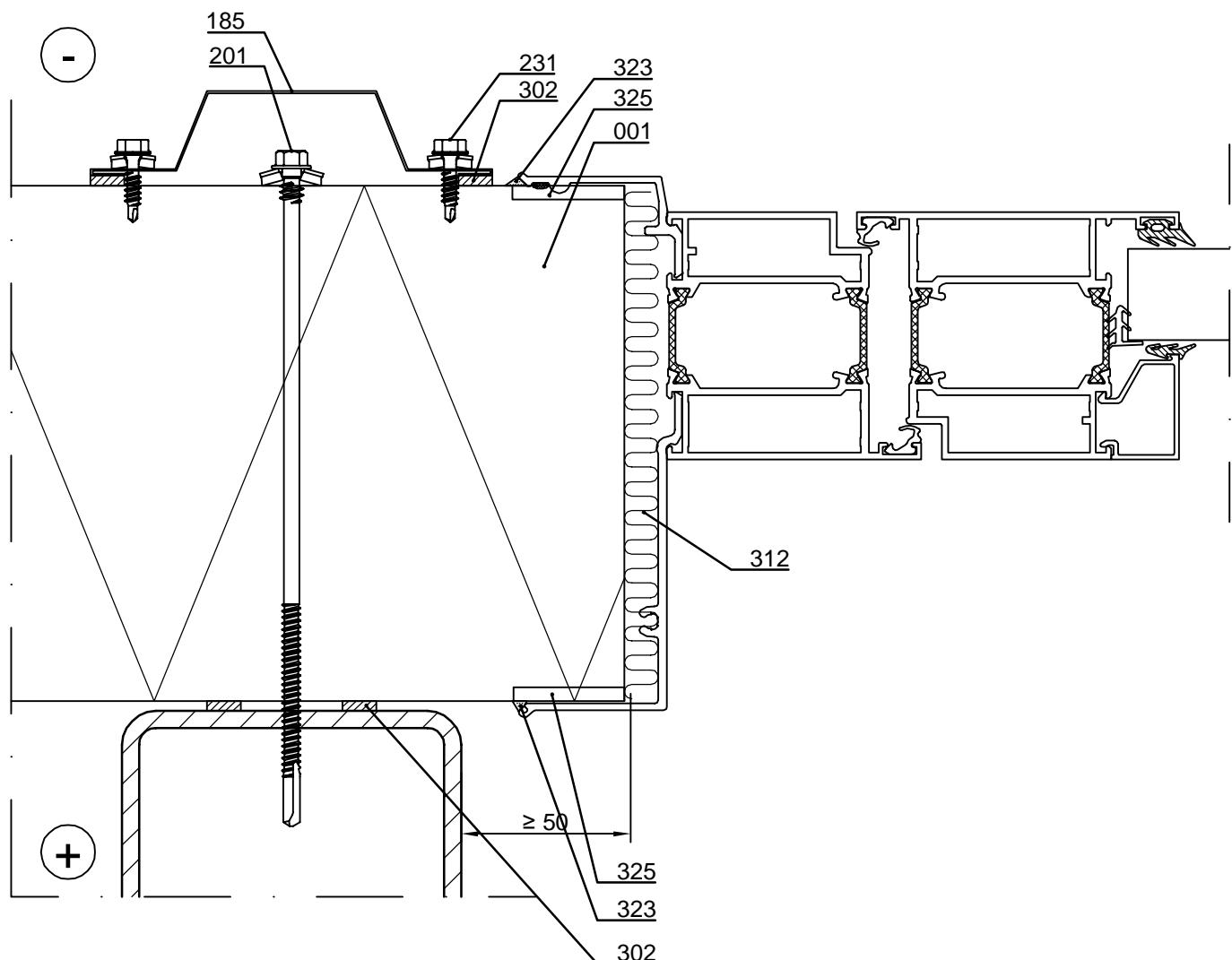
Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA09-4E-EN
Drawn by Ruukki	Rev.		
Scale 1:2	Building		File nr.

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

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

Note! Remember to seal the grooves of the panels 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
- 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
- 323. Ruukki sealant mastic
- 325. Ruukki sealant mastic
to outer and inner female grooves

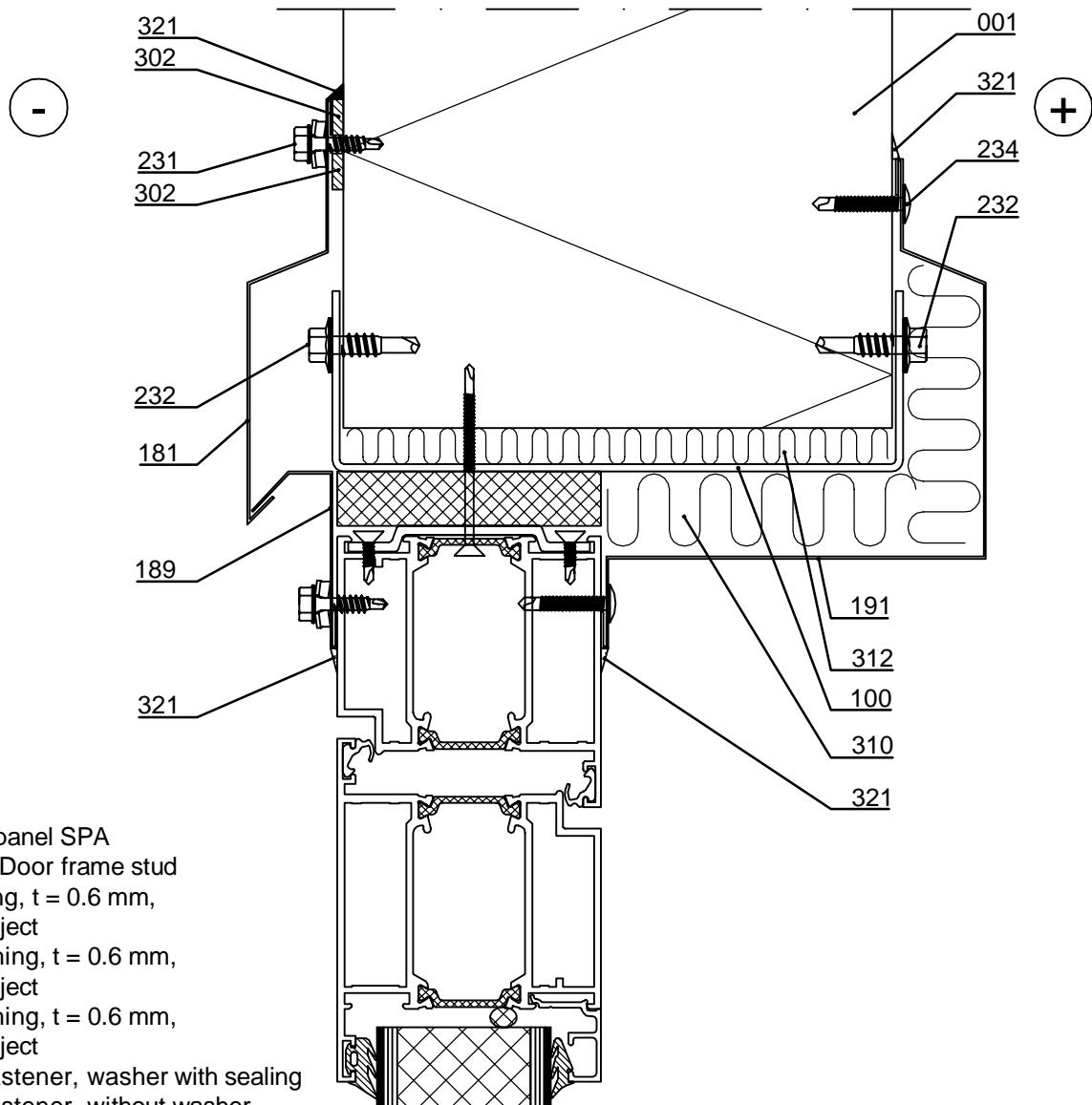
- Ruukki's delivery

Date 01.10.2025	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 panels.

Note! Remember to seal the grooves of the panels 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).



