<table>
<thead>
<tr>
<th>Drawing nr.</th>
<th>Contents of drawing</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA01-ENERGY-1E-EN</td>
<td>Plinth, horizontal installation</td>
</tr>
<tr>
<td>SPA01-ENERGY-2E-EN</td>
<td>Plinth, horizontal installation</td>
</tr>
<tr>
<td>SPA01-ENERGY-3E-EN</td>
<td>Plinth, horizontal installation</td>
</tr>
<tr>
<td>SPA01-ENERGY-4E-EN</td>
<td>Plinth, horizontal installation</td>
</tr>
<tr>
<td>SPA01-ENERGY-5E-EN</td>
<td>Plinth, horizontal installation</td>
</tr>
<tr>
<td>SPA01-ENERGY-6E-EN</td>
<td>Plinth, vertical- and diagonal installation</td>
</tr>
<tr>
<td>SPA01-ENERGY-7E-EN</td>
<td>Plinth, detail</td>
</tr>
<tr>
<td>SPA01-ENERGY-8E-EN</td>
<td>Plinth, detail</td>
</tr>
<tr>
<td>SPA01-ENERGY-9E-EN</td>
<td>Plinth, detail</td>
</tr>
<tr>
<td>SPA01-ENERGY-10E-EN</td>
<td>Plinth, detail</td>
</tr>
<tr>
<td>SPA01-ENERGY-11E-EN</td>
<td>Plinth, detail</td>
</tr>
<tr>
<td>SPA01-ENERGY-12E-EN</td>
<td>Plinth, detail</td>
</tr>
<tr>
<td>SPA02-ENERGY-1E-EN</td>
<td>Joint between panels, horizontal installation</td>
</tr>
<tr>
<td>SPA02-ENERGY-2E-EN</td>
<td>Joint between panels, vertical- and diagonal installation</td>
</tr>
<tr>
<td>SPA02-ENERGY-3E-EN</td>
<td>Joint between panels, horizontal, vertical- and diagonal inst.</td>
</tr>
<tr>
<td>SPA02-ENERGY-4E-EN</td>
<td>Joint between panels, horizontal, vertical- and diagonal inst.</td>
</tr>
<tr>
<td>SPA03-ENERGY-1E-EN</td>
<td>Vertical joint, horizontal inst., rectangle steel column</td>
</tr>
<tr>
<td>SPA03-ENERGY-2E-EN</td>
<td>Vertical joint, horizontal installation, I-steel column</td>
</tr>
<tr>
<td>SPA03-ENERGY-3E-EN</td>
<td>Vertical joint, horizontal inst., rectangle steel column</td>
</tr>
<tr>
<td>SPA03-ENERGY-4E-EN</td>
<td>Vertical joint, horizontal installation, concrete column</td>
</tr>
<tr>
<td>SPA03-ENERGY-5E-EN</td>
<td>Vertical joint, horizontal inst., laminated timber column</td>
</tr>
<tr>
<td>SPA03-ENERGY-6E-EN</td>
<td>Vertical joint, horizontal installation, vemo-fastening</td>
</tr>
<tr>
<td>SPA03-ENERGY-7E-EN</td>
<td>Vertical joint, horizontal installation, T-steel, parapet</td>
</tr>
<tr>
<td>SPA03-ENERGY-8E-EN</td>
<td>Vertical joint, horizontal inst., rectangle steel column</td>
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<tr>
<td>SPA04-ENERGY-1E-EN</td>
<td>External corner, horizontal inst., rectangle steel column</td>
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<td>SPA04-ENERGY-2E-EN</td>
<td>External corner, horizontal installation, I-steel column</td>
</tr>
<tr>
<td>SPA04-ENERGY-3E-EN</td>
<td>External corner, horizontal installation, concrete column</td>
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<tr>
<td>SPA04-ENERGY-4E-EN</td>
<td>External corner, horizontal inst., rectangle steel column</td>
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<tr>
<td>SPA04-ENERGY-5E-EN</td>
<td>External corner, horizontal inst., laminated timber column</td>
</tr>
<tr>
<td>SPA04-ENERGY-6E-EN</td>
<td>External corner, horizontal installation, concrete filled column</td>
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<tr>
<td>SPA04-ENERGY-7E-EN</td>
<td>External corner, horizontal installation, SPA corner panel</td>
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<tr>
<td>SPA04-ENERGY-8E-EN</td>
<td>External corner, horizontal installation, L-steel, parapet</td>
</tr>
<tr>
<td>SPA05-ENERGY-1E-EN</td>
<td>Internal corner, horizontal inst., rectangle steel column</td>
</tr>
<tr>
<td>SPA05-ENERGY-2E-EN</td>
<td>Internal corner, horizontal inst., rectangle steel column</td>
</tr>
<tr>
<td>SPA05-ENERGY-3E-EN</td>
<td>Internal corner, horizontal installation, L-steel, parapet</td>
</tr>
<tr>
<td>SPA06-ENERGY-1E-EN</td>
<td>Parapet, horizontal installation, side eaves</td>
</tr>
<tr>
<td>SPA06-ENERGY-2E-EN</td>
<td>Parapet, horizontal installation, end eaves</td>
</tr>
<tr>
<td>SPA06-ENERGY-3E-EN</td>
<td>Parapet, vertical- and diagonal installation, side eaves</td>
</tr>
<tr>
<td>SPA06-ENERGY-4E-EN</td>
<td>Parapet, vertical- and diagonal installation, end eaves</td>
</tr>
<tr>
<td>SPA06-ENERGY-5E-EN</td>
<td>Cantilever eaves, horizontal inst., side eaves, prof. sheet</td>
</tr>
</tbody>
</table>

