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<tr>
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<td>External corner, horizontal inst., rectangle steel column</td>
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<td>External corner, horizontal installation, l-steel column</td>
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<td>SPA04-3E-EN</td>
<td>External corner, horizontal installation, concrete column</td>
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<td>External corner, horizontal inst., rectangle steel column</td>
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<td>SPA04-5E-EN</td>
<td>External corner, horizontal inst., laminated timber column</td>
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<td>External corner, horizontal installation, concrete filled column</td>
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<td>SPA04-8E-EN</td>
<td>External corner, horizontal installation, L-steel, parapet</td>
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<td>SPA06-2E-EN</td>
<td>Parapet, horizontal installation, end eaves</td>
</tr>
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<td>Parapet, vertical- and diagonal installation, side eaves</td>
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<tr>
<td>SPA06-4E-EN</td>
<td>Parapet, vertical- and diagonal installation, end eaves</td>
</tr>
<tr>
<td>SPA06-5E-EN</td>
<td>Cantilever eaves, horizontal inst., side eaves, prof. sheet</td>
</tr>
<tr>
<td>SPA06-6E-EN</td>
<td>Cantilever eaves, horizontal inst., end eaves, prof. sheet</td>
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<td>Scale</td>
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Sandwich panel SPA
BASE DETAIL DRAWINGS
External walls (75 pcs)

Ruukki
Ruukki Construction Oy
Vimpelintie 661
FI - 62900 ALAJÄRVI
FINLAND
www.ruukki.com

date 22.01.2010

drawn by Ruukki
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<td>Cantilever eaves, horizontal inst., side eaves, bitumen roof</td>
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<tr>
<td>SPA06-8E-EN</td>
<td>Cantilever eaves, horizontal inst., end eaves, bitumen roof</td>
</tr>
<tr>
<td>SPA06-9E-EN</td>
<td>Eaves, horizontal installation, side eaves, profiled sheet</td>
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<tr>
<td>SPA06-10E-EN</td>
<td>Eaves, horizontal installation, end eaves, profiled sheet</td>
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<td>Eaves, horizontal installation, side eaves, bitumen roof</td>
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<td>SPA06-12E-EN</td>
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<td>SPA06-13E-EN</td>
<td>Vapour barrier and insulation supp. flashing fastening</td>
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<td>SPA07-1E-EN</td>
<td>Uplifted roofing, horizontal installation</td>
</tr>
<tr>
<td>SPA08-1E-EN</td>
<td>System window, horizontal installation, small window</td>
</tr>
<tr>
<td>SPA08-2E-EN</td>
<td>System window, horizontal installation, small window</td>
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<tr>
<td>SPA08-3E-EN</td>
<td>System window, horizontal installation, large window</td>
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<tr>
<td>SPA08-4E-EN</td>
<td>System window, horizontal installation, large window</td>
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<tr>
<td>SPA08-5E-EN</td>
<td>Window, horizontal installation</td>
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<tr>
<td>SPA08-6E-EN</td>
<td>Window, horizontal installation</td>
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<td>System door, horizontal installation, single door</td>
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<td>System door, horizontal installation, single door</td>
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<td>SPA11-5E-EN</td>
<td>M15 (Micro) surface profiling</td>
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<td>SPA11-6E-EN</td>
<td>L50 (Linear) surface profiling</td>
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**City sector** | **Block** | **Site/Reg. nr.** | **File nr.** |
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**Building type** | **Drawing type** | **Nr.** |
|------------------|------------------|--------|

**Building, Name and address** | **Contents of drawing** | **Scale** |
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<td><strong>External walls (75 pcs)</strong></td>
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**Ruukki Construction Oy**
Vimpelintie 661
FI - 62900 ALAJÄRVI
FINLAND
www.ruukki.com

**Date** | **Designer** | **Work nr.** | **Work nr.** | **Drw. nr.** | **Rev.** |
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**Drawn by** | **Checked** | **Drw. nr.** | **Rev.** |
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## SANDWICH PANELS