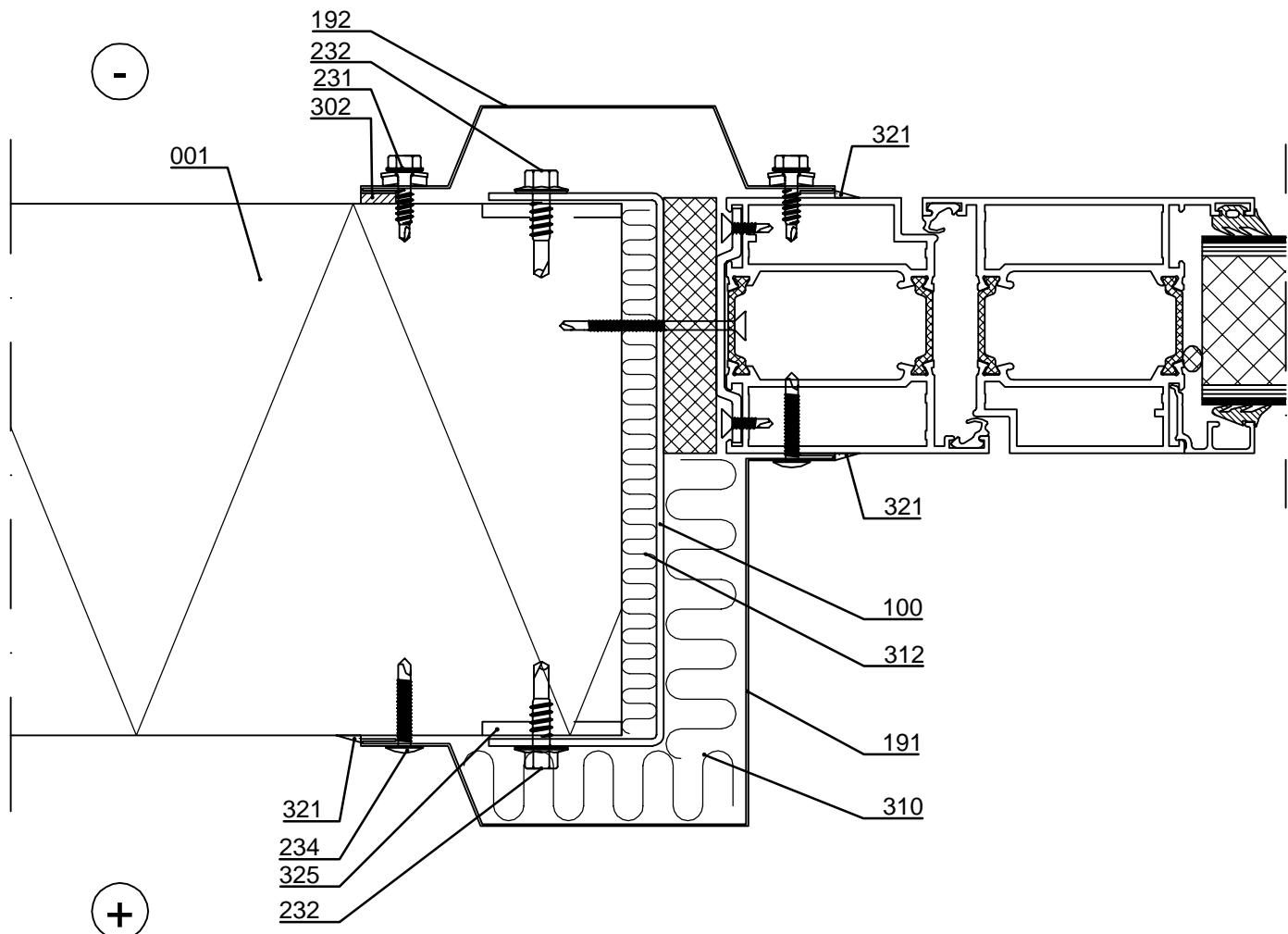
Ruukki's delivery

Date 01.10.2025	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 panels.

Note! Remember to seal the grooves of the panels 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. Mineral wool
- 312. /EAWS___/ Mineral wool
- 321. Ruukki sealant mastic
- 325. Ruukki sealant mastic
to outer and inner female grooves

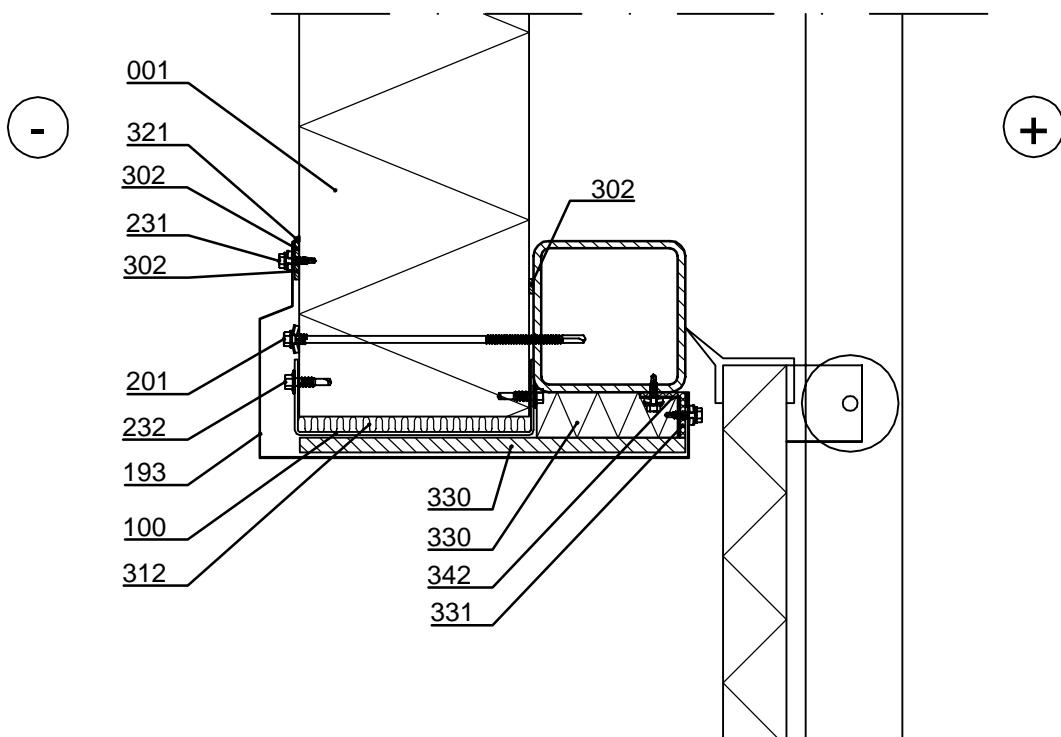
Ruukki's delivery

Date 01.10.2025	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 panels.

Note! Remember to seal the grooves of the panels 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
- 100. EA1D___/ Door frame stud
- 193. Drip- / 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
- 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
- 312. /EAWS___/ Mineral wool
- 321. Ruukki sealant mastic
- 330. PU insulation
- 331. EPDM sealing
- 342. L-profile

