Describer on Occupa	and a discoving
Drawing nr. Cont	ents of drawing
SP2E-PIR-ENERGY-H01-EN	Horizontal installation, Plinth detail
SP2E-PIR-ENERGY-H02-EN	Horizontal installation, Plinth detail
SP2E-PIR-ENERGY-H03-EN	Horizontal installation, Plinth detail
SP2E-PIR-ENERGY-H04-EN	Horizontal installation, Plinth detail
	,
SP2E-PIR-ENERGY-H05-EN	Horizontal installation, Joints between panels
SP2E-PIR-ENERGY-H06-EN	Horizontal installation, Joints between panels
SP2E-PIR-ENERGY-H07-EN	Horizontal installation, Joints between panels
SP2E-PIR-ENERGY-H08-EN	Horizontal installation, Window joint
SP2E-PIR-ENERGY-H09-EN	Horizontal installation, Window joint
SP2E-PIR-ENERGY-H10-EN	Horizontal installation, Parapet, end eaves
SP2E-PIR-ENERGY-H11-EN	Horizontal installation, Roof drainage, side eaves
SP2E-PIR-ENERGY-H12-EN	Horizontal installation, Joints between panels, Joint sealing at outer groove
SP2E-PIR-ENERGY-H13-EN	Horizontal installation, Joints between panels, Joint sealing at outer groove
SFZE-FIK-ENERGT-ITI3-EN	Tionzontal installation, solitis between panels, soliti sealing at little groove
SP2E-PIR-ENERGY-H14-EN	Cantilever eaves / Vapor barrier, plastic membrane / Load-bearing sheet
SP2E-PIR-ENERGY-H15-EN	Cantilever eaves / Vapor barrier, plastic membrane / Hollow core slab
SP2E-PIR-ENERGY-H16-EN	Cantilever eaves / Vapor barrier, plastic membrane / Wood element
SP2E-PIR-ENERGY-H17-EN	Cantilever eaves / Vapor barrier, bitumen membrane / Load-bearing sheet
SP2E-PIR-ENERGY-H18-EN	Cantilever eaves / Vapor barrier, bitumen membrane / Hollow core slab
SP2E-PIR-ENERGY-H19-EN	Round pass-through / Vapor barrier, plastic membrane / Load-bearing sheet
SP2E-PIR-ENERGY-H20-EN	Round pass-through / Vapor barrier, plastic membrane / Hollow core slab
SP2E-PIR-ENERGY-H21-EN	Round pass-through / Vapor barrier, bitumen membrane / Load-bearing sheet
SP2E-PIR-ENERGY-H22-EN	Round pass-through / Vapor barrier, bitumen membrane / Hollow core slab
SP2E-PIR-ENERGY-H23-EN	Smoke hatch / Vapor barrier, plastic membrane / Load-bearing sheet
SP2E-PIR-ENERGY-H24-EN	Smoke hatch / Vapor barrier, plastic membrane / Hollow core slab
SP2E-PIR-ENERGY-H25-EN	Smoke hatch / Vapor barrier, bitumen membrane / Load-bearing sheet
SP2E-PIR-ENERGY-H26-EN	Smoke hatch / Vapor barrier, bitumen membrane / Hollow core slab

City sector	Block	Site/Reg. nr.	File nr.			
Building type			Drawing type			Nr.
Building, Name and address			Contents of drawing  Sandwich panel SP2E PIR ENERGY PRINCIPLE DETAIL DRAWINGS		Scale	
<b>LUUKKI</b>			External	walls (26 pcs)		
Ruukki Construction Oy Vimpelintie 661 FI - 62900 ALAJÄRVI FINLAND	tel +358 2059 127 fax +358 2059 27 www.ruukki.com					
Date 07.01.2022	Designer		Work nr.	Work nr.	Drw. nr.	Rev.
Drawn by Ruukki	Checked		1			



# Sandwich panel SP2E PIR ENERGY Accessory numbers in details

Date 15.06.2011 Drawn by Ruukki	Rev. date 30.11.2021 Rev.	Work nr.	Drawing nr. SP2E-PIR-ENERGY-00-EN
Scale	Building		File nr.

### **SANDWICH PANELS**

001. Sandwich panel SP2E PIR ENERGY 120-200

### **FLASHINGS**

100. Standard purlins and starter tracks

101-109. Purlins and other t ≥ 2 mm fastening flashings

111-119. Plinth flashings

121-124. Internal flashings

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

161-179. Eave flashings

181-194. Window- and door flashings

### **FASTENERS**

201. Self-drilling element screw, washer with sealing

231. Flashing fastener, washer with sealing

232. Flashing fastener, without washer

234. Flat headed flashing fastener

252. Concrete screw panel fastener, washer with sealing

265. Fastener screw to wood, washer with sealing

266. Concrete screw

271. Rivet

### **SEALANTS AND INSULATIONS**

300. Expandable sealing band

301. Plinth sealing expanding

302. Sealing band for flashings

303. Sealing band for frame

307. Joint sealing Nordic

308. Joint sealing corner Nordic

311. Mineral wool

312. Mineral wool band

321. Elastic sealant

325. Elastic sealant during installation

327. Elastic polyurethane, eg. Illbruck FM330 or FM637

328. Elastic sealant

332. PU foam

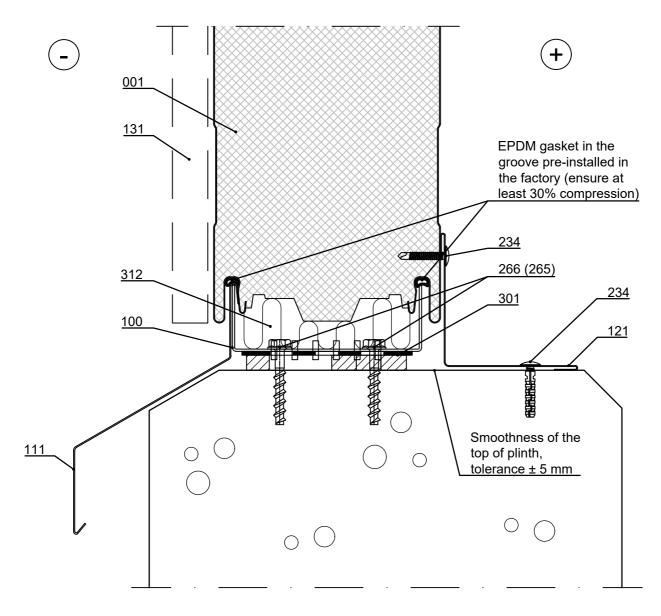
### **ADDITIONAL**

351. Z-Profile



Sandwich panel SP2E PIR ENERGY Horizontal installation - Plinth detail Vertical section, Option 1

Date	Rev. date	Work nr.	Drawing nr.
15.06.2011	30.11.2021		SDOE DID ENEDOV HOT EN
Drawn by	Rev.		SP2E-PIR-ENERGY-H01-EN
Ruukki			
Scale	Building		File nr.
1.2			

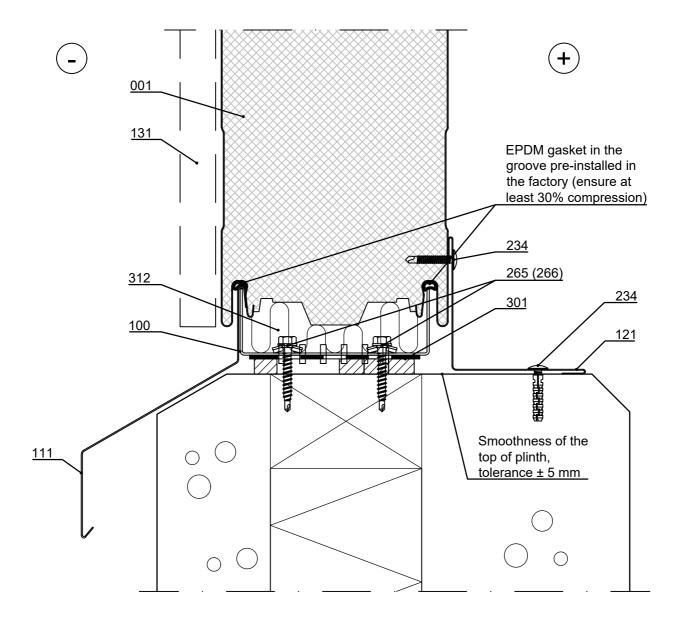


- ☐ 001. Sandwich panel SP2E PIR ENERGY
- ☐ 100. /EA1U / Starter track
- ☐ 111. /EA1P3/ Plinth flashing (installed simultaneously with elements)
- ☐ 121. /EA1B05\_/ Internal flashing
- ☐ 131. /EA1B16/ Vertical joint flashing
- □ 234. Flat head flashing fastener
- ☐ 265. /S3H55042WA4B/ Fastener, wood c/c600
- ☐ 266. Concrete-screw, concrete c/c600
- □ 301. /EA3PSE/ Plinth sealing expanding (wider sealing on internal side)
- ☐ 312. /EAWS\_\_\_/ Mineral wool band
- ☑ Ruukki's delivery