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<th>Description</th>
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<td>001.</td>
<td>Sandwich panel SPA 80-230</td>
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<tr>
<td>002.</td>
<td>Sandwich panel SPA corner element</td>
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## FLASHINGS

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<td>Standard purlins and starter tracks</td>
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<td>101-109.</td>
<td>Purlins and other t ≥ 2 mm fastening flashings</td>
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<tr>
<td>111-119.</td>
<td>Plinth flashings</td>
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<td>121-124.</td>
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<td>125-129.</td>
<td>Purlins</td>
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<tr>
<td>131-159.</td>
<td>Vertical seam-, external- and internal corner flashings</td>
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<td>161-179.</td>
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<td>195-199.</td>
<td>Flashings used in uplifted roofs</td>
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## FASTENERS

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<tbody>
<tr>
<td>201.</td>
<td>Self-drilling element screw, washer with sealing</td>
</tr>
<tr>
<td>202.</td>
<td>Self-drilling element screw, without washer</td>
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<tr>
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<td>Self-drilling element screw / fastener screw for roof</td>
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<td>206.</td>
<td>Self-drilling element screw / fastener screw for roof</td>
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<tr>
<td>211.</td>
<td>Self-threading element screw, washer with sealing</td>
</tr>
<tr>
<td>212.</td>
<td>Self-threading element screw, without washer</td>
</tr>
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<td>215.</td>
<td>Countersink washer</td>
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<td>221.</td>
<td>Internal thread socket and hex bolt (for vemo fastenings)</td>
</tr>
<tr>
<td>231.</td>
<td>Flashing fastener, washer with sealing</td>
</tr>
<tr>
<td>232.</td>
<td>Flashing fastener, without washer</td>
</tr>
<tr>
<td>233.</td>
<td>Flashing fastener, washer with sealing</td>
</tr>
<tr>
<td>234.</td>
<td>Flat headed flashing fastener</td>
</tr>
<tr>
<td>235.</td>
<td>Joint panel fastener, stainless steel, washer with sealing</td>
</tr>
<tr>
<td>241.</td>
<td>Fastener screw, washer with sealing</td>
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<td>242.</td>
<td>Fastener screw, without washer</td>
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<tr>
<td>251.</td>
<td>Spike element fastener, washer with sealing</td>
</tr>
<tr>
<td>255.</td>
<td>Spike fastener, without washer</td>
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## SEALANTS AND INSULATIONS

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<td>303.</td>
<td>Sealing band for concrete frame</td>
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<td>305.</td>
<td>Butyl rubber sealant</td>
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<td>310.</td>
<td>Mineral- / stonewool</td>
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<td>311.</td>
<td>Mineral wool</td>
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<td>312.</td>
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<td>321.</td>
<td>Elastic sealant</td>
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<td>325.</td>
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<td>326.</td>
<td>Elastic sealant during installation</td>
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<td>330.</td>
<td>PU insulation</td>
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<td>Plywood</td>
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<td>342.</td>
<td>L-profile</td>
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Copyright © Ruukki Construction Oy. Allowed only for designs with Ruukki's products.
001. Sandwich panel SPA
100. /EA1U___/ Starter track
111. /EA1P3-___/ Cill flashing (installed simultaneously with elements)
131. /EA1JV1/ Vertical joint flashing
255. /S5R48038/ Spike-fastener, concrete c/c600
265. /S3H55042WA4B/ Fastener, wood c/c600
300. /EA3SP___10/ Plinth sealing
312. /EAWS___/ Mineral wool band
341. Plywood, if necessary

Ruukki's delivery

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001. Sandwich panel SPA
100. /EA1U___/ Starter track
112. /EA1P1-___/ Cill flashing (can be installed after element installation)
134. /EA1JV10-11/ Vertical joint panel
149. /EA1SF1/ Joint panel starting fillet
231. Flashing fastener, washer with sealing
235. Joint panel fastener, stainless steel, washer with sealing
255. /S5R48038/ Spike-fastener, concrete c/c600
265. /S3H55042WA4B/ Fastener, wood c/c600 or
300. /EA3SP___10/ Plinth sealing
312. /EAWS___/ Mineral wool band
321. /EA3SM310___/ Elastic sealant