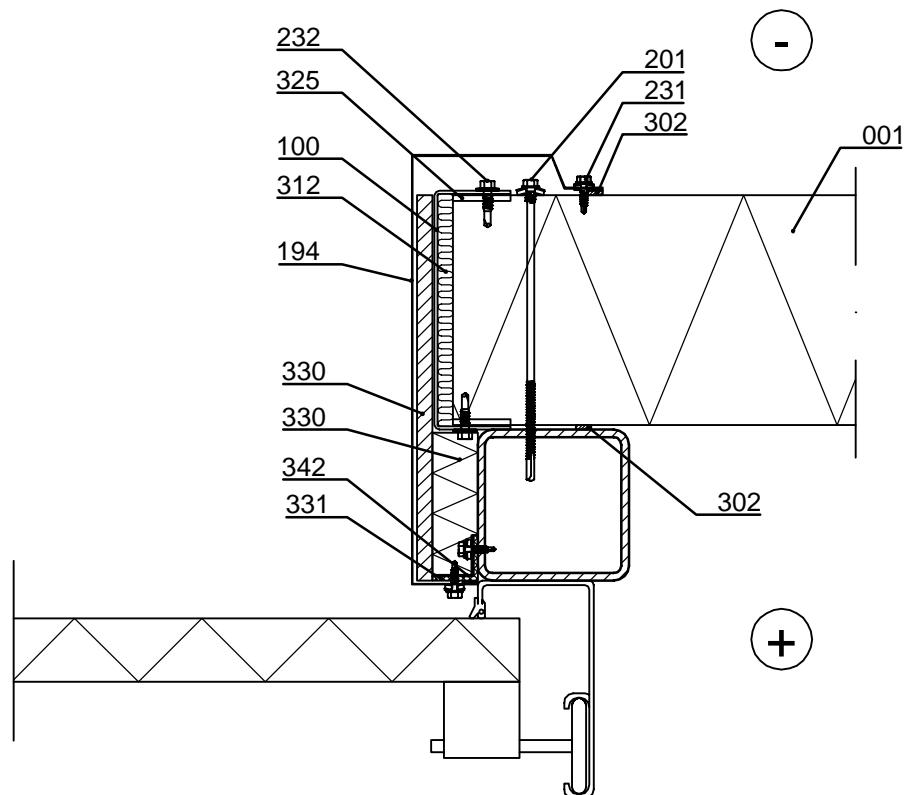
Ruukki's delivery

Date 01.10.2025	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 panels.

Note! Remember to seal the grooves of the panels 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
- 100. EA1D____/ Door frame stud
- 194. 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
- 302. /EA3SS410/ Sealing strip
/EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)

- 312. /EAWS____/ Mineral wool
- 325. Ruukki sealant mastic
to outer and inner female grooves
- 330. PU insulation
- 331. EPDM sealing
- 342. L-profile

Ruukki's delivery

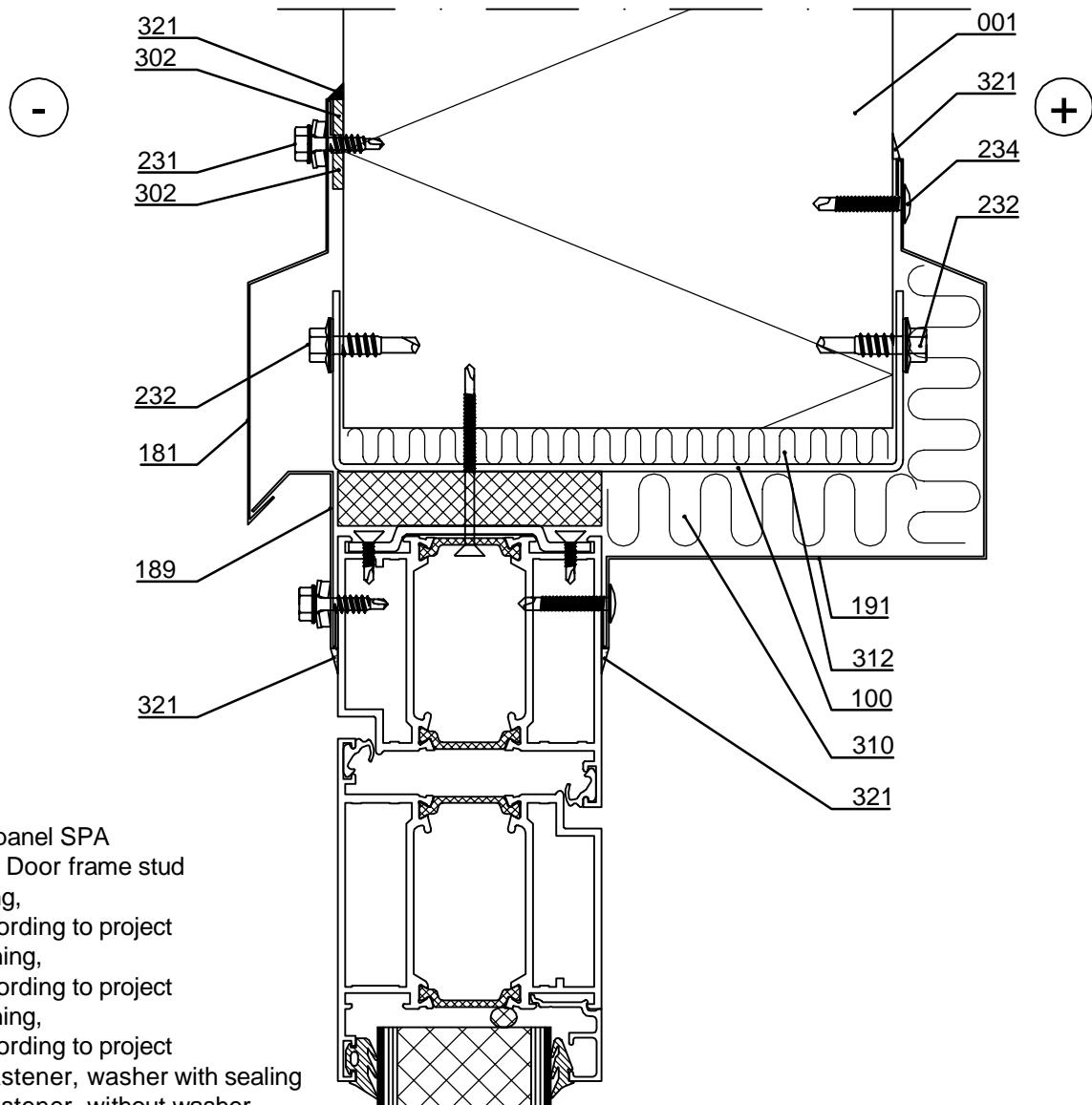
Sandwich panel SPA, horizontal installation
Door, vertical section
Invisible flashing

Date 01.10.2025	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 panels.

Note! Remember to seal the grooves of the panels 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).





Contents of drawing

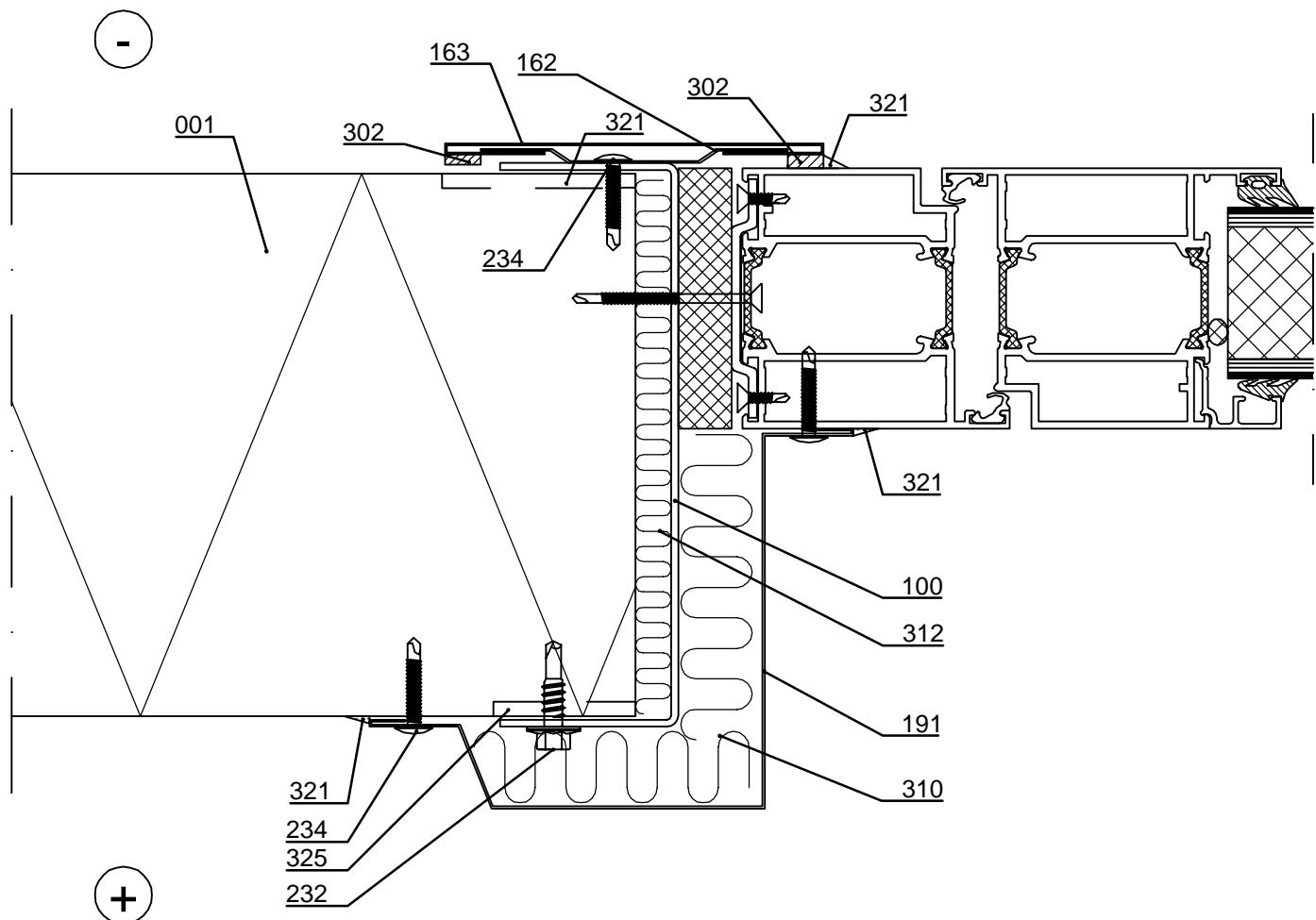
Sandwich panel SPA, horizontal installation
Door, horizontal section
Invisible flashing