**Sandwich panel SPA ENERGY**

**PRINCIPLE DETAIL DRAWINGS**

External walls (85 pcs)
 SPA06-ENERGY-6E-EN Cantilever eaves, horizontal inst., end eaves, prof. sheet
 SPA06-ENERGY-7E-EN Cantilever eaves, horizontal inst., side eaves, bitumen roof
 SPA06-ENERGY-8E-EN Cantilever eaves, horizontal inst., end eaves, bitumen roof
 SPA06-ENERGY-9E-EN Eaves, horizontal installation, side eaves, profiled sheet
 SPA06-ENERGY-10E-EN Eaves, horizontal installation, end eaves, profiled sheet
 SPA06-ENERGY-11E-EN Eaves, horizontal installation, side eaves, bitumen roof
 SPA06-ENERGY-12E-EN Eaves, horizontal installation, end eaves, bitumen roof
 SPA06-ENERGY-13E-EN Vapour barrier and insulation supp. flashing fastening
 SPA06-ENERGY-14E-EN Cantilever eaves / Vapor barrier, plastic membrane / Load-bearing sheet
 SPA06-ENERGY-15E-EN Cantilever eaves / Vapor barrier, plastic membrane / Hollow core slab
 SPA06-ENERGY-16E-EN Cantilever eaves / Vapor barrier, plastic membrane / Wood element
 SPA06-ENERGY-17E-EN Cantilever eaves / Vapor barrier, bitumen membrane / Load-bearing sheet
 SPA06-ENERGY-18E-EN Cantilever eaves / Vapor barrier, bitumen membrane / Hollow core slab
 SPA06-ENERGY-19E-EN Round pass-through / Vapor barrier, plastic membrane / Load-bearing sheet
 SPA06-ENERGY-20E-EN Round pass-through / Vapor barrier, plastic membrane / Hollow core slab
 SPA06-ENERGY-21E-EN Round pass-through / Vapor barrier, bitumen membrane / Hollow core slab
 SPA06-ENERGY-22E-EN Round pass-through / Vapor barrier, plastic membrane / Load-bearing sheet
 SPA06-ENERGY-23E-EN Smoke hatch / Vapor barrier, plastic membrane / Load-bearing sheet
 SPA06-ENERGY-24E-EN Smoke hatch / Vapor barrier, plastic membrane / Hollow core slab
 SPA06-ENERGY-25E-EN Smoke hatch / Vapor barrier, bitumen membrane / Load-bearing sheet
 SPA06-ENERGY-26E-EN Smoke hatch / Vapor barrier, bitumen membrane / Hollow core slab

 SPA07-ENERGY-1E-EN Uplifted roofing, horizontal installation

 SPA08-ENERGY-1E-EN Ruukki energy window, horizontal installation, small window
 SPA08-ENERGY-2E-EN Ruukki energy window, horizontal installation, small window
 SPA08-ENERGY-3E-EN Ruukki energywindow, horizontal installation, large window
 SPA08-ENERGY-4E-EN Ruukki energywindow, horizontal installation, large window
 SPA08-ENERGY-5E-EN Window, horizontal installation
 SPA08-ENERGY-6E-EN Window, horizontal installation

 SPA09-ENERGY-1E-EN Ruukki energydoor, horizontal installation, single door
 SPA09-ENERGY-2E-EN Ruukki energydoor, horizontal installation, single door
 SPA09-ENERGY-3E-EN Ruukki energydoor, horizontal installation, double door
 SPA09-ENERGY-4E-EN Ruukki energydoor, horizontal installation, double door
 SPA09-ENERGY-5E-EN Door, horizontal installation
 SPA09-ENERGY-6E-EN Door, horizontal installation
 SPA09-ENERGY-7E-EN Overhead door, horizontal installation
 SPA09-ENERGY-8E-EN Overhead door, horizontal installation

 SPA10-ENERGY-1E-EN Sandwich panel SPA150 ENERGY
 SPA10-ENERGY-2E-EN Sandwich panel SPA200 ENERGY
 SPA10-ENERGY-3E-EN Sandwich panel SPA230 ENERGY

**Sandwich panel SPA ENERGY**
**PRINCIPLE DETAIL DRAWINGS**
External walls (85 pcs)
<table>
<thead>
<tr>
<th>Drawing nr.</th>
<th>Contents of drawing</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA11-ENERGY-1E-EN</td>
<td>Rib R150 surface profiling</td>
</tr>
<tr>
<td>SPA11-ENERGY-2E-EN</td>
<td>Rib R200 surface profiling</td>
</tr>
<tr>
<td>SPA11-ENERGY-3E-EN</td>
<td>Rib R600 surface profiling</td>
</tr>
<tr>
<td>SPA11-ENERGY-4E-EN</td>
<td>Smooth F surface (no profiling)</td>
</tr>
<tr>
<td>SPA11-ENERGY-5E-EN</td>
<td>M15 (Micro) surface profiling</td>
</tr>
<tr>
<td>SPA11-ENERGY-6E-EN</td>
<td>L50 (Linear) surface profiling</td>
</tr>
</tbody>
</table>

Sandwich panel SPA ENERGY
PRINCIPLE DETAIL DRAWINGS
External walls (85 pcs)

Ruukki Construction Oy
Vimpelintie 661                          tel +358 2059 127
FI - 62900 ALAJÄRVI  fax +358 2059 27700
FINLAND                                    www.ruukki.com

Date  19.08.2013
Drawn by Ruukki  Checked
<table>
<thead>
<tr>
<th>Drawing nr.</th>
<th>Contents of drawing</th>
</tr>
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<tbody>
<tr>
<td>SPA11-ENERGY-1E-EN</td>
<td>Rib R150 surface profiling</td>
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<td>Rib R200 surface profiling</td>
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<tr>
<td>SPA11-ENERGY-3E-EN</td>
<td>Rib R600 surface profiling</td>
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<tr>
<td>SPA11-ENERGY-4E-EN</td>
<td>Smooth F surface (no profiling)</td>
</tr>
<tr>
<td>SPA11-ENERGY-5E-EN</td>
<td>M15 (Micro) surface profiling</td>
</tr>
<tr>
<td>SPA11-ENERGY-6E-EN</td>
<td>L50 (Linear) surface profiling</td>
</tr>
</tbody>
</table>

**Sandwich panel SPA ENERGY**
**PRINCIPLE DETAIL DRAWINGS**

External walls (85 pcs)
Elastic sealing strip, installed in the factory

SPA01-ENERGY-7E

≥ 40

Special care should be taken to ensure the smoothness of the top of plinth, tolerance ± 5 mm