Sandwich panel SP2E PIR ENERGY Horizontal installation - Plinth detail Vertical section, Option 2

Date	Rev. date	Work nr.	Drawing nr.
15.06.2011	30.11.2021		SP2E-PIR-ENERGY-H02-EN
Drawn by	Rev.		SPZE-PIR-EINERG I-HUZ-EIN
Ruukki			
Scale	Building		File nr.
1.2			

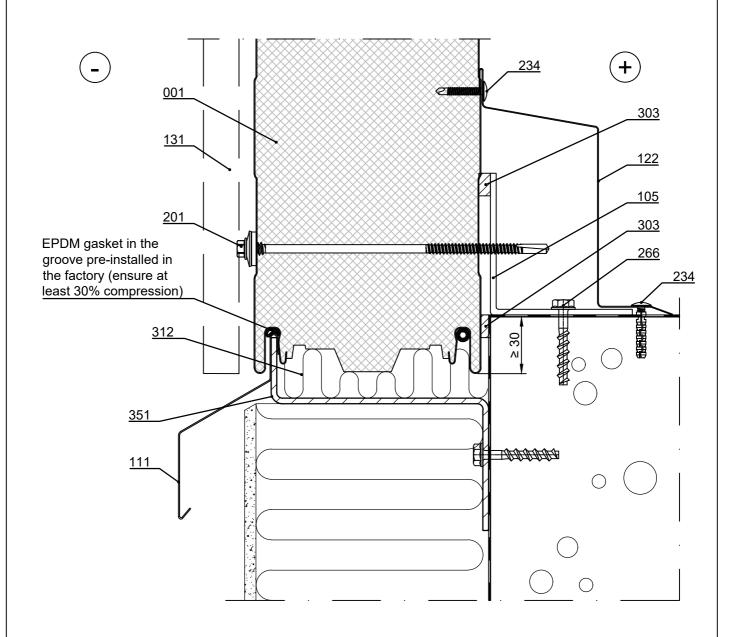


- □ 001. Sandwich panel SP2E PIR ENERGY
- ☐ 100. /EA1U / Starter track
- ☐ 111. /EA1P3/ Plinth flashing (installed simultaneously with elements)
- ☐ 121. /EA1B05\_/ Internal flashing
- ☐ 131. /EA1B16/ Vertical joint flashing
- □ 234. Flat head flashing fastener
- ☐ 265. /S3H55042WA4B/ Fastener, wood c/c600
- ☐ 266. Concrete-screw, concrete c/c600
- ☐ 301. /EA3PSE/ Plinth sealing expanding (wider sealing on internal side)
- ☐ 312. /EAWS\_\_\_/ Mineral wool band
- ☑ Ruukki's delivery



Sandwich panel SP2E PIR ENERGY Horizontal installation - Plinth detail Vertical section, Option 3

Date	Rev. date	Work nr.	Drawing nr.
15.06.2011	30.11.2021		SP2E-PIR-ENERGY-H03-EN
Drawn by	Rev.		SPZE-PIR-EINERGT-HUS-EIN
Ruukki			
Scale	Building		File nr.
1.2			



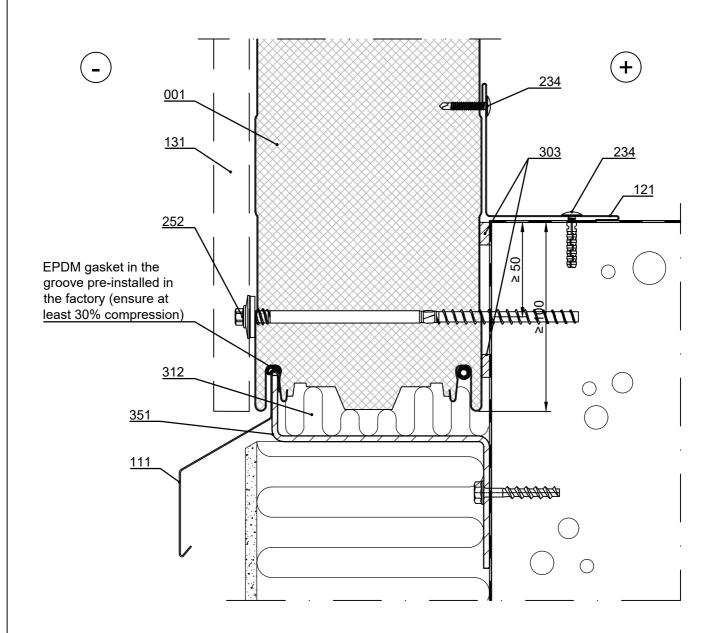
- □ 001. Sandwich panel SP2E PIR ENERGY
- □ 105. /EA1L7530ZN/ Support L-purlin, (t=3mm)
- ☐ 111. /EA1P3/ Plinth flashing
- (installed simultaneously with elements)
- ☐ 122. /EA1B02\_/ Internal flashing
- ☐ 131. /EA1B16/ Vertical joint flashing
- ☐ 201. Self-drilling element screw, washer with sealing
- ☐ 234. Flat head flashing fastener
- ☐ 266. Concrete-screw, concrete c/c600
- ☐ 303. /EA3SS1210/ Sealing strip
- ☐ 312. /EAWS\_\_\_/ Mineral wool band
- ☐ 351. Z-Profile (stainless steel), continuous acc. to project

☑ Ruukki's delivery



Sandwich panel SP2E PIR ENERGY Horizontal installation - Plinth detail Vertical section, Option 4

Date	Rev. date	Work nr.	Drawing nr.
15.06.2011	30.11.2021		SP2E-PIR-ENERGY-H04-EN
Drawn by	Rev.		SPZE-PIR-ENERGY-HU4-EIN
Ruukki			
Scale	Building	•	File nr.
1.2			



- □ 001. Sandwich panel SP2E PIR ENERGY
- ☐ 111. /EA1P3/ Plinth flashing
- (installed simultaneously with elements)
- ☐ 121. /EA1B05\_/ Internal flashing
- ☐ 131. /EA1B16/ Vertical joint flashing
- □ 234. Flat head flashing fastener
- ☑ Ruukki's delivery

- ☐ 252. Concrete screw panel fastener, washer with sealing
- ☐ 303. /EA3SS1210/ Sealing strip
- ☐ 312. /EAWS\_\_\_/ Mineral wool band
- ☐ 351. Z-Profile (stainless steel), continuous

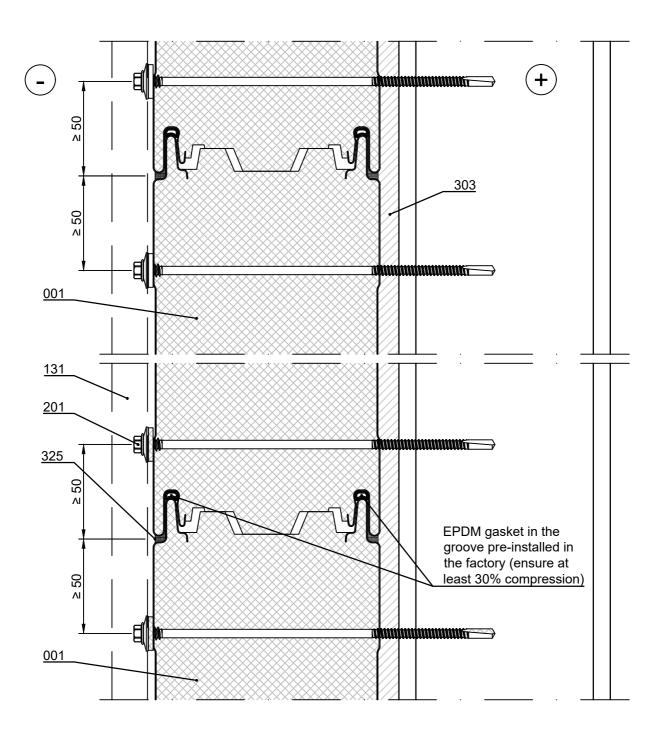
acc. to project

## **TUUKKI**

Contents of drawing

Sandwich panel SP2E PIR ENERGY
Horizontal installation - Joints between panels
Vertical section