Ruukki’s delivery

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001. Sandwich panel SPA
100. /EA1U____/ Starter track
113. /EA1P4____/ Cill flashing (can be installed after element installation)
114. /EA1PS1____/ Support flashing (installed simultaneously with elements)
131. /EA1JV1/ Vertical joint flashing
231. Flashing fastener, washer with sealing
255. /S5R48038/ Spike-fastener, concrete c/c600
265. /S3H55042WA4B/ Fastener, wood c/c600
300. /EA3SP___10/ Plinth sealing
312. /EAWS___/ Mineral wool band

Ruuksi’s delivery

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001. Sandwich panel SPA
100. /EA1U___/ Starter track
111. /EA1P3___/ Cill flashing (installed simultaneously with elements)
115. Support flashing, L200 k1000, according to project (installed simultaneously with elements)
133. /EA1JV9/ Vertical joint flashing
255. /S5R48038/ Spike-fastener, concrete c/c600
265. /S3H55042WA4B/ Fastener, wood c/c600
300. /EA3SP___10/ Plinth sealing
312. /EAWS___/ Mineral wool band

 Ruukki's delivery

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

Date: 22.01.2010  Rev. date: 04.05.2017
Drawn by: Ruukki  Rev.: 
Scale: 1:2  Building:

001. Sandwich panel SPA
131. /EA1JV1/ Vertical joint flashing
231. /EA1P5___/Cill flashing
(see can be installed after element installation)
131. /EA1JV1/ Vertical joint flashing
231. Flashing fastener, washer with sealing
234. Flat head flashing fastener
255. /S5R48038/ Spike-fastener, concrete c/c600
265. /S3H55042WA4B/ Fastener, wood c/c600
300. /EA3SP___10/ Plinth sealing
302. /EA3SS410/ Sealing strip
312. /EAWS___/ Mineral wool band
321. /EA3SM310___/ Elastic sealant

Ruuksi's delivery

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001. Sandwich panel SPA
105. /EA1L75/ Support L-purlin, (t=3mm)
115. Support flashing, L200 k1000, according to project
   (installed simultaneously with elements)
116. /EA1P5-___/ Cill flashing (can be installed
   after element installation)
117. Cover flashing, according to project
   (installed simultaneously with elements)
118. Cover flashing, according to project
131. /EA1JV1/ Vertical joint flashing
201. Self-drilling element screw, washer with sealing
231. Flashing fastener, washer with sealing
234. Flat head flashing fastener
234. Flat head flashing fastener
255. /S5R48038/ Spike-fastener, concrete c/c600
300. /EA3SP___10/ Plinth sealing
302. /EA3SS410/ Sealing strip
321. /EA3SM310___/ Elastic sealant
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, horizontal installation**

**Plinth, detail**

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**Drawn by**: Ruukki

**Scale**: 1:1

**Building**

---

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

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

Elastic sealant during installation

Drain holes in the corner of starter track Ø12 c/c300
<table>
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<th>Date</th>
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<th>Work nr.</th>
<th>Drawing nr.</th>
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<td></td>
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**Contents of drawing**

Sandwich panel SPA, horizontal installation
Plinth, detail

- Elastic sealing strip, if necessary, installed in the factory
- Drain holes in the corner of starter track Ø12 c/c300

**Copyright © Ruukki Construction Oy. Allowed only for designs with Ruukki's products.**
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, if necessary, installed in the factory.

Drain holes in the corner of starter track Ø12 c/c300.
Elastic sealant after installation
Contents of drawing
Sandwich panel SPA, vertical- and diagonal installation
Plinth, detail

Elastic sealant after installation

Elastic sealant to outer female groove during installation
Elastic sealing strip, if necessary, is installed in the factory as a standard in the factory.

When force of wind pressure is > 0.6 kN/m², element groove sealant is needed. If sealant is needed, it must be documented in the element order form.