- 001. Sandwich panel SPA ENERGY
- 100. /EA1U___/ Starter track
- 111. /EA1P3-___/ Cill flashing (installed simultaneously with elements)
- 131. /EA1JV1/ Vertical joint flashing
- 255. /S5R48038/ Spike-fastener, concrete c/c600
- 265. /S3H55042WA4B/ Fastener, wood c/c600
- 301. /EA3PSE/ Plinth sealing expanding (wider sealing on internal side)
- 312. /EAWS___/ Mineral wool band
- 341. Plywood, if necessary

☑ Ruukki's delivery

Copyright © Ruukki Construction Oy. Allowed only for designs with Ruukki's products.
001. Sandwich panel SPA ENERGY
100. /EA1U___/ Starter track
112. /EA1P1-___/ Cill flashing (can be installed after element installation)
134. /EA1JV10-11/ Vertical joint panel
149. /EA1SF1/ Joint panel starting fillet
231. Flashing fastener, washer with sealing
235. Joint panel fastener, stainless steel, washer with sealing
255. /S5R48038/ Spike-fastener, concrete c/c600
265. /S3H55042WA4B/ Fastener, wood c/c600 or
301. /EA3PSE/ Plinth sealing expanding (wider sealing on internal side)
312. /EAWS___/ Mineral wool band
321. /EA3SM310___/ Elastic sealant

Special care should be taken to ensure the smoothness of the top of plinth, tolerance ± 5 mm

Ruukki's delivery

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Special care should be taken to ensure the smoothness of the top of plinth, tolerance ± 5 mm.

- 001. Sandwich panel SPA ENERGY
- 100. /EA1U___/ Starter track
- 113. /EA1P4-___/ Cill flashing (can be installed after element installation)
- 114. /EA1PS1-___/ Support flashing (installed simultaneously with elements)
- 131. /EA1JV1/ Vertical joint flashing
- 231. Flashing fastener, washer with sealing
- 255. /S5R48038/ Spike-fastener, concrete c/c600
- 265. /S3H55042WA4B/ Fastener, wood c/c600
- 301. /EA3PSE/ Plinth sealing expanding (wider sealing on internal side)
- 312. /EAWS___/ Mineral wool band

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001. Sandwich panel SPA ENERGY
100. /EA1U___/ Starter track
111. /EA1P3-___/ Cill flashing (installed simultaneously with elements)
115. Support flashing, L200 k1000, according to project (installed simultaneously with elements)
133. /EA1JV9/ Vertical joint flashing
255. /S5R48038/ Spike-fastener, concrete c/c600
265. /S3H55042WA4B/ Fastener, wood c/c600
301. /EA3PSE/ Plinth sealing expanding (wider sealing on internal side)
312. /EAWS___/ Mineral wool band

Special care should be taken to ensure the smoothness of the top of plinth, tolerance ± 5 mm

- Ruukki's delivery

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Special care should be taken to ensure the smoothness of the top of plinth, tolerance ± 5 mm

- 001. Sandwich panel SPA ENERGY
- 100. /EA1W___/ Purlin
- 116. /EA1P5-___/ Cill flashing (can be installed after element installation)
- 131. /EA1JV1/ Vertical joint flashing
- 231. Flashing fastener, washer with sealing
- 234. Flat head flashing fastener
- 265. /S5R48038/ Spike-fastener, concrete c/c600
- 265. /S3H55042WA4B/ Fastener, wood c/c600
- 301. /EA3PSE/ Plinth sealing expanding (wider sealing on internal side)
- 302. /EA3SS410/ Sealing strip
- 312. /EAWS___/ Mineral wool band
- 321. /EA3SM310___/ Elastic sealant

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Special care should be taken to ensure the smoothness of the top of plinth, tolerance ± 5 mm

- 001. Sandwich panel SPA ENERGY
- 105. /EA1L7530ZN/ Support L-purlin, (t=3mm)
- 115. Support flashing, L200 k1000, according to project (installed simultaneously with elements)
- 116. /EA1P5-___/Cill flashing (can be installed after element installation)
- 117. Cover flashing, according to project (installed simultaneously with elements)
- 118. Cover flashing, according to project
- 131. /EA1JV1/ Vertical joint flashing
- 201. Self-drilling element screw, washer with sealing
during inst.
- 231. Flashing fastener, washer with sealing
during inst.
- 255. /S5R48038/ Spike-fastener, concrete c/c600
- 301. /EA3PSE/ Plinth sealing expanding
- 302. /EA3SS410/ Sealing strip
- 321. /EA3SM310___/ Elastic sealant
during inst.
- 326. /EA3SM310___/ Elastic sealant during inst.
to outer female groove full length of element and inner female groove 60 mm from panel end

Ruukki's delivery

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### Contents of drawing

**Sandwich panel SPA ENERGY, horizontal installation**

Plinth, detail

<table>
<thead>
<tr>
<th>Date</th>
<th>Rev. date</th>
<th>Work nr.</th>
<th>Drawing nr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.08.2015</td>
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<td>SPA01-ENERGY-7E-EN</td>
</tr>
</tbody>
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<th>Scale</th>
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<th>File nr.</th>
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<tbody>
<tr>
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<td>1:1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Elastic sealing strip, installed in the factory**

**Special care should be taken to ensure the smoothness of the top of plinth, tolerance ± 5 mm**

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Special care should be taken to ensure the smoothness of the top of plinth, tolerance ± 5 mm.
Elastic sealing strip, installed in the factory

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

Special care should be taken to ensure the smoothness of the top of plinth, tolerance ± 5 mm
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<thead>
<tr>
<th>Date</th>
<th>Rev. date</th>
<th>Work nr.</th>
<th>Drawing nr.</th>
</tr>
</thead>
<tbody>
<tr>
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<td>04.05.2017</td>
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<th>Building</th>
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<td></td>
<td>1:1</td>
<td>Building</td>
<td></td>
</tr>
</tbody>
</table>

Contents of drawing

Sandwich panel SPA ENERGY, horizontal installation
Plinth, detail

Special care should be taken to ensure the smoothness of the top of plinth, tolerance ± 5 mm

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

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

Elastic sealing strip, installed in the factory
Elastic sealant after installation

Special care should be taken to ensure the smoothness of the top of plinth, tolerance ± 5 mm
Elastic sealant after installation

Elastic sealant to female groove during installation

Special care should be taken to ensure the smoothness of the top of plinth, tolerance ± 5 mm
Elastic sealing strip is installed in the outer groove joint as a standard in the factory.