Date	Rev. date	Work nr.	Drawing nr.	
15.06.2011	30.11.2021		SDOE DID ENEDOV HOE EN	
Drawn by	Rev.		SP2E-PIR-ENERGY-H05-EN	
Ruukki				
Scale	Building		File nr.	
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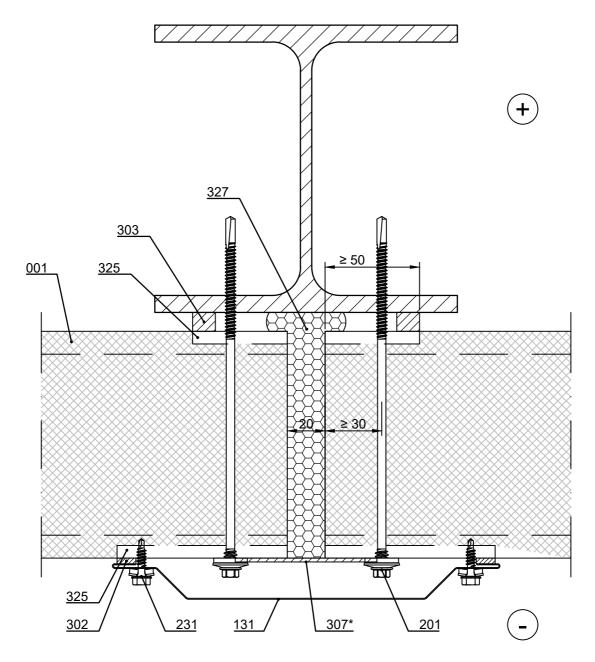
- ☐ 001. Sandwich panel SP2E PIR ENERGY
- □ 131. /EA1B16/ Vertical joint flashing
- ☐ 201. Self-drilling element screw, washer with sealing
- ☑ Ruukki's delivery

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



Sandwich panel SP2E PIR ENERGY
Horizontal installation - Joints between panels
Horizontal section

Date	Rev. date	Work nr.	Drawing nr.
15.06.2011	30.11.2021		SP2E-PIR-ENERGY-H06-EN
Drawn by	Rev.		SPZE-PIR-ENERGT-HUO-EIN
Ruukki			
Scale	Building	·	File nr.
1.2	•		



- □ 001. Sandwich panel SP2E PIR ENERGY
- ☐ 131. /EA1B16/ 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

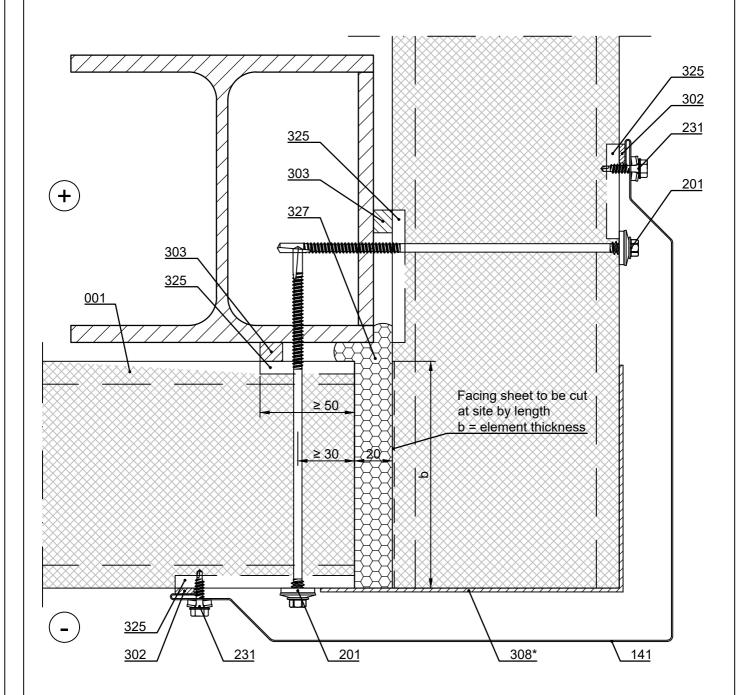
- ☐ 303. /EA3SS1210/ Sealing strip
- □ 307\*. /EA3JSN7525/ Joint sealing Nordic (recommended to assure tightness)
- □ 325. /EA3SM310\_\_\_/ Elastic sealant during inst. to outer female groove in length equivalent to vertical joint flashing width and to inner female groove from panel end to sealing
- ☐ 327. /EA6FM330/ Elastic polyurethane foam

## **TUUKKI**

Contents of drawing

Sandwich panel SP2E PIR ENERGY
Horizontal installation - Joints between panels
Horizontal section

Date	Rev. date	Work nr.	Drawing nr.
15.06.2011	30.11.2021		SP2E-PIR-ENERGY-H07-EN
Drawn by	Rev.		SFZE-FIR-ENERGY-HUT-EN
Ruukki			
Scale	Building		File nr.
1.2	·		



- □ 001. Sandwich panel SP2E PIR ENERGY
- ☐ 141. /EA1B28\_\_\_/ External corner 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)
- ☐ 303. /EA3SS1210/ Sealing strip
- ☐ 308\*. /EA3JSCN37025/ Joint sealing corner Nordic (recommended to assure tightness)
- ☐ 325. /EA3SM310\_\_\_/ Elastic sealant during inst. to outer female groove in length equivalent to vertical joint flashing width and to inner female groove from panel end to sealing
- ☐ 327. /EA6FM330/ Elastic polyurethane foam

☑ Ruukki's delivery



Sandwich panel SP2E PIR ENERGY Horizontal installation - Window joint Horizontal section

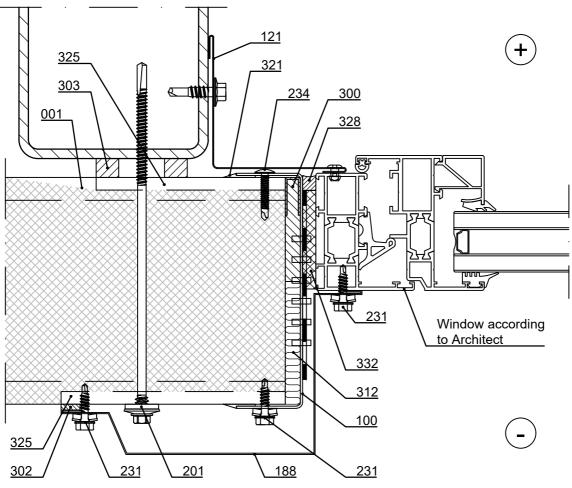
Date	Rev. date	Work nr.	Drawing nr.
15.06.2011	30.11.2021		SP2E-PIR-ENERGY-H08-EN
Drawn by	Rev.		SPZE-PIR-ENERGT-HUO-EIN
Ruukki			
Scale	Building	•	File nr.
1:2			

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

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

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

Supporting structures, if necessary, according to structural designer.