Date 01.10.2025	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 panels.

Note! Remember to seal the grooves of the panels 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).



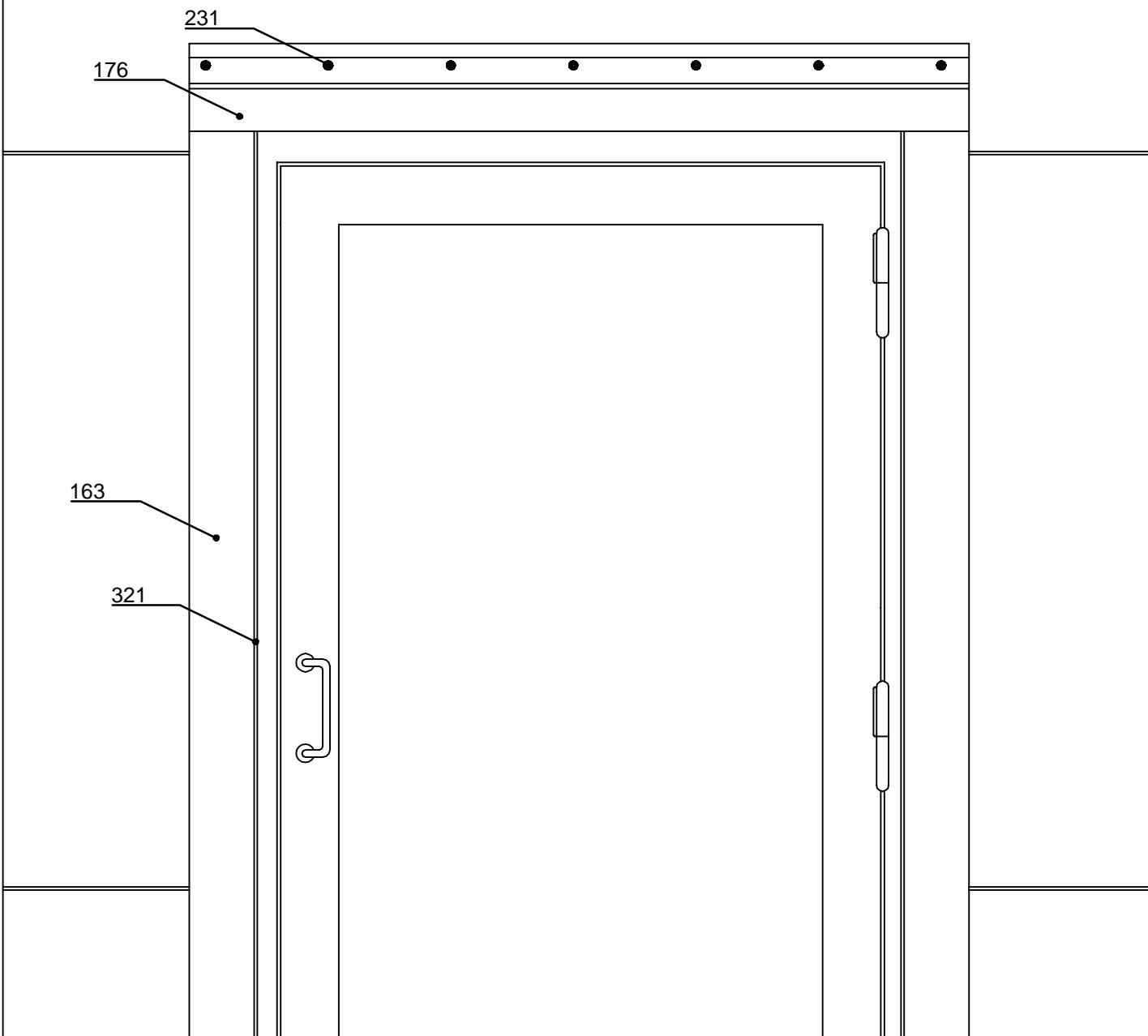
- 001. Sandwich panel SPA
- 100. /EA1D____/ Door frame stud
- 162. /EA1WXBI/ Window bottom flashing Invisible
- 163. /EA1WEI/ Window flashing Invisible
- 191. Cover flashing, $t = 0.6$ mm, according to project
- 232. Flashing fastener, without washer
- 234. Flat head flashing fastener
- 302. /EA3SS410/ Sealing strip /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)
- 310. Mineral wool
- 312. /EAWS____/ Mineral wool
- 321. Ruukki sealant mastic
- 325. Ruukki sealant mastic during installation to outer- and inner groove

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Contents of drawing

Sandwich panel SPA, horizontal installation
Door
Invisible flashing

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA09-32E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.



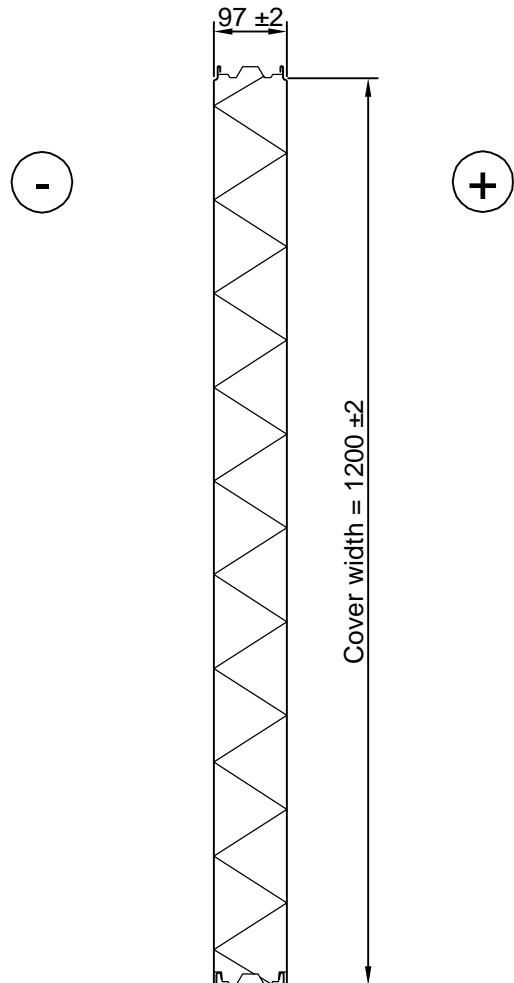
- 163. /EA1WEI/ Window flashing Invisible
- 176. Drip flashing, $t = 0.6$ mm, according to project
- 231. Flashing fastener, washer with sealing
- 321. Ruukki sealant mastic
- Ruukki's delivery

RUUKKI

Contents of drawing

Sandwich panel SPA100

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA10-2E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building	File nr.	