Elastic sealing strip is installed in the inner groove joint as a standard in the factory.

- 001
- 325
- 001
- 1200 ±2
- 1200 ±2

- 001. Sandwich panel SPA ENERGY
- 325. /EA3SM310___. Elastic sealant during installation to outer female groove to length equivalent to vertical joint flashing width

Ruukki's delivery

Copyright © Ruukki Construction Oy. Allowed only for designs with Ruukki's products.
Elastic sealing strip is installed in the outer groove joint as a standard in the factory

Elastic sealing strip is installed in the inner groove joint as a standard in the factory

001. Sandwich panel SPA ENERGY

326. /EA3SM310___/ Elastic sealant during installation to outer female groove in full length of element and inner female groove 60 mm from panel end

Ruukki's delivery

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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.
Inner joint between panels

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

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

Sandwich panel SPA ENERGY, horizontal inst.
Vertical joint, horizontal section
Rectangle hollow section column, option 1

Date 15.06.2011  Rev. date 06.09.2021  Work nr.  
Drawn by Ruukki  Rev.  
Scale 1:2  Building  

File nr. SPA03-ENERGY-1E-EN

- 001. Sandwich panel SPA ENERGY
- 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)

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Screw drilling tip can be cut off after element installation

Self-threading screw when material is thick (> 10-14 mm), requires pre-drilled holes. Optional way is to pre-drill the material enough to be able to continue with self-drilling screws.
001. Sandwich panel SPA ENERGY
134. /EA1JV10-11/ Vertical joint panel (h = 600 or 1200)
201. Self-drilling element screw, washer with sealing
235. Joint panel fastener, stainless steel,
302. /EAWS5657850/ Mineral wool band
307. /EA3JSN7525/ Joint sealing Nordic
to outer female groove in length equivalent to
vertical joint flashing width and to inner female
303. /EA3SS1210/ Sealing strip
groove from panel end to sealing
325. Elastic polyurethane foam
327. Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
Ruukki’s delivery

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001. Sandwich panel SPA ENERGY
135. /EA1JV4/ Vertical joint flashing
148. /EA1VCO/ Vertical cover flashing
251. Spike panel fastener, washer with sealing
Ruukki's delivery

312. /EAWS5657850/ Mineral wool band
325. /EA3SM310___/ Elastic sealant during inst. groove from panel end to sealing
303. /EA3SS1210/ Sealing strip

307. /EA3JSN7525/ Joint sealing Nordic
312. /EAWS5657850/ Mineral wool band
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. Elastic polyurethane foam

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- Ruukki's delivery

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

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

- 001. Sandwich panel SPA ENERGY
- 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
- 303. /EA3SS1210/ Sealing strip
- 307. /EA3JSN7525/ Joint sealing Nordic
- 312. /EAWS5657850/ Mineral wool band
- 325. /EA3SM310___/ Elastic sealant during inst.
- 327. Elastic polyurethane foam

Ruukki's delivery

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001. Sandwich panel SPA ENERGY
139. /EA1JV3/ Vertical joint flashing
201. Self-drilling element screw, washer with sealing
302. /EA3SS410/ Sealing strip
312. /EAWS5657850/ Mineral wool band
325. /EA3SM310___/ Elastic sealant during inst.
groove from panel end to sealing
303. /EA3SS1210/ Sealing strip
327. Elastic polyurethane foam

Screw drilling tip can be cut off after element installation

001. Sandwich panel SPA ENERGY
139. /EA1JV3/ Vertical joint flashing
201. Self-drilling element screw, washer with sealing
231. Flashing fastener, washer with sealing
302. /EA3SS410/ Sealing strip
307. /EA3JSN7525/ Joint sealing Nordic
to outer female groove in length equivalent to
vertical joint flashing width and to inner female
groove from panel end to sealing
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
303. /EA3SS1210/ Sealing strip
307. /EA3JSN7525/ Joint sealing Nordic
312. /EAWS5657850/ Mineral wool band
325. /EA3SM310___/ Elastic sealant during inst.

Ruuikki's delivery

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001. Sandwich panel SPA ENERGY
147. /EA1JVM/ Vertical joint flashing module
201. Self-drilling element screw, washer with sealing
233. /S1T48020L02A0RR___/ Flashing fastener
302. /EA3SS410/ Sealing strip
303. /EA3SS510/ Sealing band EPDM for flashing
307. /EAWS5657850/ Mineral wool band
312. /EA3SM310___/ Elastic sealant during inst.

≥ 30
≥ 50

Ruukki's delivery

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001. Sandwich panel SPA ENERGY
141. /EA1EC1-3/ External corner flashing,
recommended element thickness ≤ 150 mm
201. Self-drilling element screw, washer with sealing
231. Flashing fastener, washer with sealing
301. /EA3SM310___/ Elastic sealant during inst.
302. /EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
308. /EA3JSCN30025/ Joint sealing corner Nordic
to outer female groove in length equivalent to
vertical joint flashing width and to inner female
groove from panel end to sealing
325. /EA3SM310___/ Elastic sealant during inst.
327. Elastic polyurethane foam

- Facing sheet cutting at site
  by length b = element thickness

Ruukki’s delivery

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Facing sheet cutting at site by length \( b = \text{element thickness} \)

001. Sandwich panel SPA ENERGY
142. /EA1EC11-14/ External corner panel
235. Joint panel fastener, stainless steel, washer with sealing
231. Flashing fastener, washer with sealing
001. Sandwich panel SPA ENERGY
146. /EA1EC9-___/ External corner flashing
235. Joint panel fastener, stainless steel, washer with sealing
231. Flashing fastener, washer with sealing

- Ruukki's delivery

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Facing sheet cutting at site by length \( b = \text{element thickness} \)

321, sealant under the flashing during installation

- \( b \geq 30 \)

Ruukki's delivery

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- 001. Sandwich panel SPA ENERGY
- 135. /EA1JV4/ Vertical joint flashing
- 145. /EA1C10-___/ Vertical joint flashing, t = 1 mm / 1.2 mm (limited range of colours)
- 148. /EA1VCO/ Vertical cover flashing
- 231. Self-drilling element screw to wood, washer with sealing
- 261. Flashing fastener, washer with sealing
- 303. /EA3SS1210/ Sealing strip
- 312. /EAWS5657850/ Mineral wool band
- 321. /EA3SM310___/ Elastic sealant during installation
- 325. Elastic polyurethane foam

Facing sheet cutting at site by length b = element thickness
001, sealant under the flashing during installation

≥ 30

Ruukki's delivery

Copyright © Ruukki Construction Oy. Allowed only for designs with Ruukki's products.
Concrete casting is made in the factory or for a construction site related reason made at site before the element installation.