□ 001. Sandwich panel SP2E PIR ENERGY ☐ 302. /EA3SS410/ Sealing strip ☐ 100. /EA1W / Window purlin /EA3SS510/ Sealing band EPDM for flashing ☐ 121. /EA1B05 / Internal flashing (for demanding climate conditions e.g. coastal areas) ☐ 188. Cover flashing, t = 0.6 mm, acc. to project ☐ 303. /EA3SS1210/ Sealing strip □ 201. Self-drilling element screw, washer with sealing □ 312. /EAWS / Mineral wool band ☐ 231. Flashing fastener, washer with sealing ☐ 321. /EA3SM310\_\_\_/ Elastic sealant ☐ 234. Flat head flashing fastener ☐ 325. /EA3SM310\_\_\_/ Elastic sealant during inst. ☐ 300. /EA3SWE54318/ Expandable sealing band to outer and inner female grooves (plastic tape facing inside) ☐ 328. Elastic sealant

☐ 332. PU foam

☑ Ruukki's delivery



Sandwich panel SP2E PIR ENERGY Horizontal installation - Window joint Vertical section

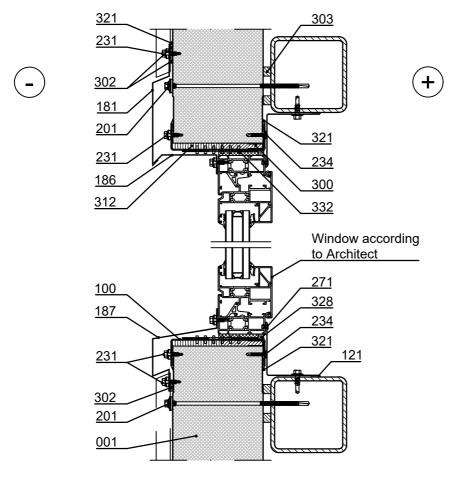
Date	Rev. date	Work nr.	Drawing nr.
15.06.2011	30.11.2021		SP2E-PIR-ENERGY-H09-EN
Drawn by	Rev.		SPZE-PIR-ENERGT-HU9-EN
Ruukki			
Scale	Building	•	File nr.
1:5			

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

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

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

Supporting structures, if necessary, according to structural designer.



- □ 001. Sandwich panel SP2E PIR ENERGY □ 100. /EA1W / Window purlin □ 121. /EA1B05 / Internal flashing ☐ 181. Drip flashing, t = 0.6 mm, according to project ☐ 186. Support- / cover flashing, t = 0.6 mm, acc. to project ☐ 187. External window flashing, t = 0.6 mm, acc. to project ☐ 201. Self-drilling element screw, washer with sealing ☐ 231. Flashing fastener, washer with sealing □ 234. Flat head flashing fastener □ 271. Rivet
- ☑ Ruukki's delivery

- ☐ 300. /EA3SWE54318/ Expandable sealing band (plastic tape facing inside)
- ☐ 302. /EA3SS410/ Sealing strip /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)
- ☐ 303. /EA3SS1210/ Sealing strip
- ☐ 312. /EAWS / Mineral wool band
- □ 321. /EA3SM310\_\_\_/ Elastic sealant
- ☐ 328. Elastic sealant
- ☐ 332. PU foam

## **LUUKKI**

Contents of drawing

Sandwich panel SP2E PIR ENERGY Horizontal installation - Parapet, end eaves Vertical section

Insulation thickness is dimensioned

according to project.

Date	Rev. date	Work nr.	Drawing nr.
15.06.2011	30.11.2021		SDOE DID ENEDGY H40 EN
Drawn by	Rev.		SP2E-PIR-ENERGY-H10-EN
Ruukki			
Scale	Building	•	File nr.
1.5			

Supports and fastening of Horizontal load-bearing sheet according to 100 support studwork structural designer. Plywood Secondary steel supports (T-steel) 161 Vertical for the element according to support studwork structural designer. 232 265 Vapour barrier and insulation support 163 fastening, see Detail A Waterproofing is not fastened to structures below L~400 mm 171 Ventilation grooves **DETAIL A** 311 <u>1</u>71 001 Panel gaps between the T-steel profiles 30mm Supporting steel structure at element joints (T-Profile)

☑ Ruukki's delivery

☐ 100. /EA1EP\_\_\_/ Purlin

□ 001. Sandwich panel SP2E PIR ENERGY

☐ 171. Insulation support flashing, t = 0.6 mm

☐ 161. Eave flashing, t = 0.6 mm, according to project

☐ 163. Storm flashing, t = 0.6 mm, according to project

☐ 131. /EA1B16/ Vertical joint flashing

☐ 173. U-flashing to vapour barrier fastening, t = 0.6 mm, according to project

□ 232. Flashing fastener, without washer

☐ 265. Fastener screw to wood, washer with sealing

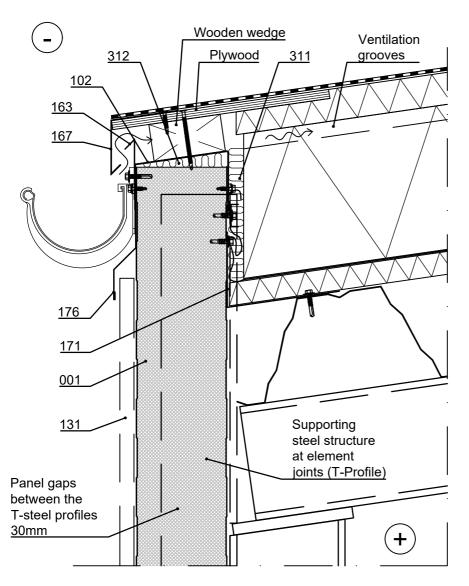
☐ 302. /EA3SS410/ Sealing, between panel and vapour barrier

☐ 311. /EAWS5657850/ Mineral wool



Sandwich panel SP2E PIR ENERGY
Horizontal installation - Roof drainage, side eaves
Vertical section

Date	Rev. date	Work nr.	Drawing nr.
15.06.2011	30.11.2021		SP2E-PIR-ENERGY-H11-EN
Drawn by	Rev.		SPZE-PIR-EINERGT-HTT-EIN
Ruukki			
Scale	Building	·	File nr.
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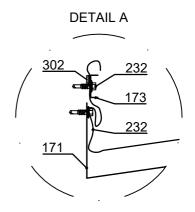


Insulation thickness is dimensioned according to project.

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

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

Vapour barrier and insulation support fastening, see Detail A



- □ 001. Sandwich panel SP2E PIR ENERGY
- ☐ 102. /EA1B20\_\_\_/ Purlin
- ☐ 131. /EA1B16/ Vertical joint flashing
- ☐ 163. Storm flashing, t = 0.6 mm, according to project
- ☐ 167. Eave flashing, t = 1.0 mm, according to project
- ☐ 171. Insulation support flashing, t = 0.6 mm
- ☐ 173. U-flashing to vapour barrier fastening, t = 0.6 mm, according to project

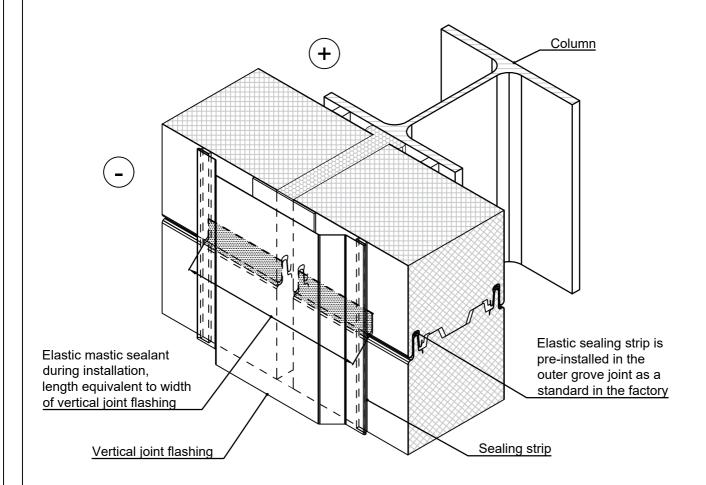
- ☐ 176. Storm flashing, t = 0.6 mm, according to project
- ☐ 232. Flashing fastener, without washer
- □ 302. /EA3SS410/ Sealing, between panel and vapour barrier
- ☐ 311. /EAWS5657850/ Mineral wool
- ☐ 312. /EAWS\_\_\_/ Mineral wool band

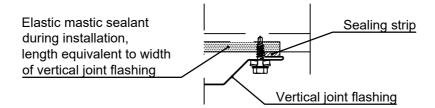
☑ Ruukki's delivery



Sandwich panel SP2E PIR ENERGY
Horizontal installation - Joints between panels
Joint sealing at outer groove