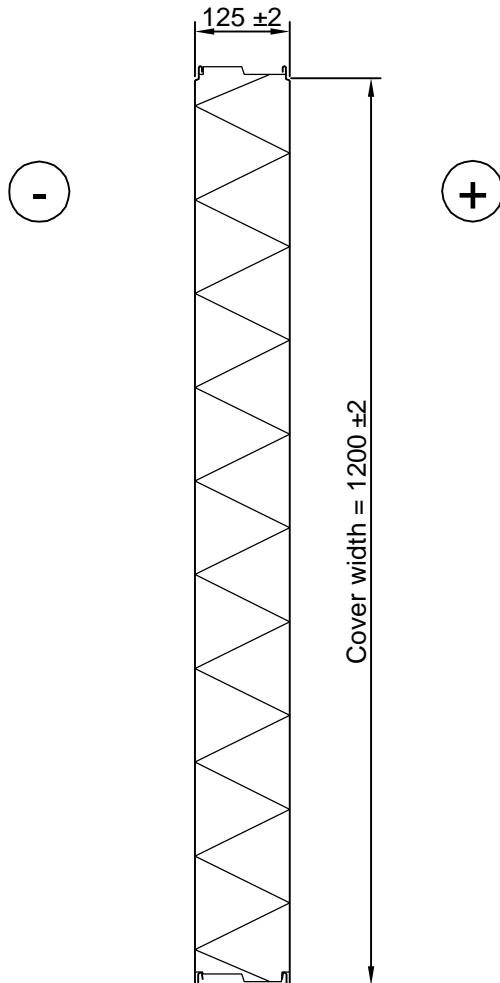


RUUKKI

Contents of drawing

Sandwich panel SPA125

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA10-3E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.

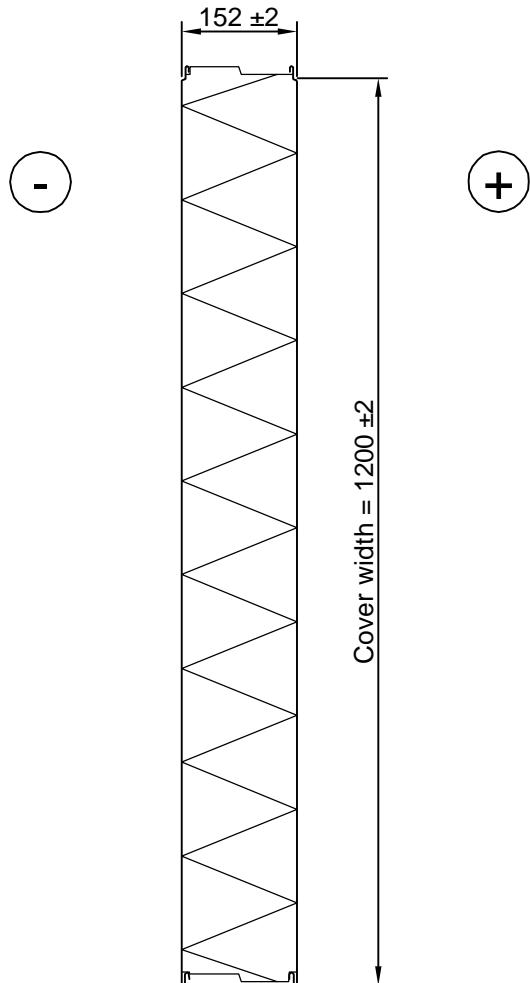


RUUKKI

Contents of drawing

Sandwich panel SPA150

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA10-4E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.

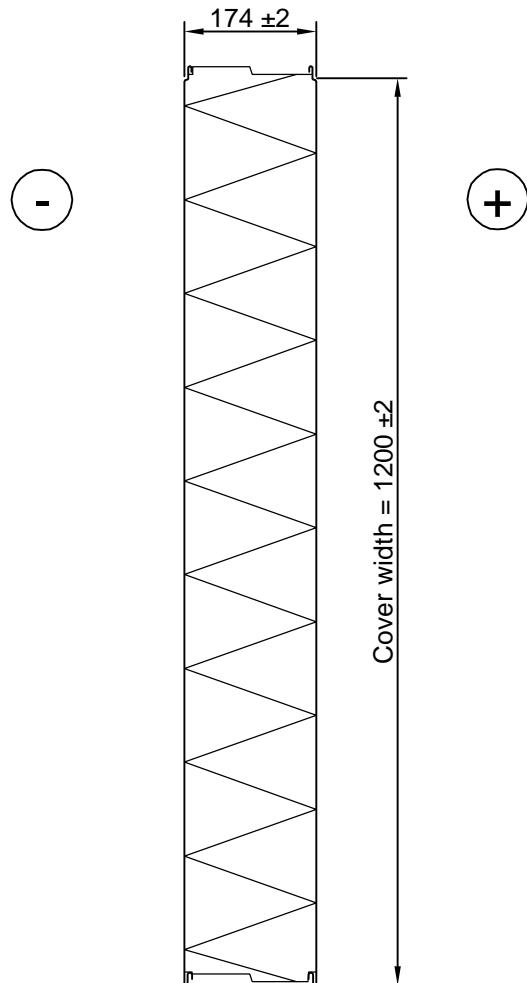


RUUKKI

Contents of drawing

Sandwich panel SPA175

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA10-5E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.

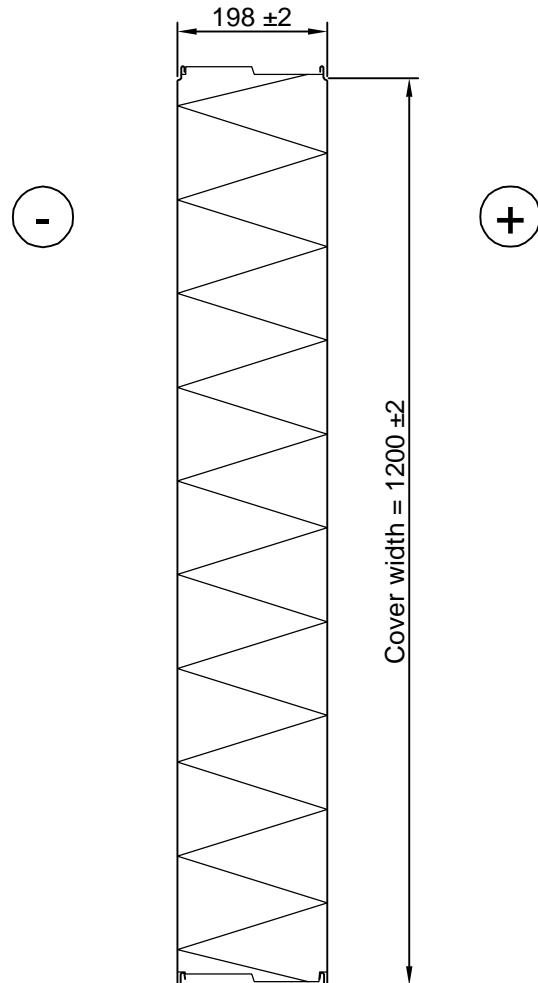


RUUKKI

Contents of drawing

Sandwich panel SPA200

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA10-6E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.

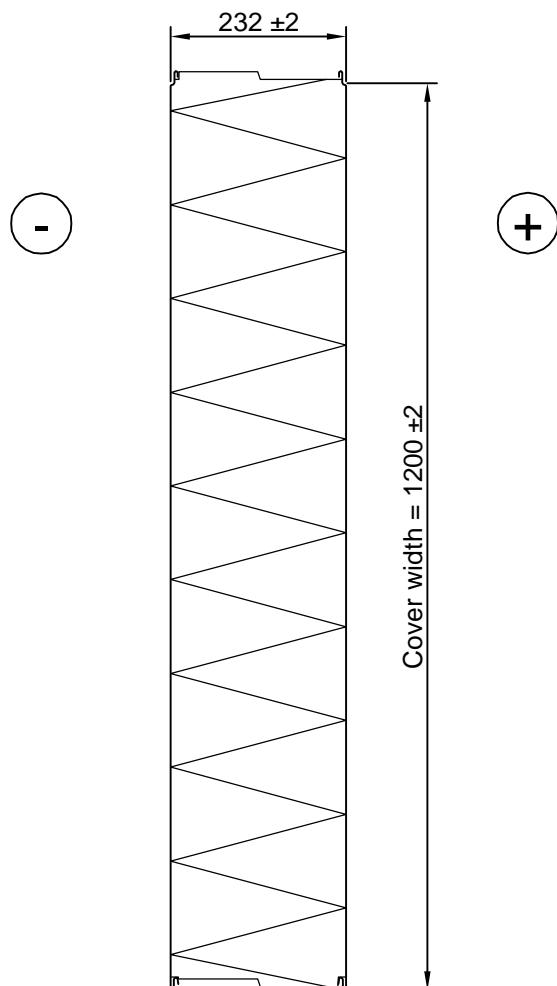


RUUKKI

Contents of drawing

Sandwich panel SPA230

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA10-7E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.