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

- 001. Sandwich panel SPA ENERGY
- 121. /EA6FP_/ Fastening plate
- 138. /EA1JV2/ Vertical joint flashing
- 145. /EA1C10-___/ External corner flashing, t = 1 mm / 1.2 mm (limited range of colours)
- 221. Internal threaded socket and hex bolt
- 231. Flashing fastener, washer with sealing
- 302. /EA3SS410/ Sealing strip
- 303. /EAWS5657850/ Mineral wool band
- 321. Flashing fastener, washer with sealing
- 325. /EA3SM310___/ Elastic sealant during installation
to outer female groove in length equivalent to vertical joint flashing width and to inner female groove from panel end to sealing
- 327. Elastic polyurethane foam

Ruukki's delivery
001. Sandwich panel SPA ENERGY
002. Sandwich panel SPA ENERGY corner element,
(SPA150 - 200 external dimension 300 - 2400 mm, SPA230 external dimension 350 - 2400 mm)
140. /EA1JVB4/ Vertical bottom flashing invisible
144. /EA1JVI/ Vertical joint flashing invisible
212. Self-drilling element screw, without washer
215. /EA2W40-910S/ Countersink washer
234. /S1E42013GE/ Flat head flashing fastener
302. /EA3SS410/ Sealing strip
/EA3SSS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)
303. /EA3SS1210/ Sealing strip
306. /EA3JSN15025/ Joint sealing Nordic
312. /EAWS5657850/ Mineral wool band
325. /EA3SM310/ Elastic sealant during installation
to outer female groove in length equivalent to vertical joint flashing width and to inner female
groove from panel end to sealing
327. Elastic polyurethane foam

Ruukki's delivery

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001. Sandwich panel SPA ENERGY
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
303. /EA3SS1210/ Sealing strip
312. /EAWS5657850/ Mineral wool band
325. /EA3SM310___/ Elastic sealant during installation
to outer female groove in length equivalent to vertical joint flashing width and to inner female
groove from panel end to sealing
327. Elastic polyurethane foam

Secondary steel supports for elements according to structural designer.

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

- Facing sheet cutting at site by length b = element thickness
- Screw drilling tip can be cut off after element installation
001. Sandwich panel SPA ENERGY
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
303. /EA3SS1210/ Sealing strip
307. /EA3JSN7525/ Joint sealing Nordic
312. /EAWS5657850/ Mineral wool band
325. /EA3SM310___/ Elastic sealant during installation
to outer female groove in length equivalent to vertical joint flashing width and to inner female
groove from panel end to sealing
242. Fastener screw, without washer
302. /EA3SS410/ Sealing strip

Screw drilling tip can be cut off after installation

Installed first

Ruukki's delivery

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001. Sandwich panel SPA ENERGY
146. /EA1EC9-–/ External corner flashing
148. /EA1VCO/ Vertical cover flashing
201. Self-drilling element screw, washer with sealing
231. Flashing fastener, washer with sealing
234. Flat head flashing fastener
303. /EA3SS1210/ Sealing strip
307. /EA3JSN7525/ Joint sealing Nordic
312. /EAWS5657850/ Mineral wool band
325. /EA3SM310-–/ Elastic sealant during installation
to outer female groove in length equivalent to vertical joint flashing width and to inner female
groove from panel end to sealing
327. Elastic polyurethane foam

Remember that under internal corner flashing EA1IC9 butt joints must be butt strap EA1CJP2
001. Sandwich panel SPA ENERGY
153. /EA1IC8/ Internal corner flashing
154. /EA1IC10/12 (left)/ Internal corner panel
155. /EA1IC11/13 (right)/ Internal corner panel
201. Self-drilling element screw, washer with sealing
231. Flashing fastener, washer with sealing
235. Joint panel fastener, stainless steel, washer with sealing
303. /EA3SS1210/ Sealing strip
307. /EA3JSN7525/ Joint sealing Nordic
312. /EAWS5657850/ Mineral wool band
325. /EA3SM310___/ Elastic sealant during installation
to outer female groove in length equivalent to vertical joint flashing width and to inner female
groove from panel end to sealing
327. Elastic polyurethane foam

Ruukki's delivery

Copyright © Ruukki Construction Oy. Allowed only for designs with Ruukki's products.
Sandwich panel SPA ENERGY, horizontal inst.
Parapet, side eaves
Bitumen roofing felt, vertical section

- Insulation thickness is dimensioned according to project.
- Supports and fastening of profiled sheet according to structural designer.
- Secondary steel supports (t-steel) for the element according to structural designer.
- Vapour barrier and insulation support fastening, see SPA06-ENERGY-13E

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

- Reverse dip is made of Leca-gravel, Siporex chips or wool sheets cut to form

- Horizontal support studwork
- Plywood
- Vertical support studwork
- T-steel
- Waterproofing is not fastened to structures below L~400 mm

- 001. Sandwich panel SPA ENERGY
- 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
- 232. Flashing fastener, without washer
- 265. Fastener screw to wood, washer with sealing
- 311. /EAWS30565/_ Mineral wool
- 171. Insulation support flashing, t = 0.6 mm, according to project

- Ruukki's delivery

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Sandwich panel SPA ENERGY, horizontal inst.
Parapet, end eaves
Bitumen roofing felt, vertical section

Insulation thickness is dimensioned according to project.
Supports and fastening of profiled sheet according to structural designer.
Secondary steel supports (t-steel) for the element according to structural designer.
Vapour barrier and insulation support fastening, see SPA06-ENERGY-13E

- 001. Sandwich panel SPA ENERGY
- 100. /EA1EP___/ Purlin
- 131. /EA1JY1/ Vertical joint flashing
- 163. Storm flashing, t = 0.6 mm, according to project
- 161. Eave flashing, t = 0.6 mm, according to project
- 232. Flashing fastener, without washer
- 265. Fastener screw to wood, washer with sealing
- 311. /EAWS30565/ Mineral wool

Ruuksi's delivery

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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-ENERGY-13E

Reverse dip is made of Leca-gravel, Siporex chips or wool sheets cut to form.