Date	Rev. date	Work nr.	Drawing nr.
15.06.2011	07.01.2022		SP2E-PIR-ENERGY-H12-EN
Drawn by	Rev.		SFZE-FIR-ENERGY-IIIZ-EN
Ruukki			
Scale	Building		File nr.
1.5			





### Horizontal installation:

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

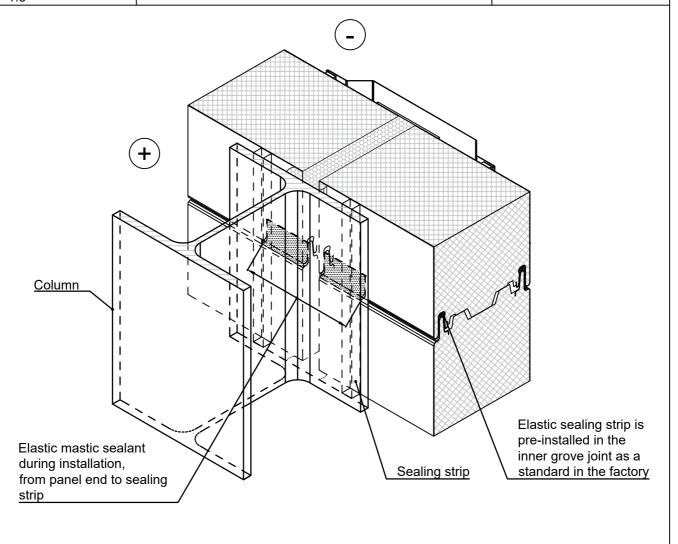
### Vertical installation:

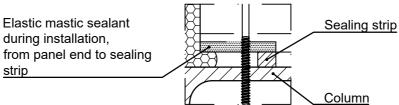
Elastic mastic sealant during installation to outer female groove in full length of panel and inner female groove 60 mm in length. It is important that the groove is completely filled with mastic sealant, i.e. it must be applied before interlocking the joint.



Sandwich panel SP2E PIR ENERGY
Horizontal installation - Joints between panels
Joint sealing at inner groove

Date	Rev. date	Work nr.	Drawing nr.
15.06.2011	07.01.2022		SDOE DID ENEDOV H42 ENI
Drawn by	Rev.		SP2E-PIR-ENERGY-H13-EN
Ruukki			
Scale	Building		File nr.
1.5			





### Horizontal installation:

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

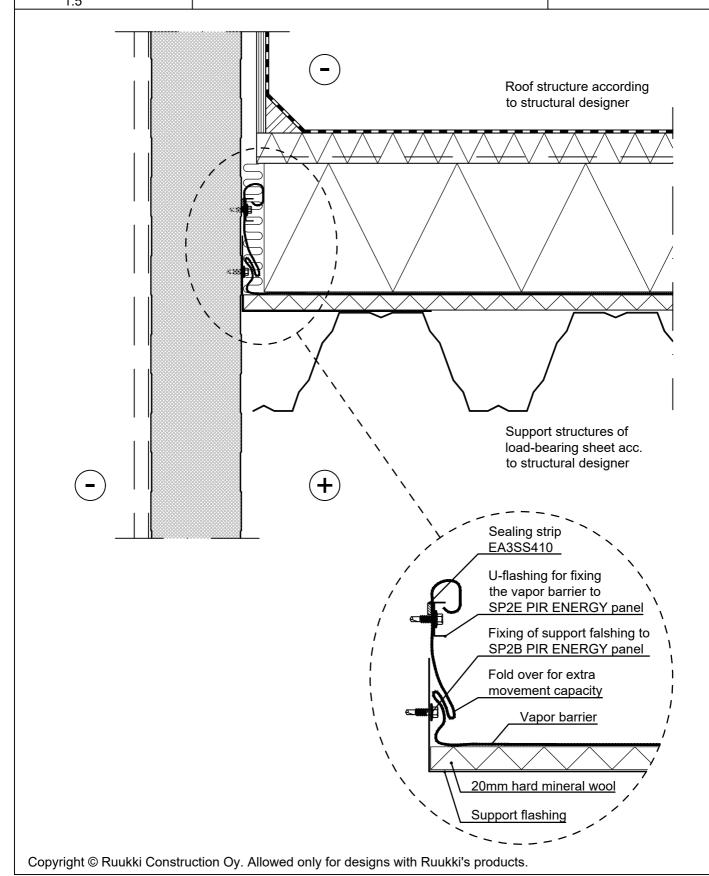
### Vertical installation:

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



Sandwich panel SP2E PIR ENERGY
Horizontal installation - Cantilever eaves
Vapor barrier (plastic) / Load-bearing sheet

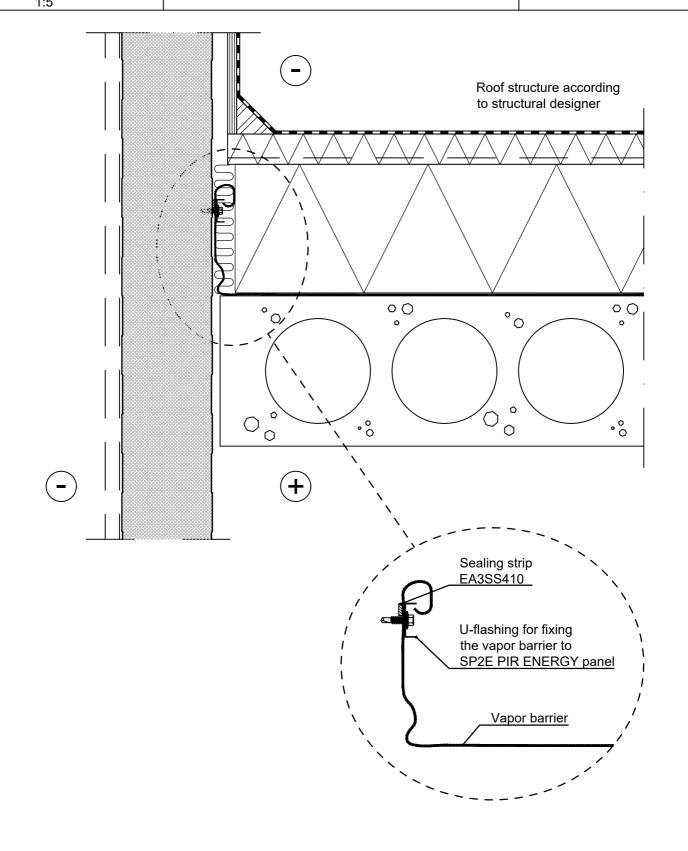
Date	Rev. date	Work nr.	Drawing nr.
15.06.2011	07.01.2022		SP2E-PIR-ENERGY-H14-EN
Drawn by	Rev.	SPZE-PIR-ENER	SPZE-PIR-EINERGT-HT4-EIN
Ruukki			
Scale	Building	•	File nr.
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Sandwich panel SP2E PIR ENERGY Horizontal installation - Cantilever eaves Vapor barrier (plastic) / Hollow core slab

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Date	Rev. date	Work nr.	Drawing nr.
15.06.2011	07.01.2022		SDOE DID ENEDGY HAS EN
Drawn by	Rev.		SP2E-PIR-ENERGY-H15-EN
Ruukki			
Scale	Building	•	File nr.
1.5	1 *		

