

Sandwich panels

Span tables for sandwich panels

Ruukki SPF PU/PIR, Ruukki SP2B PU/PIR, Ruukki SP2D PU/PIR,
Ruukki SP2E PU/PIR, Ruukki SP2C PU/PIR

Ruukki panels, thanks to their high quality core and cladding materials, and innovative glueing system, boast excellent durability, corrosion resistance, thermal insulation and mechanical properties. Our calculated strength tables allow the quick and easy selection of panels suitable for a particular building. With Ruukki panels even dark colours can be successfully used. Our panels have achieved the highest class of sound insulation and absorption based on European norms. With our panels customers' buildings will live longer.

Product application

- production halls
- storehouse halls
- sport halls
- trade buildings
- exhibition objects
- office buildings
- administration buildings
- cold stores
- freezers

● Contents

| | | | |
|--|----|--|----|
| Maximum allowed span for uniform (wind) characteristic load [kN/m ²] Ruukki SPF98/80PU/PIR..... | 3 | Maximum allowed span for uniform (snow) characteristic load [kN/m ²] Ruukki SP2C120/80 PU/PIR | 18 |
| Maximum allowed span for uniform (wind) characteristic load [kN/m ²] Ruukki SP2B40 PU/PIR | 4 | Maximum allowed span for uniform (snow) characteristic load [kN/m ²] Ruukki SP2C140/100 PU/PIR | 19 |
| Maximum allowed span for uniform (wind) characteristic load [kN/m ²] Ruukki SP2B60 PU/PIR | 5 | Maximum allowed span for uniform (snow) characteristic load [kN/m ²] Ruukki SP2C160/120 PU/PIR | 20 |
| Maximum allowed span for uniform (wind) characteristic load [kN/m ²] Ruukki SP2B80 PU/PIR | 6 | Maximum allowed span for uniform (wind) characteristic load [kN/m ²] Ruukki SPC170 PU | 21 |
| Maximum allowed span for uniform (wind) characteristic load [kN/m ²] Ruukki SP2B100 PU/PIR | 7 | | |
| Maximum allowed span for uniform (wind) characteristic load [kN/m ²] Ruukki SP2B100 PU/PIR (Cold stores) | 8 | | |
| Maximum allowed span for uniform (wind) characteristic load [kN/m ²] Ruukki SP2D60 PU/PIR | 9 | | |
| Maximum allowed span for uniform (wind) characteristic load [kN/m ²] Ruukki SP2D80 PU/PIR | 10 | | |
| Maximum allowed span for uniform (wind) characteristic load [kN/m ²] Ruukki SP2D100 PU/PIR | 11 | | |
| Maximum allowed span for uniform (wind) characteristic load [kN/m ²] Ruukki SP2E120 PU/PIR | 12 | | |
| Maximum allowed span for uniform (wind) characteristic load [kN/m ²] Ruukki SP2E160 PU/PIR | 13 | | |
| Maximum allowed span for uniform (wind) characteristic load [kN/m ²] Ruukki SP2E180 PU/PIR | 14 | | |
| Maximum allowed span for uniform (wind) characteristic load [kN/m ²] Ruukki SP2E200 PU/PIR | 15 | | |
| Maximum allowed span for uniform (snow) characteristic load [kN/m ²] Ruukki SP2C80/40 PU/PIR | 16 | | |
| Maximum allowed span for uniform (snow) characteristic load [kN/m ²] Ruukki SP2C100/60 PU/PIR | 17 | | |

● **Maximum allowed span for uniform (wind) characteristic load [kN/m²] Ruukki SPF98/80PU/PIR**

Table 1

External facing thickness: 0.63 mm
 Internal facing thickness: 0.55 mm
 External temperature: +55 °C; +65 °C; +80 °C/-20 °C (summer/winter)
 Internal temperature: +20 °C/+20 °C (summer/winter)
 Min. end support width: 40 mm
 Min. intermediate support width: 60 mm
 Min. number of fasteners at end support: 1 *