- 001. Sandwich panel SPA
- 325. /EA3SM310___/ Elastic sealant 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

Copyright © Ruukki Construction Oy. Allowed only for designs with Ruukki's products.
External groove joint sealant must be documented in the element order form.

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

Elastic sealing strip, if necessary, is installed in the factory.

- 001

1200 ±2

326

- 001

1200 ±2

- 001

Elastic sealing strip during installation to outer female groove in full length of element and inner female groove 60 mm from panel end.

001. Sandwich panel SPA

326./EA3SM310__/ Elastic sealant during installation to outer female groove in full length of element and inner female groove 60 mm from panel end.

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Copyright © Ruukki Construction Oy. Allowed only for designs with Ruukki's products.
Horizontal installation:
Elastic mastic sealant during installation to outer female groove. Length equivalent to width of vertical joint flashing. 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 from panel end. 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  horizontal installation
Vertical joint, horizontal section
Rectangle hollow section column, option 1

Date: 22.01.2010  Rev. date: 04.05.2017
Drawn by: Ruukki
Scale: 1:2

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
305. /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)

305. /EA3JSN7525/ Joint sealing Nordic
312. /EAWS___/ Mineral wool band
325. /EA3SM310___/ Elastic sealant during inst. to outer female groove in length equivalent to vertical joint flashing width and inner female groove in length of sealing

Ruukki’s delivery

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215, requires preholes 27 mm

Self-threading element 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
- 140. /EA1JVB4/ Vertical bottom flashing invisible
- 144. /EA1JVI/ Vertical joint flashing invisible
- 212. Self-threading element screw, without washer
- 215. /EA2W40-910S/ Countersink washer
- 234. /S1E42013GE/ Flat head flashing fastener
- 302. /EA3SS410/ Sealing strip
- /EA3SS510/ Sealing band EPDM for flashing

(for demanding climate conditions e.g. coastal areas)

- 306. /EA3JSN15025/ Joint sealing Nordic
- 312. /EAWS___/ Mineral wool band
- 325. /EA3SM310___/ Elastic sealant during inst.

to outer female groove in length equivalent to vertical joint flashing width and inner female groove in length of sealing

Ruukki's delivery

Copyright © Ruukki Construction Oy. Allowed only for designs with Ruukki's products.
- 001. Sandwich panel SPA
- 134. /EA1JV10-11/ Vertical joint panel (h = 600 or 1200)
- 201. Self-drilling element screw, washer with sealing
- 235. Joint panel fastener, stainless steel, washer with sealing
- 302. /EA3SS410/ Sealing strip
- 305. /EA3JSN7525/ Joint sealing Nordic
- 312. /EAWS___/ Mineral wool band
- 325. /EA3SM310___/ Elastic sealant during inst.

Ruukki's delivery

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001. Sandwich panel SPA
135. /EA1JV4/ Vertical joint flashing
148. /EA1VCO/ Vertical cover flashing
251. Spike panel fastener, washer with sealing
231. Flashing fastener, washer with sealing
303. /EA3SS1210/ Sealant

305. /EA3JSN7525/ Joint sealing Nordic
312. /EAWS___/ Mineral wool band
325. /EA3SM310___/ Elastic sealant during inst.

to outer female groove in length equivalent to vertical joint flashing width and inner female groove in length of sealing

Ruukki's delivery

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Contents of drawing
Sandwich panel SPA, horizontal installation
Vertical joint, horizontal section
Laminated timber column, option 5

- 001. Sandwich panel SPA
- 136. /EA1JV7/ Vertical joint flashing
- 137. /EA1JV8/ Vertical joint bottom flashing
- 148. /EA1VCO/ Vertical cover flashing
- 215. /EA2W40-910S/ Countersink washer
- 231. Flashing fastener, washer with sealing
- 262. Self-drilling element screw to wood, without washer
- 271. Rivet

- 302. /EA3SS410/ Sealing strip
- 305. /EA3JSN7525/ Joint sealing Nordic
- 325. /EA3SM310___/ Elastic sealant during inst.