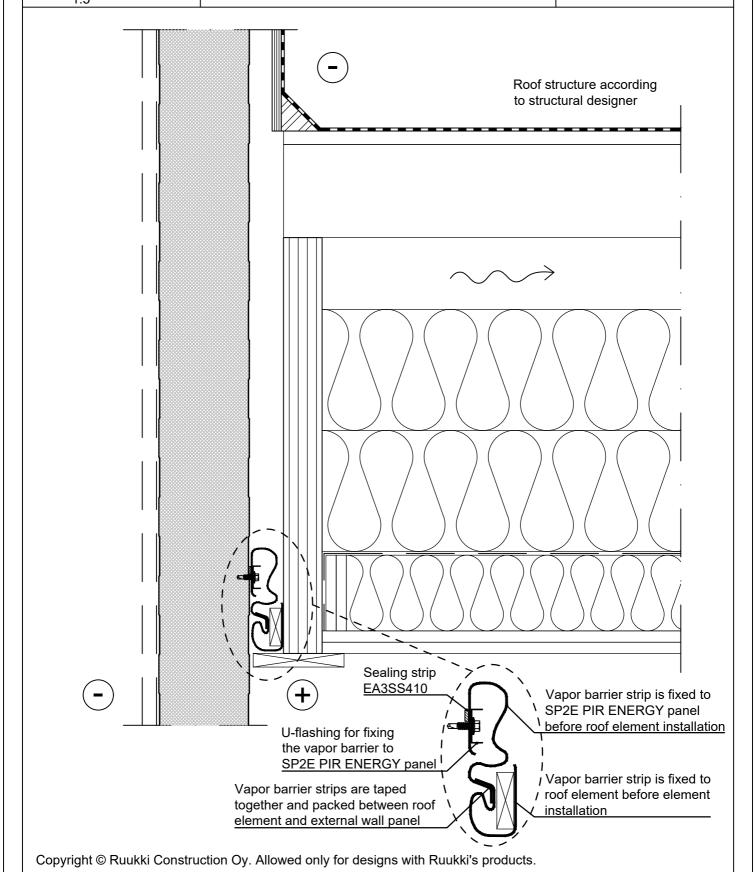


## **TUUKKI**

Contents of drawing

Sandwich panel SP2E PIR ENERGY Horizontal installation - Cantilever eaves Vapor barrier (plastic) / Wood element

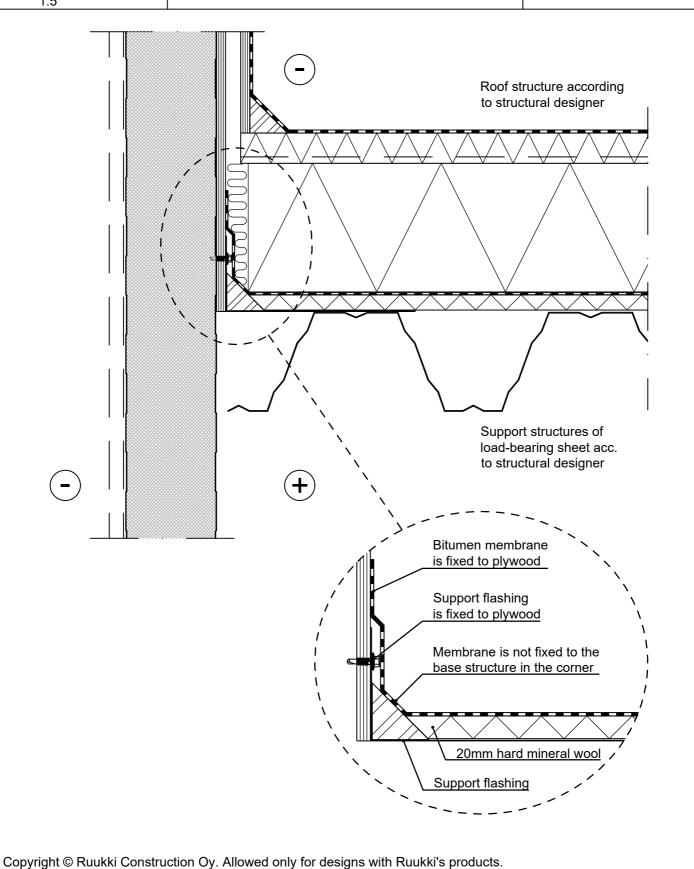
Date 15.06.2011	Rev. date 07.01.2022	Work nr.	Drawing nr. SP2E-PIR-ENERGY-H16-EN
Drawn by Ruukki	Rev.		SPZE-PIR-ENERGY-H10-EN
Scale 1.5	Building		File nr.





Sandwich panel SP2E PIR ENERGY
Horizontal installation - Cantilever eaves
Vapor barrier (bitumen) / Load-bearing sheet

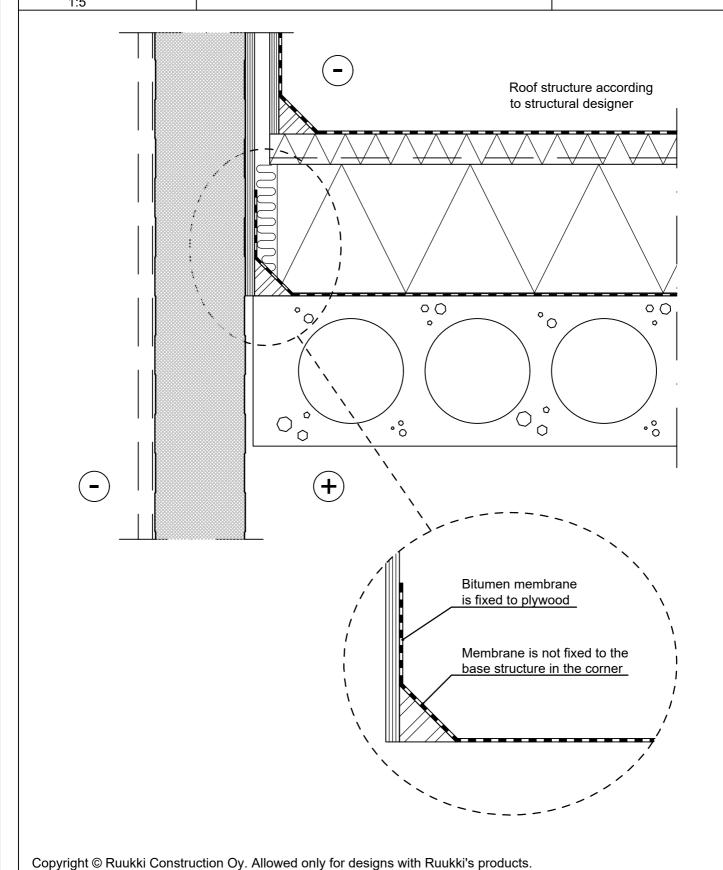
Date	Rev. date	Work nr.	Drawing nr.
15.06.2011	07.01.2022		SDOE DID ENEDGY HAZ EN
Drawn by	Rev.		SP2E-PIR-ENERGY-H17-EN
Ruukki			
Scale	Building	•	File nr.
1.5			





Sandwich panel SP2E PIR ENERGY Horizontal installation - Cantilever eaves Vapor barrier (bitumen) / Hollow core slab

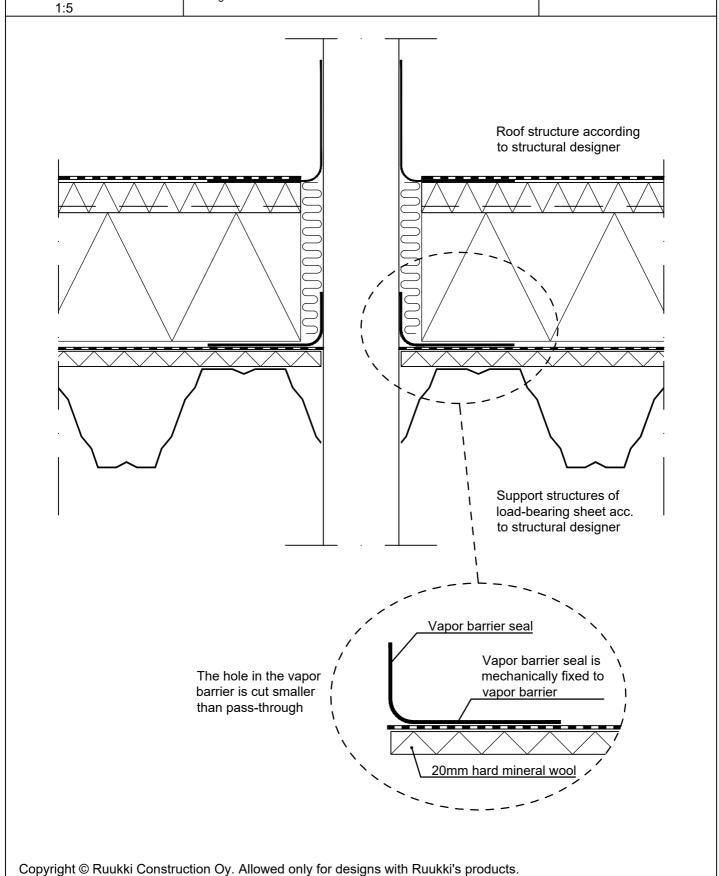
Date		Work nr.	Drawing nr.
15.06.2011	07.01.2022	0.5	CDOE DID ENEDOVINA EN
Drawn by	Rev.		SP2E-PIR-ENERGY-H18-EN
Ruukki			
Scale	Building		File nr.
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Sandwich panel SP2E PIR ENERGY Horizontal installation - Round pass-through Vapor barrier (plastic) / Load-bearing sheet