Min. number of fasteners at intermediate support: 1*
 * – 1 set includes 1 pc. of L04 or L04C/N or L12 fastener and 2 pcs. of L01 or L02 fasteners
 ULS – Ultimate Limit State
 SLS – Serviceability Limit State

| Static scheme | Colour group | Criterion | Characteristic load [kN/m ²] | | | | | | | | | | | | | | |
|---------------|--------------|-----------|--|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| | | | -1.2 | -1.0 | -0.8 | -0.6 | -0.5 | -0.4 | -0.3 | 0.3 | 0.4 | 0.5 | 0.6 | 0.8 | 1.0 | 1.2 | |
| Single span | I | ULS | 4,99 | 5,47 | 6,11 | 7,06 | 7,74 | 8,64 | 9,98 | 14,89 | 12,89 | 11,52 | 10,51 | 8,95 | 7,15 | 5,97 | |
| | | L/100 | 6,14 | 6,63 | 7,26 | 8,02 | 8,54 | 9,18 | 10,06 | 9,70 | 8,98 | 8,36 | 7,87 | 7,13 | 6,58 | 6,14 | |
| | | SLS | L/150 | 5,07 | 5,44 | 5,92 | 6,55 | 6,97 | 7,40 | 7,89 | 7,37 | 6,96 | 6,63 | 6,35 | 5,78 | 5,33 | 4,96 |
| | | L/200 | 4,31 | 4,63 | 5,05 | 5,54 | 5,77 | 6,07 | 6,42 | 5,94 | 5,64 | 5,40 | 5,19 | 4,85 | 4,51 | 4,19 | |
| | II | ULS | 5,00 | 5,47 | 6,12 | 7,06 | 7,73 | 8,64 | 9,98 | 14,89 | 12,89 | 11,52 | 10,51 | 8,95 | 7,16 | 5,97 | |
| | | L/100 | 6,06 | 6,48 | 7,01 | 7,72 | 8,19 | 8,66 | 9,22 | 9,70 | 8,99 | 8,36 | 7,87 | 7,13 | 6,59 | 6,14 | |
| | | SLS | L/150 | 4,86 | 5,21 | 5,62 | 6,02 | 6,26 | 6,55 | 6,90 | 7,38 | 6,96 | 6,63 | 6,35 | 5,78 | 5,32 | 4,96 |
| | | L/200 | 4,09 | 4,33 | 4,57 | 4,88 | 5,05 | 5,26 | 5,51 | 5,94 | 5,65 | 5,40 | 5,20 | 4,84 | 4,51 | 4,20 | |
| | III | ULS | 5,01 | 5,48 | 6,12 | 7,07 | 7,74 | 8,65 | 9,99 | 14,89 | 12,89 | 11,52 | 10,51 | 8,94 | 7,15 | 5,97 | |
| | | L/100 | 5,78 | 6,16 | 6,53 | 6,96 | 7,23 | 7,53 | 7,91 | 9,70 | 8,98 | 8,36 | 7,87 | 7,13 | 6,58 | 6,14 | |
| | | SLS | L/150 | 4,44 | 4,64 | 4,88 | 5,15 | 5,32 | 5,50 | 5,71 | 6,66 | 6,67 | 6,63 | 6,35 | 5,78 | 5,33 | 4,96 |
| | | L/200 | 3,56 | 3,71 | 3,88 | 4,08 | 4,19 | 4,31 | 4,46 | 5,01 | 5,02 | 5,02 | 5,01 | 4,85 | 4,51 | 4,19 | |
| Two span | I | ULS | 3,04 | 3,64 | 4,58 | 6,20 | 7,54 | 8,64 | 9,97 | 6,37 | 5,93 | 5,62 | 5,38 | 5,03 | 4,77 | 4,57 | |
| | | L/100 | 7,70 | 8,39 | 9,27 | 10,50 | 11,33 | 12,40 | 13,89 | 13,89 | 12,40 | 11,33 | 10,50 | 9,28 | 8,39 | 7,70 | |
| | | SLS | L/150 | 6,28 | 6,90 | 7,70 | 8,80 | 9,54 | 10,50 | 11,82 | 11,82 | 10,50 | 9,54 | 8,80 | 7,70 | 6,90 | 6,28 |
| | | L/200 | 5,37 | 5,94 | 6,67 | 7,70 | 8,39 | 9,28 | 10,50 | 10,39 | 9,27 | 8,39 | 7,70 | 6,68 | 5,94 | 5,37 | |