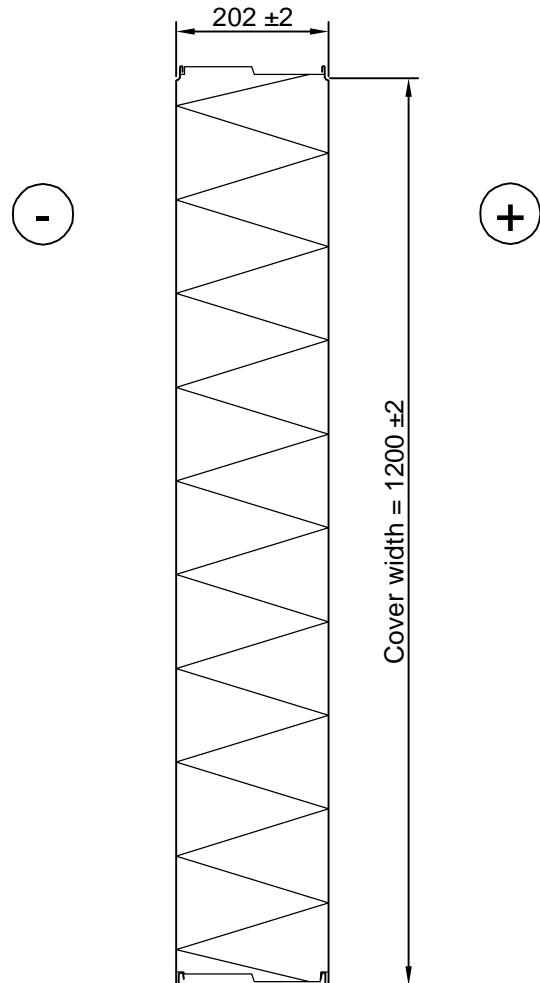


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Contents of drawing

Sandwich panel SPA200+

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA10-8E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.

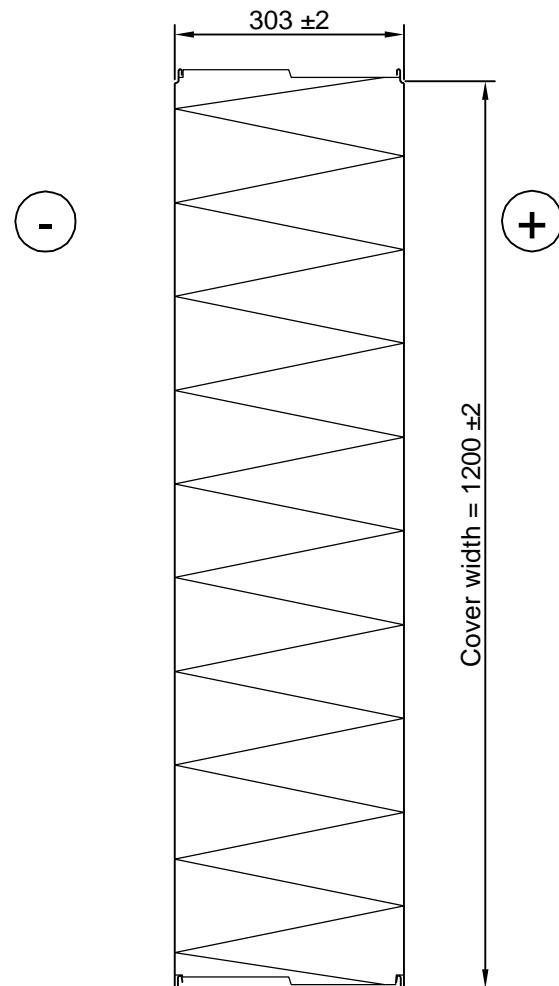


RUUKKI

Contents of drawing

Sandwich panel SPA300

Date 01.10.2025	Rev. date	Work nr.	Drawing nr. SPA10-9E-EN
Drawn by Ruukki	Rev.		
Scale 1:10	Building		File nr.



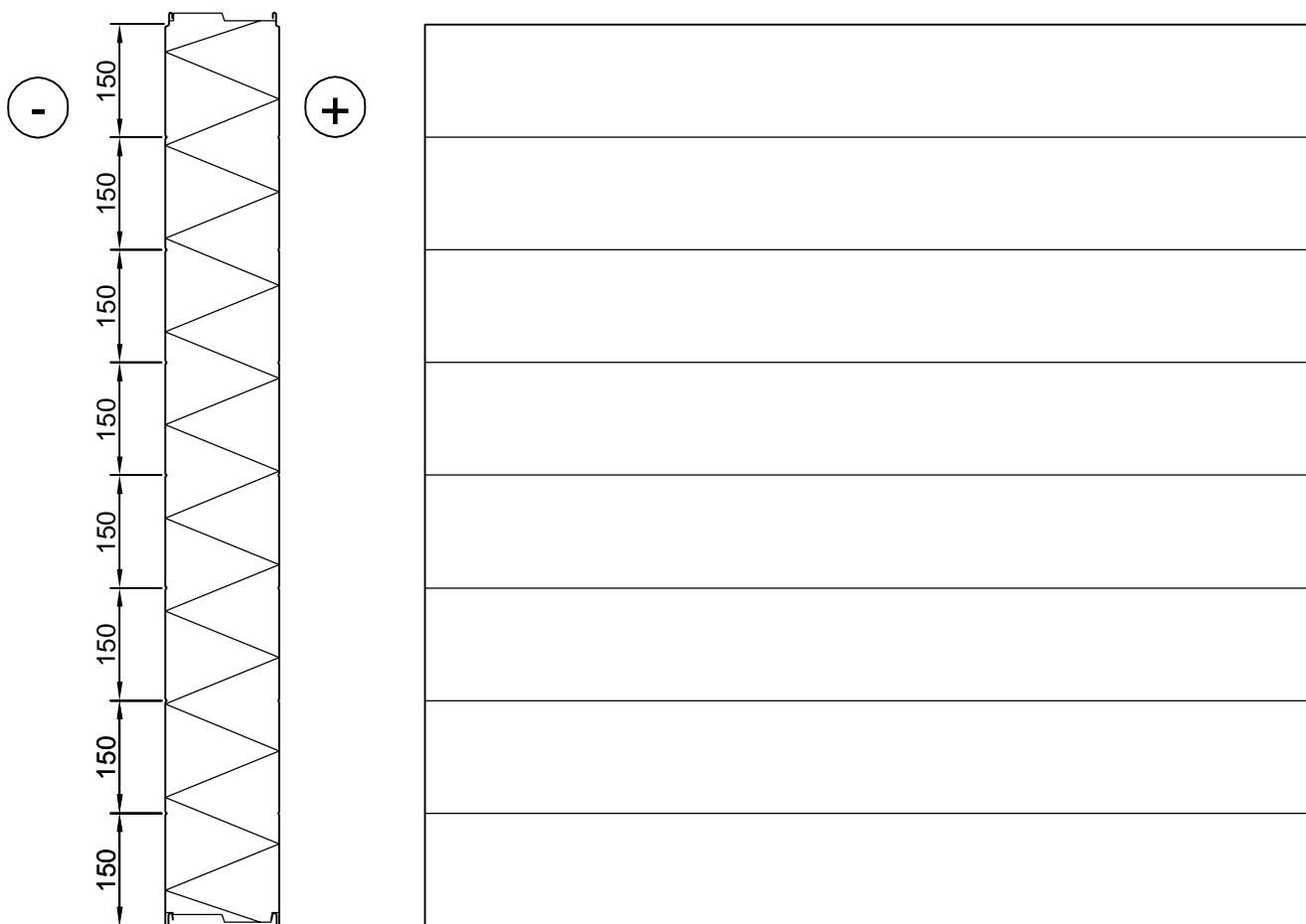
RUUKKI

Contents of drawing

**Sandwich panel SPA
Rib R150 surface profiling**

Date 01.10.2025	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.