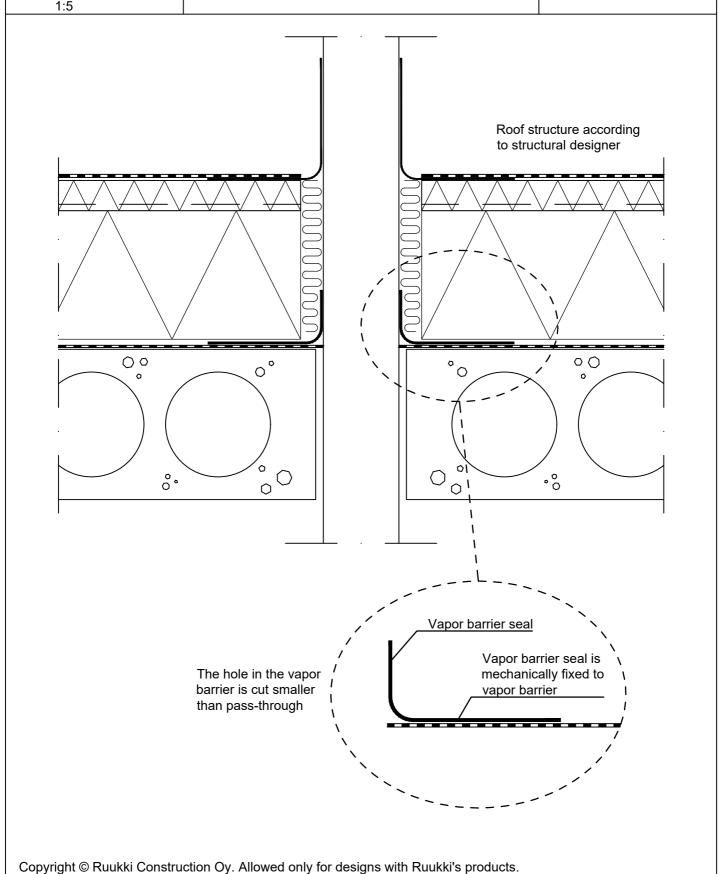
Date 45.00.0044		Work nr. Drawing nr.	Drawing nr.
15.06.2011	07.01.2022		COSE DID ENEDGY HAG EN
Drawn by	Rev.		SP2E-PIR-ENERGY-H19-EN
Ruukki			
Scale	Building		File nr.





Sandwich panel SP2E PIR ENERGY Horizontal installation - Round pass-through Vapor barrier (plastic) / Hollow core slab

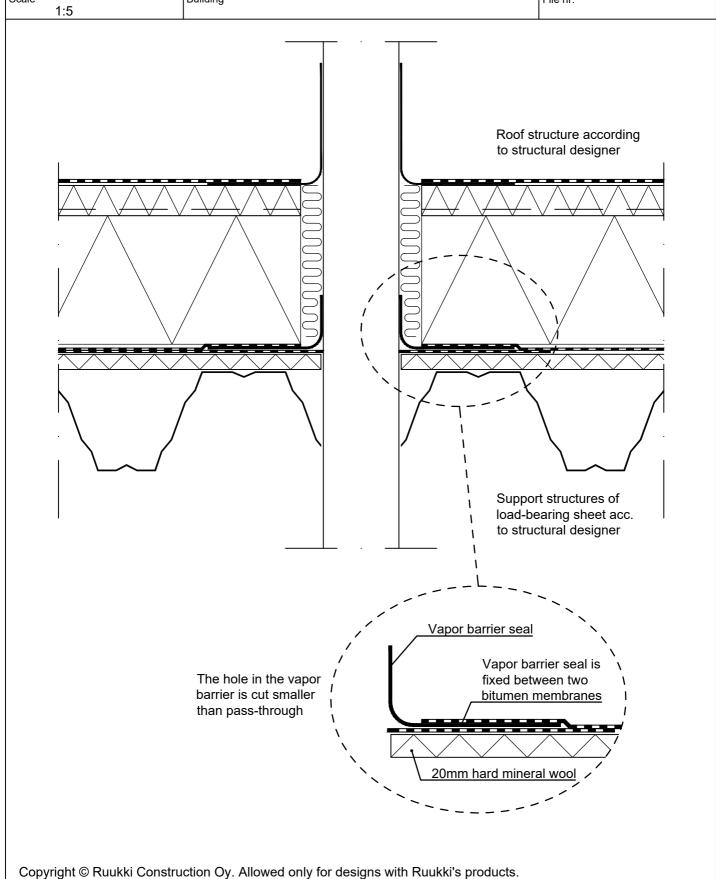
Date 15.06.2011	Rev. date 07.01.2022	Work nr.	Drawing nr. SP2E-PIR-ENERGY-H20-EN
Drawn by Ruukki	Rev.		
Scale	Building		File nr.





Sandwich panel SP2E PIR ENERGY Horizontal installation - Round pass-through Vapor barrier (bitumen) / Load-bearing sheet

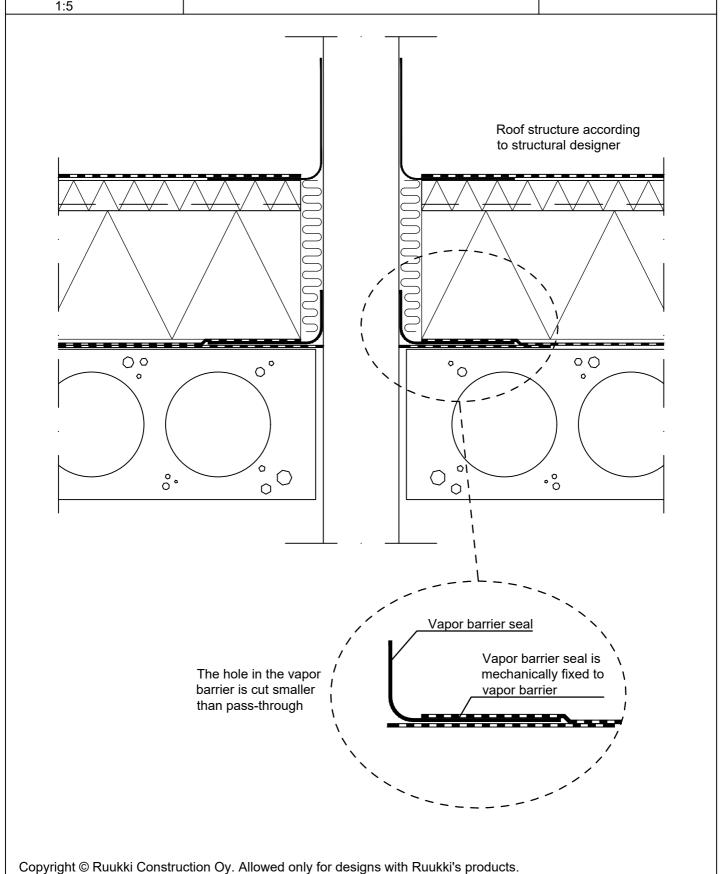
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15.06.2011 Drawn by	07.01.2022 Rev.	1	SP2E-PIR-ENERGY-H21-EN
Ruukki			
Scale	Building		File nr.