| | II | ULS | 2,85 | 3,42 | 4,33 | 5,93 | 7,26 | 8,64 | 9,98 | 6,37 | 5,94 | 5,63 | 5,38 | 5,03 | 4,77 | 4,57 | |
| | | L/100 | 7,70 | 8,39 | 9,28 | 10,50 | 11,33 | 12,40 | 13,89 | 13,89 | 12,40 | 11,33 | 10,50 | 9,28 | 8,39 | 7,70 | |
| | | SLS | L/150 | 6,28 | 6,90 | 7,70 | 8,80 | 9,54 | 10,50 | 11,81 | 11,82 | 10,50 | 9,54 | 8,80 | 7,70 | 6,90 | 6,28 |
| | | L/200 | 5,37 | 5,94 | 6,68 | 7,70 | 8,36 | 9,14 | 10,21 | 10,39 | 9,28 | 8,39 | 7,70 | 6,68 | 5,94 | 5,37 | |
| | III | ULS | 2,56 | 3,07 | 3,92 | 5,47 | 6,78 | 8,19 | 9,99 | 6,36 | 5,93 | 5,63 | 5,38 | 5,03 | 4,77 | 4,57 | |
| | | L/100 | 7,70 | 8,39 | 9,28 | 10,50 | 11,33 | 12,40 | 13,84 | 13,88 | 12,40 | 11,33 | 10,50 | 9,27 | 8,39 | 7,71 | |
| | | SLS | L/150 | 6,28 | 6,90 | 7,70 | 8,73 | 9,38 | 10,21 | 11,33 | 11,82 | 10,50 | 9,54 | 8,80 | 7,70 | 6,90 | 6,28 |
| | | L/200 | 5,37 | 5,89 | 6,52 | 7,39 | 7,97 | 8,70 | 9,62 | 10,39 | 9,28 | 8,39 | 7,70 | 6,67 | 5,94 | 5,37 | |
| Multi span | I | ULS | 3,64 | 4,42 | 5,58 | 7,05 | 7,73 | 8,64 | 9,97 | 8,37 | 7,46 | 6,86 | 6,40 | 5,77 | 5,33 | 5,00 | |
| | | L/100 | 7,34 | 7,97 | 8,78 | 9,90 | 10,66 | 11,64 | 13,01 | 13,01 | 11,65 | 10,66 | 9,90 | 8,78 | 7,97 | 7,34 | |
| | | SLS | L/150 | 6,05 | 6,61 | 7,34 | 8,35 | 9,02 | 9,90 | 11,11 | 10,94 | 9,88 | 9,02 | 8,34 | 7,34 | 6,61 | 6,05 |
| | | L/200 | 5,22 | 5,74 | 6,41 | 7,34 | 7,97 | 8,72 | 9,68 | 9,47 | 8,56 | 7,87 | 7,33 | 6,41 | 5,74 | 5,22 | |
| | II | ULS | 3,55 | 4,31 | 5,47 | 7,06 | 7,73 | 8,64 | 9,98 | 8,37 | 7,47 | 6,85 | 6,40 | 5,77 | 5,33 | 5,01 | |
| | | L/100 | 7,34 | 7,97 | 8,78 | 9,90 | 10,66 | 11,64 | 13,01 | 13,01 | 11,65 | 10,66 | 9,90 | 8,78 | 7,97 | 7,34 | |
| | | SLS | L/150 | 6,05 | 6,61 | 7,34 | 8,35 | 8,98 | 9,73 | 10,75 | 10,93 | 9,88 | 9,02 | 8,35 | 7,34 | 6,61 | 6,05 |
| | | L/200 | 5,22 | 5,74 | 6,41 | 7,21 | 7,73 | 8,39 | 9,27 | 9,47 | 8,55 | 7,87 | 7,33 | 6,41 | 5,74 | 5,22 | |
| | III | ULS | 3,38 | 4,15 | 5,30 | 7,06 | 7,74 | 8,65 | 9,99 | 8,37 | 7,46 | 6,85 | 6,40 | 5,76 | 5,33 | 5,00 | |
| | | L/100 | 7,34 | 7,97 | 8,78 | 9,88 | 10,54 | 11,38 | 12,52 | 13,01 | 11,65 | 10,66 | 9,90 | 8,78 | 7,97 | 7,34 | |
| | | SLS | L/150 | 6,05 | 6,59 | 7,21 | 8,04 | 8,58 | 9,27 | 10,02 | 10,93 | 9,88 | 9,02 | 8,35 | 7,34 | 6,61 | 6,05 |
| | | L/200 | 5,13 | 5,57 | 6,10 | 6,83 | 7,22 | 7,63 | 8,15 | 9,47 | 8,55 | 7,87 | 7,33 | 6,41 | 5,74 | 5,22 | |