001. Sandwich panel SPA ENERGY
100. /EA1EP___/ Purlin
103. Flashing for fastening / insulation support flashing, t=3 mm, according to project
161. Eave flashing, t = 0.6 mm, according to project
162. Cover flashing, t = 0.6 mm, according to project
163. Storm flashing, t = 0.6 mm, according to project
179. Cover flashing, t = 0.6 mm, according to project
201. Self-drilling element screw, washer with sealing
231. Flashing fastener, washer with sealing
232. Flashing fastener, without washer
242. Fastener screw, without washer
265. Fastener screw to wood, washer with sealing
302. /EA3SS410/ Sealing strip
311. /EAWS30565/ Mineral wool
326. /EA3SM310___/ Elastic sealant during inst.

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

- 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-ENERGY-13E
- Waterproofing is not fastened to structures below L~400 mm
- Ventilation grooves

001. Sandwich panel SPA ENERGY
100. /EA1EP___/ Purlin
104. Flashing for fastening / insulation support flashing, t=3 mm, according to project
161. Eave flashing, t = 0.6 mm, according to project
163. Storm flashing, t = 0.6 mm, according to project
179. Cover flashing, t = 0.6 mm, according to project
201. Self-drilling element screw, washer with sealing
231. Flashing fastener, washer with sealing
232. Flashing fastener, without washer
242. Fastener screw, without washer
265. Fastener screw to wood, washer with sealing
302. /EA3SS410/ Sealing strip
311. /EAWS30565/ Mineral wool
326. /EA3SM310___/ Elastic sealant during inst. to outer male groove full length of element and inner female groove 60 mm in length of element

Ruukki’s delivery

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001. Sandwich panel SPA ENERGY
101. Eave purlin, $t = 1.2$ mm, according to project
125. /EA1HP1/ Ventilated hat purlin
131. /EA1JV1/ Vertical joint flashing
164. Storm flashing, $t = 0.6$ mm, according to project
165. Eave flashing, $t = 0.6$ mm, according to project
171. Insulation support flashing, $t = 0.6$ mm, according to project
231. Flashing fastener, washer with sealing
232. Flashing fastener, without washer
241. Fastener screw, washer with sealing
311. /EAWS30565/ Mineral wool
312. /EAWS___/ Mineral wool band

Ruukki's delivery

Insulation thickness is dimensioned according to project.

Supports and fastening of profiled sheet according to structural designer.

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

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

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Sandwich panel SPA ENERGY, horizontal inst.
Cantilever eaves, end eaves
Profiled sheet roof deck, vertical section

- Load bearing profiled sheet sealed with a flashing on both sides
- Sealing band, recommended

- Insulation thickness is dimensioned according to project.
- Supports and fastening of profiled sheet according to structural designer.
- Element is cut at the point where it intersects with the steel structure. Vapour barrier is taped around the steel.
- Vapour barrier and insulation support fastening, see SPA06-ENERGY-13E

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Sandwich panel SPA ENERGY, horizontal inst.
Cantilever eaves, side eaves
Bitumen roofing felt, vertical section

Insulation thickness is dimensioned according to project.

Supports and fastening of profiled sheet according to structural designer.

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

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

001. Sandwich panel SPA ENERGY
100. /EA1D___/ Purlin
131. /EA1JV1/ Vertical joint flashing
167. Eave flashing, t = 0.6 mm, according to project
171. Insulation support flashing, t = 0.6 mm, according to project
232. Flashing fastener, without washer
311. /EAWS30565/ Mineral wool
312. /EAWS___/ Mineral wool band

Ruuksi's delivery

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Sandwich panel SPA ENERGY, horizontal inst.
Cantilever eaves, end eaves
Bitumen roofing felt, vertical section

- 001. Sandwich panel SPA ENERGY
- 100. /EA1D_/ Purlin
- 131. /EA1JV1/ Vertical joint flashing
- 168. Eave flashing, t = 0.6 mm, according to project
- 172. Insulation support flashing, t = 0.6 mm
- 232. Flashing fastener, without washer
- 265. Fastener screw to wood, washer with sealing
- 311. /EAWS30565/ Mineral wool
- 312. /EAWS__/ Mineral wool band

Ruuikki's delivery

Insulation thickness is dimensioned according to project.

Supports and fastening of profiled sheet according to structural designer.

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

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

Copyright © Ruukki Construction Oy. Allowed only for designs with Ruukki's products.
Insulation thickness is dimensioned according to project.

Supports and fastening of profiled sheet according to structural designer.

Gutters and its brackets designed according to project.

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

- 001. Sandwich panel SPA ENERGY
- 100. /EA1D__/ Purlin
- 125. /EA1HP1/ Ventilated hat purlin
- 131. /EA1JV1/ Vertical joint flashing
- 172. Insulation support flashing, t = 0.6 mm
- 177. Eave flashing, t = 0.6 mm, according to project
- 205. Self-drilling element screw / fastener screw for roof
- 231. Flashing fastener, washer with sealing
- 232. Flashing fastener, without washer
- 311. /EAWS30565/ Mineral wool
- 312. /EAWS__/ Mineral wool band

☑ Ruukki’s delivery

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Insulation thickness is dimensioned according to project.

Supports and fastening of profiled sheet according to structural designer.

Gutters and it's brackets designed according to project.