Sandwich panel SP2E PIR ENERGY Horizontal installation - Round pass-through Vapor barrier (bitumen) / Hollow core slab

Date	Rev. date	Work nr.	Drawing nr.
15.06.2011	07.01.2022		SP2E-PIR-ENERGY-H22-EN
Drawn by	Rev.		SFZE-FIR-ENERGI-HZZ-EN
Ruukki			
Scale	Building		File nr.
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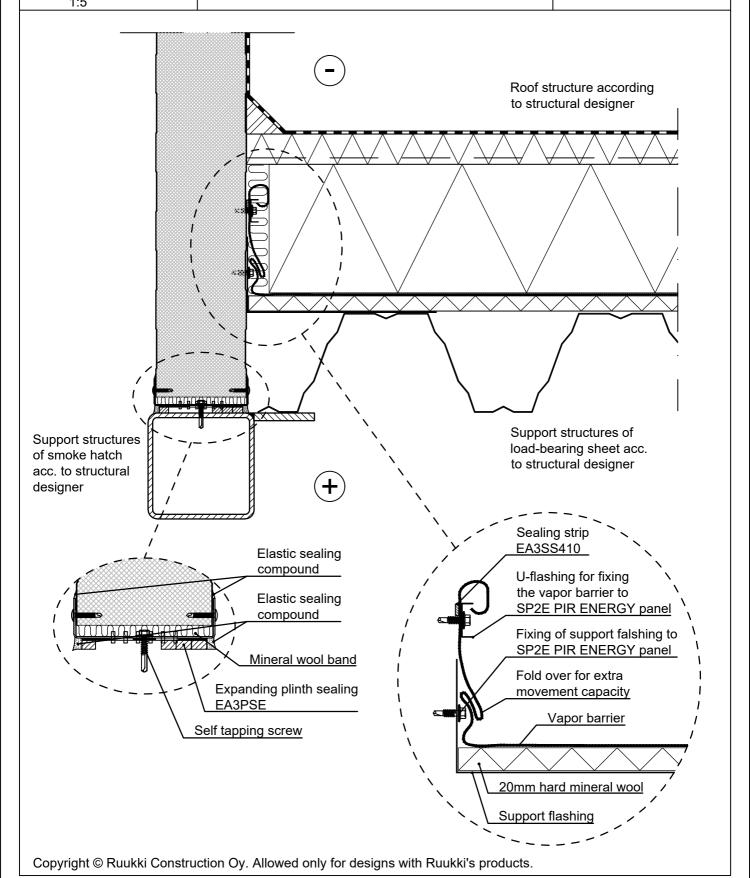


## **TUUKKI**

Contents of drawing

Sandwich panel SP2E PIR ENERGY
Horizontal installation - Smoke hatch
Vapor barrier (plastic) / Load-bearing sheet

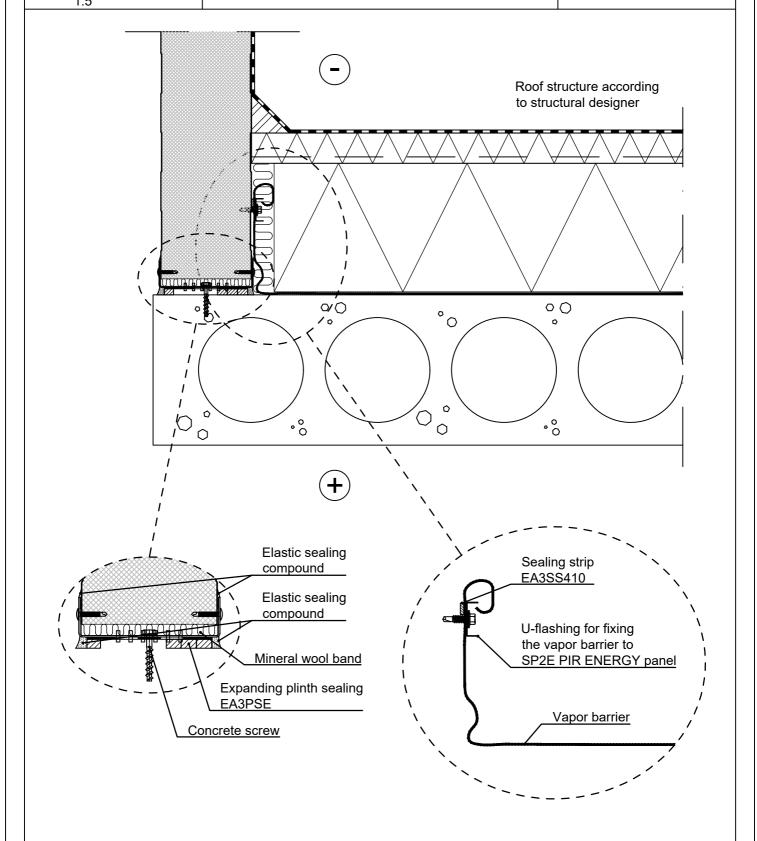
Date	Rev. date	Work nr.	Drawing nr.
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Sandwich panel SP2E PIR ENERGY Horizontal installation - Smoke hatch Vapor barrier (plastic) / Hollow core slab

Date	Rev. date	Work nr.	Drawing nr.
15.06.2011	07.01.2022		SDOE DID ENEDOV HOA EN
Drawn by	Rev.		SP2E-PIR-ENERGY-H24-EN
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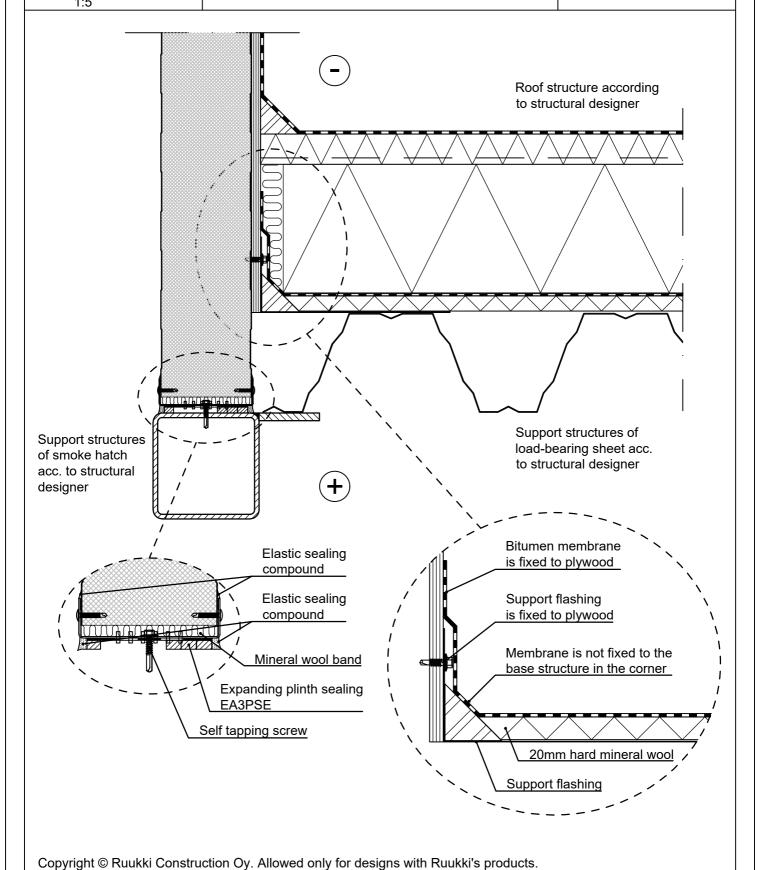


## **TUUKKI**

Contents of drawing

Sandwich panel SP2E PIR ENERGY
Horizontal installation - Smoke hatch
Vapor barrier (bitumen) / Load-bearing sheet

Date	Rev. date	Work nr.	Drawing nr.
15.06.2011	07.01.2022		SP2E-PIR-ENERGY-H25-EN
Drawn by	Rev.		SFZE-FIR-ENERGY-HZS-EN
Ruukki			
Scale	Building		File nr.
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Sandwich panel SP2E PIR ENERGY
Horizontal installation - Smoke hatch
Vapor barrier (bitumen) / Hollow core slab

Date	Rev. date	Work nr.	Drawing nr.
15.06.2011	07.01.2022		SP2E-PIR-ENERGY-H26-EN
Drawn by	Rev.		SPZE-PIR-ENERGY-HZO-EN
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Scale	Building		File nr.
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