○ 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
- 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
- 305. /EA3JSN7525/ Joint sealing Nordic
- 312. /EAWS___/ Mineral wool band
- 325. /EA3SM310___/ Elastic sealant during inst.

(char for demanding climate conditions e.g. coastal areas)

- Ruukki's delivery
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. /EA3JSN7525/ Joint sealing Nordic
312. /EAWS___/ Mineral wool band
325. /EA3SM310___/ Elastic sealant during inst.
to outer female groove in length equivalent to
vertical joint flashing width and inner female groove
in length of sealing

Screw drilling tip can be cut off after element installation

Ruukki’s delivery

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Sandwich panel SPA, horizontal installation
Vertical joint, horizontal section
Rectangle hollow section column, option 8

- Ruukki's delivery

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Contents of drawing

Sandwich panel SPA, horizontal installation
External corner, horizontal section
Rectangle hollow section column, option 1

- Facing sheet cutting at site by length \( b = \text{element thickness} \)
- \( \geq 30 \)
- \( 20 \)
- \( 312 \)
- \( 325 \)
- \( 308 \)
- \( 231 \)
- \( 001 \)
- \( 201 \)
- \( 141 \)

- 001. Sandwich panel SPA
- 141. /EA1EC1-3/ External corner flashing, recommended element thickness \( \leq 150 \) mm
- 201. Self-drilling element screw, washer with sealing
- 231. Flashing fastener, washer with sealing
- 302. /EA3SS410/ Sealing strip
  /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)
- 308. /EA3JSCN30025/ Joint sealing corner Nordic
- 312. /EAWS___/ Mineral wool band
- 325. /EA3SM310___/ Elastic sealant during inst.
  to outer female groove in length equivalent to vertical joint flashing width and inner female groove in length of sealing

- Ruukki’s delivery

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Sandwich panel SPA, horizontal installation
External corner, horizontal section
I-steel profile, option 2

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

- Ruukki's delivery

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

- 001. Sandwich panel SPA
- 142. /EA1EC11-14/ External corner panel
- 146. /EA1EC9-___/ External corner flashing
- 231. Flashing fastener, washer with sealing
- 235. Joint panel fastener, stainless steel, washer with sealing
- 251. Spike-elementtikiinnike betoniin, tiiv. aluslevy
- 302. /EA3SS410/ Sealing strip
- 303. /EA3SS1210/ Sealing
- 303. /EA3SS1210/ Sealing band EPDM for flashing
  (for demanding climate conditions e.g. coastal areas)
- 305. /EA3SM310___/ Elastic sealant during inst. to outer female groove in length equivalent to vertical joint flashing width and inner female groove in length of sealing

\( b \geq 50 \)
\( \geq 30 \)

Ruukki’s delivery

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Sandwich panel SPA, horizontal installation
External corner, horizontal section
Rectangle hollow section column, option 4

Contents of drawing

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

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

- 302. /EA3SS410/ Sealing strip
321, sealant under the flashing during installation
325. /EA3SM310___/ Elastic sealant during inst.
to outer female groove in length equivalent to vertical joint flashing width and inner female groove in length of sealing

- 143. /EA1EC5/ External corner flashing,
- 148. /EA1VCO/ Vertical cover flashing

Ruukki's delivery

Copyright © Ruukki Construction Oy. Allowed only for designs with Ruukki's products.
- 001. Sandwich panel SPA
- 135. /EA1JV4/ Vertical joint flashing
- 145. /EA1C10___/ Vertical joint flashing, t = 1 mm / 1.2 mm (limited range of colours)
- 148. /EA1VCO/ Vertical cover flashing
- 261. Self-drilling element screw to wood, washer with sealing
- 231. Flashing fastener, washer with sealing
- 312. /EAWS___/ Mineral wool band
- 325. /EA3SM310___/ Elastic sealant during installation to outer female groove
  in length equivalent to vertical joint flashing width and inner female groove in length of sealing