• **Maximum allowed span for uniform (wind) characteristic load [kN/m²] Ruukki SP2B40PU/PIR**

Table 2

External facing thickness: 0.50 mm
 Internal facing thickness: 0.40 mm
 External temperature: +55 °C; +65 °C; +80 °C/-20 °C (summer/winter)
 Internal temperature: +20 °C/+20 °C (summer/winter)
 Min. end support width: 40 mm
 Min. intermediate support width: 60 mm
 Min. number of fasteners at end support: 2 or 3
 Min. number of fasteners at intermediate support: 3 or 4

ULS – Ultimate Limit State
 ULS 3/0 – Ultimate Limit State; 3 fasteners at the end support
 ULS 2/0 – Ultimate Limit State; 2 fasteners at the end support
 ULS 2/4 – Ultimate Limit State; 2 fasteners at the end support / 4 fasteners at intermediate support
 ULS 2/3 – Ultimate Limit State; 2 fasteners at the end support / 3 fasteners at intermediate support
 SLS – Serviceability Limit State

| Static scheme | Colour group | Criterion | Characteristic load [kN/m ²] | | | | | | | | | | | | | |
|--------------------|--------------|-----------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | -1.2 | -1.0 | -0.8 | -0.6 | -0.5 | -0.4 | -0.3 | 0.3 | 0.4 | 0.5 | 0.6 | 0.8 | 1.0 | 1.2 |
| Single-span system | I | ULS 3/0 | 2.95 | 3.24 | 3.63 | 4.18 | 4.58 | 5.12 | 5.92 | 6.69 | 5.79 | 5.18 | 4.73 | 4.09 | 3.66 | 3.13 |
| | | ULS 2/0 | 2.95 | 3.24 | 3.63 | 4.18 | 4.58 | 5.12 | 5.92 | 6.69 | 5.79 | 5.18 | 4.73 | 4.09 | 3.66 | 3.13 |
| | | L/100 | 2.95 | 3.19 | 3.47 | 3.83 | 4.08 | 4.38 | 4.76 | 4.49 | 4.22 | 3.98 | 3.75 | 3.39 | 3.13 | 2.92 |
| | | SLS L/150 | 2.39 | 2.57 | 2.79 | 3.10 | 3.24 | 3.41 | 3.62 | 3.36 | 3.18 | 3.04 | 2.92 | 2.72 | 2.50 | 2.33 |
| | | L/200 | 2.01 | 2.17 | 2.35 | 2.53 | 2.64 | 2.76 | 2.91 | 2.67 | 2.55 | 2.44 | 2.35 | 2.20 | 2.08 | 1.95 |
| | II | ULS 3/0 | 2.95 | 3.24 | 3.63 | 4.18 | 4.58 | 5.12 | 5.92 | 6.69 | 5.79 | 5.18 | 4.73 | 4.09 | 3.66 | 3.13 |
| | | ULS 2/0 | 2.95 | 3.24 | 3.63 | 4.18 | 4.58 | 5.12 | 5.92 | 6.69 | 5.79 | 5.18 | 4.73 | 4.09 | 3.66 | 3.13 |