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

- 001. Sandwich panel SPA ENERGY
- 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

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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-ENERGY-13E

- 001. Sandwich panel SPA ENERGY
- 100. /EA1D___/ Purlin
- 131. /EA1JV1/ Vertical joint flashing
- 172. Insulation support flashing, t = 0.6 mm
- 178. Eave flashing, t = 0.6 mm, according to project
- 205. Self-drilling element screw / fastener screw for roof
- 231. Flashing fastener, washer with sealing
- 232. Flashing fastener, without washer
- 265. Fastener screw to wood, washer with sealing
- 311. /EAWS30565/ Mineral wool
- 312. /EAWS___/ Mineral wool band

Ruukki’s delivery

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

- Ruukki's delivery

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**Contents of drawing**

**Sandwich panel SPA ENERGY**  
Additional air tightness details, Cantilever eaves  
Plastic membrane, Load-bearing sheet

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<th>Drawing nr.</th>
</tr>
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**Drawn by**: Ruukki  
**Scale**: 1:5

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**Fixing of support flashing to SPA ENERGY panel**

- **Sealing strip** EA3SS410
- **U-flashing for fixing the vapor barrier to SPA ENERGY panel**
- **Vapour barrier movable joint**
- **Vapor barrier**
- **20mm hard mineral wool**
- **Support flashing**

---

**Support structures of load-bearing sheet acc. to structural designer**

**Roof structure according to structural designer**
Contents of drawing

Sandwich panel SPA ENERGY
Additional air tightness details, Cantilever eaves
Plastic membrane, Hollow core slab

Roof structure according to structural designer

Sealing strip EA3SS410

U-flashing for fixing the vapor barrier to SPA ENERGY panel

Vapor barrier

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Contents of drawing

Sandwich panel SPA ENERGY
Additional air tightness details, Cantilever eaves
Plastic membrane, Wood element

Sealing strip EA3SS410
U-flashing for fixing the vapor barrier to SPA ENERGY panel
Vapor barrier strip is fixed to SPA ENERGY panel before installing roof element
Vapor barrier strips are taped together and packed between roof element and external wall
Vapor barrier strip is fixed to roof element before installing element

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Sandwich panel SPA ENERGY
Additional air tightness details, Cantilever eaves
Bitumen membrane, Load-bearing sheet

- Roof structure according to structural designer
- Support structures of load-bearing sheet acc. to structural designer
- Support flashing is fixed to plywood
- Bitumen membrane is fixed to plywood
- Membrane is not fixed to the base structure in the corner
- Support flashing
- 20mm hard mineral wool

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### Contents of drawing

**Sandwich panel SPA ENERGY**

- Additional air tightness details, Cantilever eaves
- Bitumen membrane, Hollow core slab

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**Roof structure according to structural designer**

- Bitumen membrane is fixed to plywood
- Membrane is not fixed to the base structure in the corner
Contents of drawing

Sandwich panel SPA ENERGY, Additional air tightness details, Round pass-through
Plastic membrane, Load-bearing sheet

Hole in the vapor barrier is cut smaller than pass-through

Vapor barrier seal is fixed mechanically to vapor barrier

20mm hard mineral wool

Support structures of load-bearing sheet acc. to structural designer

Roof structure according to structural designer
Hole in the vapor barrier is cut smaller than pass-through

Vapor barrier seal is fixed mechanically to vapor barrier

Vapor barrier seal

Roof structure according to structural designer

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Sandwich panel SPA ENERGY, Additional air tightness details, Round pass-through Bitumen membrane, Load-bearing sheet

Support structures of load-bearing sheet acc. to structural designer

Vapor barrier seal

Vapor barrier seal is fixed between two bitumen membranes

20mm hard mineral wool

Hole in the vapor barrier is cut smaller than pass-through

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Sandwich panel SPA ENERGY, Additional air tightness details, Round pass-through Bitumen membrane, Hollow core slab

Roof structure according to structural designer

Hole in the vapor barrier is cut smaller than pass-through

Vapor barrier seal is fixed between two bitumen membranes
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Sandwich panel SPA ENERGY
Additional air tightness details, Smoke hatch
Plastic membrane, Hollow core slab

Sealing strip EA3SS410

U-flashing for fixing the vapor barrier to SPA ENERGY panel

Vapor barrier

Roof structure according to structural designer

Elastic sealing compound

Expanding plinth sealing

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Contents of drawing

Sandwich panel SPA ENERGY
Additional air tightness details, Smoke hatch
Bitumen membrane, Load-bearing sheet

Support structures of load-bearing sheet acc. to structural designer

Support flashing is fixed to plywood

20mm hard mineral wool

Bitumen membrane is fixed to plywood

Membrane is not fixed to the base structure in the corner

Support structures of smoke hatch acc. to structural designer

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Contents of drawing
Sandwich panel SPA ENERGY
Additional air tightness details, Smoke hatch
Bitumen membrane, Hollow core slab

Date 10.05.2012  Rev. date 16.12.2021  Work nr.  
Drawn by Ruukki  Rev.  
Scale 1:5  Building  
Drawing nr. SPA06-ENERGY-26E-EN  

Bitumen membrane is fixed to plywood
Membrane is not fixed to the base structure in the corner
Roof structure according to structural designer

Elastic sealing compound
Expanding plinth sealing

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

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-ENERGY-13E

- 001. Sandwich panel SPA ENERGY
- 171. Insulation support flashing, t = 0.6 mm, according to project
- 195. Drip flashing, t = 0.6 mm, according to project
- 196. Support flashing, t = 0.6 mm, according to project
- 197. Cover flashing, t = 0.6 mm, according to project
- 231. Flashing fastener, washer with sealing
- 265. Fastener screw to wood, washer with sealing
- 302. /EA3SS410/ Sealing strip
- 302. /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)
- 311. /EAWS30565/ Mineral wool
- 321. /EA3SM310/ Elastic sealant

Waterproofing is not fastened to structures below L~400 mm

Ruuksi's delivery

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

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

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

- 001. Sandwich panel SPA ENERGY
- 181. Drip flashing, t = 0.6 mm, according to project
- 231. Flashing fastener, washer with sealing
- 300. /EA3SWE54318/ Expandable sealing band (plastic tape facing inside)
- 321. /EA3SM310___/ Elastic sealant
- 323. Elastic sealant
- 300. /EA3SWE54318/ Expandable sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)
- 313. Mineral wool band (in system window delivery)

Ruukki's delivery

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

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

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

- 001. Sandwich panel SPA ENERGY
- 300. /EA3SWE54318/ Expandable sealing band (plastic tape facing inside)
- 313. Mineral wool band (in system window delivery)
- 323. Elastic sealant
- 325. /EA3SM310___/ Elastic sealant during installation to outer and inner female grooves

Ruuikki's delivery

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

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

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

Supporting structures according to structural designer.