✅ Ruukki’s delivery

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

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

- 001. Sandwich panel SPA
- 121. /EA6FP_/ Fastening plate
- 138. /EA1JV2/ Vertical joint flashing
- 145. /EA1C10___/ External corner flashing, t = 1 mm / 1.2 mm (limited range of colours)
- 221. Internal threaded socket and hex bolt
- 231. Flashing fastener, washer with sealing
- 302. /EA3SS410/ Sealing strip
  /EA3SS510/ Sealing band EPDM for flashing
  (for demanding climate conditions e.g. coastal areas)
- 312. /EAWS___/ Mineral wool band
- 325. /EA3SM310___/ Elastic sealant 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

Copyright © Ruukki Construction Oy. Allowed only for designs with Ruukki’s products.
001. Sandwich panel SPA
002. Sandwich panel SPA corner element,
   (SPA80 - 200 external dimension 300 - 2400 mm, SPA230 external dimension 350 - 2400 mm)
136. /EA1JV7/ Vertical joint flashing
137. /EA1JVB2/ Vertical joint bottom flashing
148. /EA1VCO/ Vertical cover flashing
202. Self-drilling element screw, without washer
215. /EA2W40-910S/ Countersink washer
231. Flashing fastener, washer with sealing
271. Rivet
302. /EA3SS410/ Sealing strip
   /EA3SS510/ Sealing band EPDM for flashing
   (for demanding climate conditions e.g. coastal areas)
305. /EA3RBS06/ Butyl rubber sealant
312. /EAWS___/ Mineral wool band
325. /EA3SM310___/ Elastic sealant during installation to outer female groove
   in length equivalent to vertical joint flashing width and inner female groove in length of sealing

Ruukki's delivery

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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
302. /EA3SS510/ Sealing band EPDM for flashing
(for demanding climate conditions e.g. coastal areas)
312. /EAWS___/ Mineral wool band
325. /EA3SM310___/ Elastic sealant during installation to outer female groove
in length equivalent to vertical joint flashing width and inner female groove in length of sealing

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

Ruukki’s delivery

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001. Sandwich panel SPA
151. /EA1C3/ 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. /EA3JSN7525/ Joint sealing Nordic
312. /EAWS___/ Mineral wool band
325. /EA3SM310___/ Elastic sealant during installation to outer female groove
in length equivalent to vertical joint flashing width and inner female groove in length of sealing

Ruukki’s delivery

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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. /EA3JSN7525/ Joint sealing Nordic
312. /EAWS___/ Mineral wool band
321. /EA3SM310___/ Elastic sealant
325. /EA3SM310___/ Elastic sealant during installation to outer female groove
in length equivalent to vertical joint flashing width and inner female groove in length of sealing

Remember that under internal corner flashing EA1IC9 butt joints must be butt strap EA1CJP2
001. Sandwich panel SPA
153. /EA1IC8/ Internal corner flashing
154. /EA1IC10/12 (left)/ Internal corner panel
155. /EA1IC11/13 (right)/ Internal corner panel
201. Self-drilling element screw, washer with sealing
231. Flashing fastener, washer with sealing
235. Joint panel fastener, stainless steel, washer with sealing
302. /EA3SS410/ Sealing strip
305. /EA3JSN7525/ Joint sealing Nordic
312. /EAWS___/ Mineral wool band
325. /EA3SM310___/ Elastic sealant during installation to outer female groove

- Screw drilling tip can be cut off after installation

☑ Ruukki's delivery

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

- 001. Sandwich panel SPA
- 100. /EA1D___/ 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
- 312. /EAWS___/ Mineral wool band
- 171. Insulation support flashing, t = 0.6 mm, according to project
- 232. Flashing fastener, without washer
- 265. Fastener screw to wood, washer with sealing
- 311. /EAWS30565/ Mineral wool
- 312. /EAWS___/ Mineral wool band

Ruukki’s delivery

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

Date 22.01.2010
Rev. date 04.05.2017
Drawn by Ruukki
Scale 1:5

Insulation thickness is dimensioned according to project.