| | | L/100 | 2.87 | 3.07 | 3.33 | 3.65 | 3.81 | 4.00 | 4.24 | 4.49 | 4.22 | 3.98 | 3.75 | 3.40 | 3.13 | 2.92 |
| | | SLS L/150 | 2.28 | 2.43 | 2.57 | 2.75 | 2.85 | 2.98 | 3.12 | 3.36 | 3.19 | 3.04 | 2.92 | 2.72 | 2.50 | 2.33 |
| | | L/200 | 1.86 | 1.96 | 2.07 | 2.20 | 2.27 | 2.36 | 2.46 | 2.67 | 2.55 | 2.45 | 2.35 | 2.20 | 2.08 | 1.95 |
| | III | ULS 3/0 | 2.95 | 3.24 | 3.63 | 4.18 | 4.58 | 5.12 | 5.92 | 6.69 | 5.79 | 5.18 | 4.73 | 4.09 | 3.66 | 3.13 |
| | | ULS 2/0 | 2.95 | 3.24 | 3.63 | 4.18 | 4.58 | 5.12 | 5.92 | 6.69 | 5.79 | 5.18 | 4.73 | 4.09 | 3.66 | 3.13 |
| | | L/100 | 2.72 | 2.84 | 3.00 | 3.18 | 3.29 | 3.43 | 3.58 | 4.34 | 4.22 | 3.98 | 3.75 | 3.39 | 3.13 | 2.92 |
| | | SLS L/150 | 2.01 | 2.10 | 2.19 | 2.32 | 2.38 | 2.46 | 2.54 | 2.89 | 2.89 | 2.89 | 2.89 | 2.72 | 2.50 | 2.33 |
| | | L/200 | 1.58 | 1.65 | 1.73 | 1.81 | 1.84 | 1.90 | 1.96 | 2.17 | 2.17 | 2.17 | 2.17 | 2.17 | 2.08 | 1.95 |
| Double-span system | I | ULS 2/4 | 2.89 | 3.24 | 3.62 | 4.18 | 4.58 | 5.13 | 5.91 | 6.26 | 5.47 | 4.94 | 4.54 | 4.00 | 3.62 | 3.12 |
| | | ULS 2/3 | 2.13 | 2.55 | 3.21 | 4.18 | 4.58 | 5.12 | 5.91 | 6.26 | 5.47 | 4.94 | 4.54 | 4.00 | 3.62 | 3.12 |
| | | L/100 | 3.62 | 3.97 | 4.43 | 5.04 | 5.45 | 5.99 | 6.72 | 6.72 | 5.99 | 5.45 | 5.04 | 4.43 | 3.98 | 3.63 |
| | | SLS L/150 | 2.91 | 3.22 | 3.63 | 4.19 | 4.56 | 5.05 | 5.71 | 5.69 | 5.05 | 4.56 | 4.19 | 3.63 | 3.22 | 2.91 |
| | | L/200 | 2.45 | 2.73 | 3.11 | 3.62 | 3.98 | 4.43 | 5.00 | 4.89 | 4.36 | 3.97 | 3.63 | 3.11 | 2.74 | 2.45 |
| | II | ULS 2/4 | 2.82 | 3.24 | 3.62 | 4.18 | 4.58 | 5.13 | 5.91 | 6.26 | 5.47 | 4.94 | 4.54 | 4.00 | 3.62 | 3.12 |
| | | ULS 2/3 | 2.04 | 2.45 | 3.07 | 4.16 | 4.58 | 5.12 | 5.91 | 6.26 | 5.47 | 4.94 | 4.54 | 4.00 | 3.62 | 3.12 |
| | | L/100 | 3.62 | 3.97 | 4.43 | 5.04 | 5.45 | 5.99 | 6.72 | 6.72 | 5.99 | 5.45 | 5.04 | 4.43 | 3.98 | 3.63 |
| | | SLS L/150 | 2.91 | 3.22 | 3.63 | 4.19 | 4.56 | 5.02 | 5.60 | 5.70 | 5.05 | 4.56 | 4.19 | 3.63 | 3.22 | 2.91 |