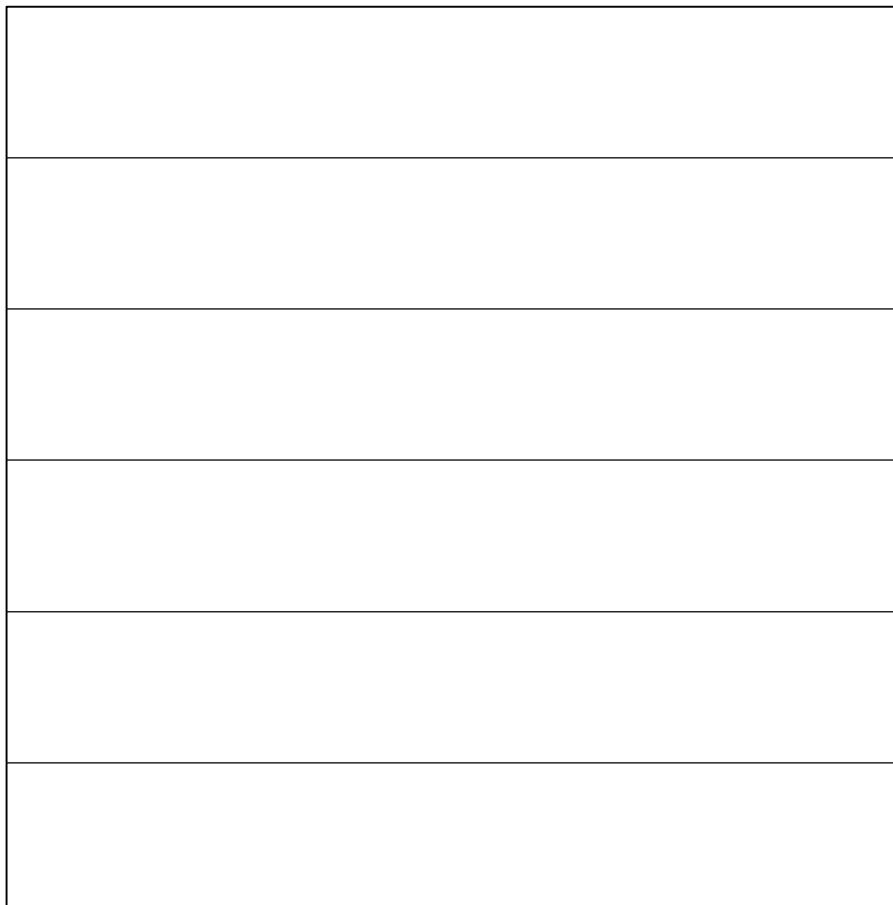
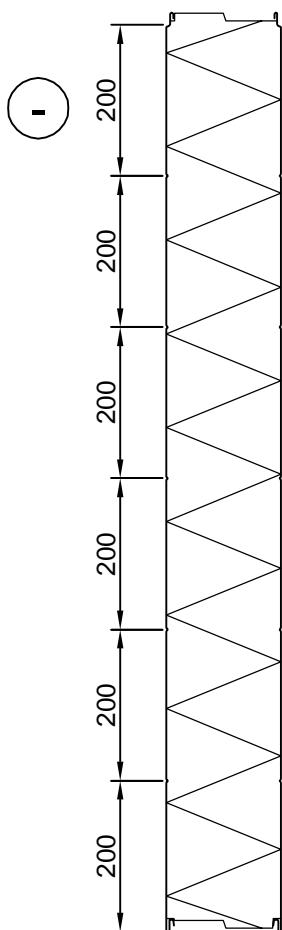
RUUKKI

Contents of drawing

**Sandwich panel SPA
Rib R200 surface profiling**

Date 01.10.2025	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.



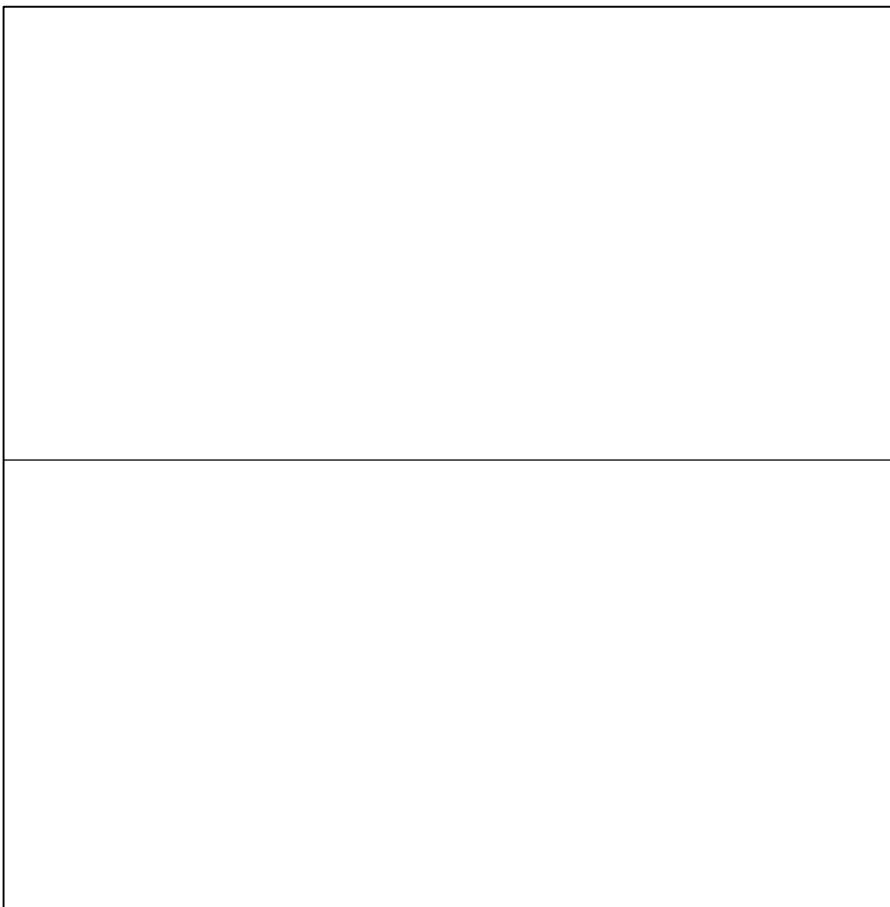
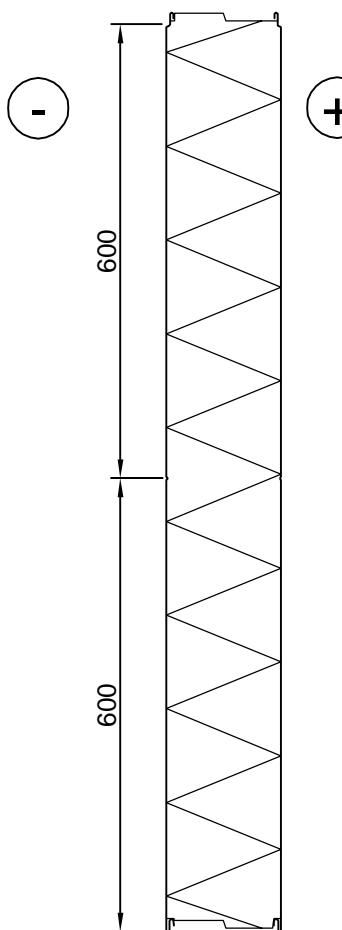
RUUKKI

Contents of drawing

**Sandwich panel SPA
Rib R600 surface profiling**

Date 01.10.2025	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.