Supports and fastening of profiled sheet according to structural designer.

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

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

001. Sandwich panel SPA
100. /EA1D___/ 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
172. Insulation support flashing, t = 0.6 mm
232. Flashing fastener, without washer
265. Fastener screw to wood, washer with sealing
311. /EAWS30565/ Mineral wool
312. /EAWS___/ Mineral wool band

Ruukki's delivery

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

Contents of drawing

001. Sandwich panel SPA
100. /EA1D___/ 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

001. Sandwich panel SPA
100. /EA1D___/ 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

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

- Ruukki's delivery

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### Contents of drawing

**Sandwich panel SPA, horizontal installation**

**Cantilever eaves, side eaves**

**Profiled sheet roof deck, vertical section**

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**Profiled sheet, anti-condensation treatment recommended**

**Load bearing profiled sheet sealed with a flashing on both sides**

**Water drainage system**

- **001. Sandwich panel SPA**
- **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**

- **001. Sandwich panel SPA**
- **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**

- **Ruuksi’s delivery**

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Contents of drawing

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

001. Sandwich panel SPA
001
131
164
231

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
301. /EA1D___/ Purlin
311. /EA1HP1/ Ventilated hat purlin
312. /EAWS___/ Mineral wool band
312. /EAWS30565/ Mineral wool

Load bearing profiled sheet sealed with a flashing on both sides

Sealing band, recommended

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
301. /EA1D___/ Purlin
311. /EA1HP1/ Ventilated hat purlin
312. /EAWS___/ Mineral wool band

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

Ruukki's delivery

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001. Sandwich panel SPA
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

Load bearing profiled sheet sealed with a flashing on both sides

Perforated profiled sheet
Storm flashing (164) if necessary, see SPA06-6E

Water drainage system

Plywood
Wooden wedge

Insulation thickness is dimensioned according to project.

Supports and fastening of profiled sheet according to structural designer.

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

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

Ruuikki's delivery

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Contents of drawing
Sandwich panel SPA, horizontal installation
Cantilever eaves, end eaves
Bitumen roofing felt, vertical section

Date 22.01.2010  Rev. date 04.05.2017  Work nr.  SPA06-8E-EN
Drawn by Ruukki  Rev.  Drawing nr. File nr.
Scale 1:5  Building

001. Sandwich panel SPA
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
131. /EA1JV1/ Vertical joint flashing
168. 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
312. /EAWS___/ Mineral wool band

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

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

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 SPA06-13E

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

Ruukki’s delivery

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

Date 22.01.2010  Rev. date 04.05.2017  Work nr. SPA06-10E-EN
Drawn by Ruukki  Rev. Building
Scale 1:5  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. /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
- 001. Sandwich panel SPA
- 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

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 SPA06-13E

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

- Ruukki's delivery

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Contents of drawing
Sandwich panel SPA, horizontal installation
Eaves, 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 SPA06-13E

- 001. Sandwich panel SPA
- 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. 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
Sandwich panel SPA, horizontal installation
Uplifted roofing, vertical section

Contents of drawing

- 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

- 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

- 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 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, \( t = 0.6 \text{ mm} \), 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)
- 321. /EA3SM310__/ Elastic sealant
- 323. Elastic sealant
- 312. /EAWS___/ Mineral wool band

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

- 001. Sandwich panel SPA
- 312. /EAWS___/ Mineral wool band
- 323. 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 window is installed during installation of elements. Fastening according to window manufacturers instructions.

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

Supporting structures according to structural designer.

- 001. Sandwich panel SPA
- 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

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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 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
323. /EA3SS510/ Sealing band EPDM for flashing
(\textit{for demanding climate conditions e.g. coastal areas})
302. /EA3SM310/ Elastic sealant during inst.
to outer and inner female grooves
312. /EAWS___/ Mineral wool band
323. Elastic sealant
325. /EA3SM310___/ Elastic sealant during inst.
to outer and inner female grooves

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

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

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

Supporting structures, if necessary, according to structural designer (SPA08-4E).
Note! Openings must be taken into account in dimensioning of elements.