- Ruukki® delivery

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

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

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

Supporting structures according to structural designer.

- 001. Sandwich panel SPA ENERGY
- 185. Cover flashing, t = 0.6 mm, according to project
- 201. Self-drilling element screw, washer with sealing
- 231. Flashing fastener, washer with sealing
- 300. /EA3SWE54318/ Expandable sealing band (plastic tape facing inside)
- 302. /EA3SS410/ Sealing strip
- 303. /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)
- 303. /EA3SS1210/ Sealing strip
- 313. Mineral wool band (in system window delivery)
- 323. Elastic sealant
- 325. /EA3SM310___/ Elastic sealant during inst. to outer and inner female grooves

Ruukki’s delivery

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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 (SPA02-ENERGY-1E).

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

- [ ] 001. Sandwich panel SPA ENERGY
- [ ] 100. /EA1W___/ Window purlin
- [ ] 181. Drip flashing, t = 0.6 mm, according to project
- [ ] 186. Support- / cover flashing, t = 0.6 mm, acc. to project
- [ ] 187. External window sill, t = 0.6 mm, acc. to project
- [ ] 231. Flashing fastener, washer with sealing
- [ ] 234. Flat head flashing fastener
- [ ] 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)
- [ ] 312. /EAWS5657850/ Mineral wool band
- [ ] 321. /EA3SM310___/ Elastic sealant
- [ ] 328. Elastic sealant
- [ ] 332. PU foam

Ruukki's delivery

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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 (SPA02-ENERGY-1E).

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

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Contents of drawing

Sandwich panel SPA ENERGY, horizontal inst.
Ruukki energy door, vertical section
Single door

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

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

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

- 001. Sandwich panel SPA ENERGY
- 182. Drip flashing, t = 0.6 mm, according to project
- 231. Flashing fastener, washer with sealing
- 300. /EA3SWE54318/ Expandable sealing band (plastic tape facing inside)
- 302. /EA3SS410/ Sealing strip
- 313. Mineral wool band (in system door delivery)
- 321. /EA3SM310___/ Elastic sealant
- 323. Elastic sealant

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SPA09-ENERGY-1E-EN
Note! Openings must be taken into account in dimensioning of elements.

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

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

- 325
- 323
- 313
- 001
- 323
- 325
- 300

- 300. /EA3SWE54318/ Expandable sealing band (plastic tape facing inside)
- 313. Mineral wool band (in system door delivery)
- 323. Elastic sealant
- 325. /EA3SM310___/ Elastic sealant during installation to outer and inner female grooves

☑ Ruukki's delivery

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

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

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

Supporting structures according to structural designer.

- 001. Sandwich panel SPA ENERGY
- 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
- 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
- 313. Mineral wool band (in system door delivery)
- 321. /EA3SM310___/ Elastic sealant
- 323. Elastic sealant

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

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

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

Supporting structures according to structural designer.

- 001. Sandwich panel SPA ENERGY
- 185. Cover flashing, t = 0.6 mm, according to project
- 201. Self-drilling element screw, washer with sealing
- 231. Flashing fastener, washer with sealing
- 300. /EA3SWE54318/ Expandable sealing band (plastic tape facing inside)
- 313. Mineral wool band (in system door delivery)
- 323. Elastic sealant
- 325. /EA3SM310___/ Elastic sealant during inst. to outer and inner female grooves

Ruukki's delivery

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

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

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

- 001. Sandwich panel SPA ENERGY
- 100. EA1D___/ Door frame stud
- 181. Drip flashing, t = 0.6 mm, acc. to project
- 189. Cover flashing, t = 0.6 mm, acc. to project
- 191. Cover flashing, t = 0.6 mm, acc. to project
- 231. Flashing fastener, washer with sealing
- 232. Flashing fastener, without washer
- 234. Flat head flashing fastener
- 300. /EA3SWE54318/ Expandable sealing band (plastic tape facing inside)
- 302. /EA3SWE54318/ Sealing strip
- 302. /EA3SS410/ Sealing strip EPDM for flashing
  (for demanding climate conditions e.g. coastal areas)
- 310. /EA3SS510/ Mineral- / stonewool
- 312. /EAWS___/ Mineral wool band
- 321. /EA3SM310___/ Elastic sealant

Ruukki's delivery

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

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

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

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

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

Supporting structures according to structural designer.

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

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

Supporting structures according to structural designer.

- 001. Sandwich panel SPA ENERGY
- 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 band for flashing
- 330. PU insulation
- 331. EPDM sealing
- 332. L-profile
- 342. L-profile
- 303. /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)
- 325. /EA3SM310___/ Elastic sealant during inst. to outer and inner female grooves

Ruukki’s delivery

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Contents of drawing

Sandwich panel SPA150 ENERGY

Date 20.08.2015  Rev. date

Drawn by Ruukki  Rev.

Scale 1:10  Building

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Sandwich panel SPA200 ENERGY

Cover width = 1200 ±2

198 ±2
Sandwich panel SPA230 ENERGY

Cover width = 1200 ±2

232 ±2
Contents of drawing

Sandwich panel SPA
Rib R150 surface profiling

<table>
<thead>
<tr>
<th>Date</th>
<th>Rev. date</th>
<th>Work nr.</th>
<th>Drawing nr.</th>
</tr>
</thead>
<tbody>
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<td></td>
<td></td>
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Drawn by Ruukki

Scale 1:10

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<table>
<thead>
<tr>
<th>Contents of drawing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandwich panel SPA</td>
</tr>
<tr>
<td>M15 (Micro) surface profiling</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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<th>Work nr.</th>
<th>Drawing nr.</th>
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