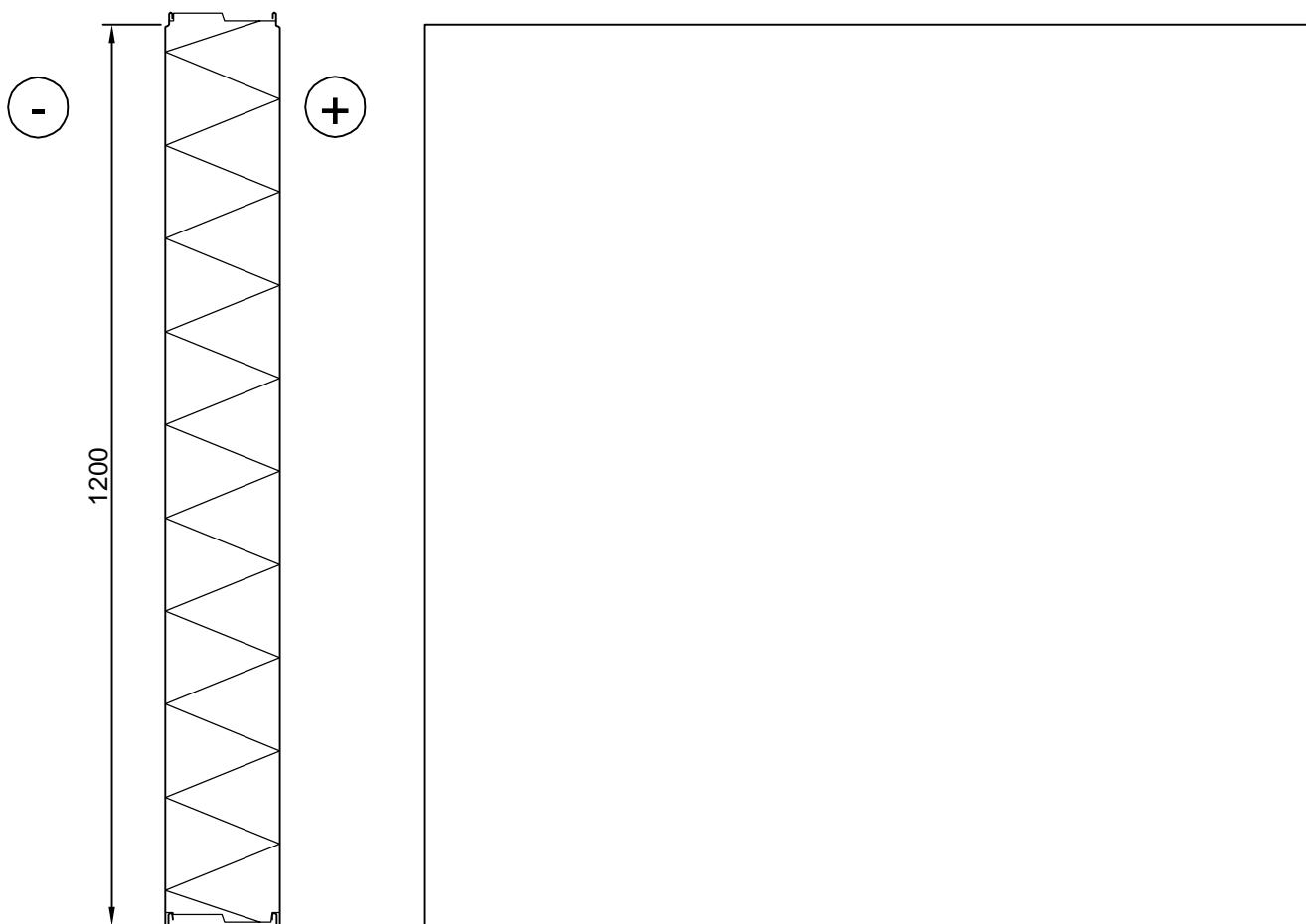
RUUKKI

Contents of drawing

**Sandwich panel SPA
Smooth F surface (no profiling)**

Date 01.10.2025	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.



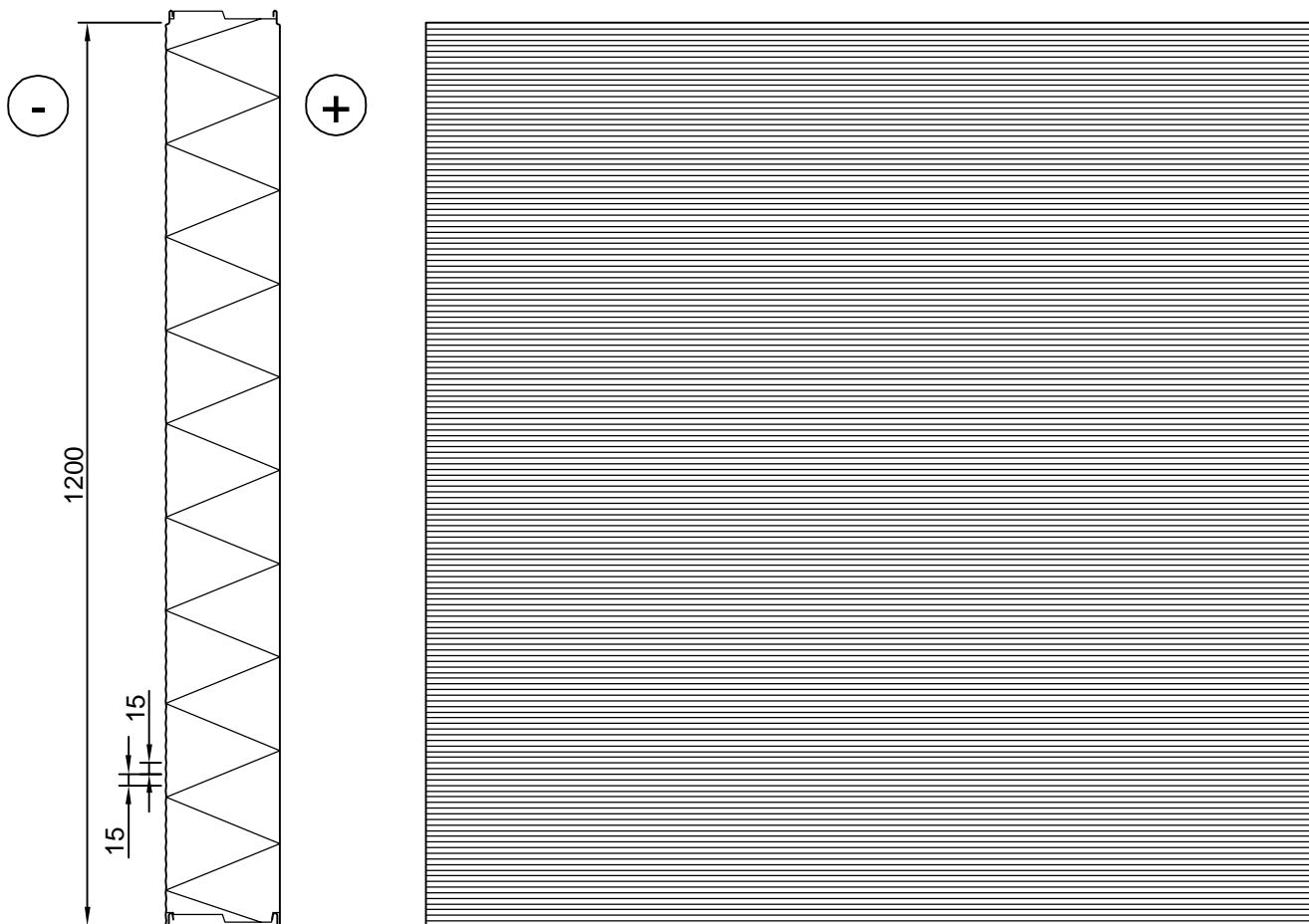
RUUKKI

Contents of drawing

**Sandwich panel SPA
M15 (Micro) surface profiling**

Date 01.10.2025	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.



RUUKKI

Contents of drawing

**Sandwich panel SPA
L50 (Linear) surface profiling**

Date 01.10.2025	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.