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

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

- 001. Sandwich panel SPA
- 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 band
- 321. /EA3SM310___/ Elastic sealant
- 323. Elastic sealant

☑ 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 sealant to outer female groove to length equivalent to vertical joint flashing and inner female groove in length of sealing (SPA02-1E).
Note! Openings must be taken into account in dimensioning of elements.

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

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

Supporting structures according to structural designer.

- 001. Sandwich panel SPA
- 182. Drip flashing, t = 0.6 mm, according to project
- 183. Storm flashing, t = 0.6 mm, according to project
- 201. Self-drilling element screw, washer with sealing
- 231. Flashing fastener, washer with sealing
- 302. /EA3SS410/ Sealing strip
- /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)
- 312. /EAWS___/ Mineral wool band
- 321. /EA3SM310___/ Elastic sealant
- 323. Elastic sealant

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

Supporting structures according to structural designer.

- 001. Sandwich panel SPA
- 185. Cover flashing, t = 0.6 mm, according to project
- 201. Self-drilling element screw, washer with sealing
- 231. Flashing fastener, washer with sealing
- 302. /EA3SS410/ Sealing strip
- /EA3SS510/ Sealing band EPDM for flashing
  (for demanding climate conditions e.g. coastal areas)
- 312. /EAWS__/ Mineral wool band
- 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 sealant to outer female groove to length equivalent to vertical joint flashing and inner female groove in length of sealing (SPA02-1E).

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

- 001. Sandwich panel SPA
- 100. EA1D___/ Door frame stud
- 181. Drip flashing, t = 0.6 mm, according to project
- 189. Cover flashing, t = 0.6 mm, according to project
- 191. Cover flashing, t = 0.6 mm, according to project
- 231. Flashing fastener, washer with sealing
- 232. Flashing fastener, without washer
- 234. Flat head flashing fastener
- 302. /EA3SS410/ Sealing strip
- /EA3SS510/ Sealing band EPDM for flashing (for demanding climate conditions e.g. coastal areas)
- 310. /EA___/ Wool
- 312. /EAWS___/ Mineral wool band
- 321. /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 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).
Note! Openings must be taken into account in dimensioning of elements.

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

Supporting structures according to structural designer.

- 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 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.

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### Contents of drawing

#### Sandwich panel SPA80

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#### Details:

- **Cover width:** 1200 ±2
- **Height:** 80 ±2

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Sandwich panel SPA100

Cover width = 1200 ±2
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- **Drawn by**: Ruukki
- **Scale**: 1:10
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Cover width = 1200 ±2
Sandwich panel SPA150

Cover width = 1200 ±2
Contents of drawing

Sandwich panel SPA175

Date: 20.08.2015
Drawn by: Ruukki
Scale: 1:10

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## Sandwich panel SPA200

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Cover width = 1200 ±2
## Contents of drawing

**Sandwich panel SPA230**

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**Drawn by**

Ruukki

**Scale**

1:10

**Building**

Cover width = 1200 ±2
Contents of drawing

Sandwich panel SPA
Rib R150 surface profiling

- Available for external and internal facings.

Date 20.08.2015
Rev. date

Drawn by Ruukki
Rev.

Scale 1:10

Building

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Drawn by Ruukki

Scale 1:10

Available for external and internal facings.

Contents of drawing

Sandwich panel SPA
Rib R200 surface profiling

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Available for external and internal facings.

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Rib R600 surface profiling

Sandwich panel SPA

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- **Drawn by:** Ruukki
- **Scale:** 1:10
- **Contents of drawing:** Sandwich panel SPA Smooth F surface (no profiling)
Available for external and internal facings.

Contents of drawing
Sandwich panel SPA
M15 (Micro) surface profiling

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Drawn by
Ruukki

Scale
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Building

File nr.

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Available for external and internal facings.

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Contents of drawing:

Sandwich panel SPA
L50 (Linear) surface profiling

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