| | | L/200 | 2.45 | 2.73 | 3.11 | 3.59 | 3.89 | 4.27 | 4.79 | 4.89 | 4.36 | 3.97 | 3.63 | 3.11 | 2.74 | 2.45 |
| | III | ULS 2/4 | 2.71 | 3.24 | 3.62 | 4.18 | 4.54 | 4.98 | 5.61 | 6.26 | 5.47 | 4.94 | 4.54 | 4.00 | 3.62 | 3.12 |
| | | ULS 2/3 | 1.91 | 2.27 | 2.90 | 3.99 | 4.55 | 4.98 | 5.62 | 6.26 | 5.47 | 4.94 | 4.54 | 4.00 | 3.62 | 3.12 |
| | | L/100 | 3.62 | 3.97 | 4.43 | 5.04 | 5.45 | 5.95 | 6.60 | 6.72 | 5.99 | 5.45 | 5.04 | 4.43 | 3.98 | 3.63 |
| | | SLS L/150 | 2.91 | 3.22 | 3.59 | 4.07 | 4.39 | 4.80 | 5.33 | 5.69 | 5.05 | 4.56 | 4.19 | 3.63 | 3.22 | 2.91 |
| | | L/200 | 2.39 | 2.64 | 2.96 | 3.39 | 3.67 | 3.97 | 4.31 | 4.89 | 4.36 | 3.97 | 3.63 | 3.11 | 2.74 | 2.45 |
| Multi-span system | I | ULS 2/4 | 2.95 | 3.24 | 3.63 | 4.18 | 4.58 | 5.12 | 5.92 | 6.69 | 5.79 | 5.18 | 4.73 | 4.09 | 3.66 | 3.13 |
| | | ULS 2/3 | 2.47 | 2.99 | 3.62 | 4.18 | 4.58 | 5.13 | 5.91 | 6.69 | 5.79 | 5.18 | 4.73 | 4.09 | 3.66 | 3.13 |
| | | L/100 | 3.49 | 3.80 | 4.20 | 4.77 | 5.14 | 5.64 | 6.32 | 6.31 | 5.63 | 5.14 | 4.77 | 4.21 | 3.80 | 3.48 |
| | | SLS L/150 | 2.83 | 3.12 | 3.48 | 3.99 | 4.33 | 4.76 | 5.30 | 5.20 | 4.69 | 4.32 | 3.99 | 3.49 | 3.12 | 2.84 |
| | | L/200 | 2.41 | 2.67 | 3.02 | 3.48 | 3.77 | 4.12 | 4.58 | 4.47 | 4.02 | 3.69 | 3.43 | 3.01 | 2.67 | 2.41 |
| | II | ULS 2/4 | 2.95 | 3.24 | 3.63 | 4.18 | 4.58 | 5.12 | 5.92 | 6.69 | 5.79 | 5.18 | 4.73 | 4.09 | 3.66 | 3.13 |
| | | ULS 2/3 | 2.44 | 2.94 | 3.62 | 4.18 | 4.58 | 5.13 | 5.91 | 6.69 | 5.79 | 5.18 | 4.73 | 4.09 | 3.66 | 3.13 |
| | | L/100 | 3.49 | 3.80 | 4.20 | 4.77 | 5.14 | 5.64 | 6.23 | 6.31 | 5.63 | 5.14 | 4.77 | 4.21 | 3.80 | 3.48 |
| | | SLS L/150 | 2.83 | 3.12 | 3.48 | 3.96 | 4.24 | 4.61 | 5.10 | 5.20 | 4.69 | 4.32 | 3.99 | 3.49 | 3.12 | 2.84 |
| | | L/200 | 2.41 | 2.67 | 2.97 | 3.36 | 3.62 | 3.94 | 4.29 | 4.47 | 4.02 | 3.69 | 3.43 | 3.01 | 2.67 | 2.41 |
| | III | ULS 2/4 | 2.95 | 3.24 | 3.63 | 4.18 | 4.58 | 5.12 | 5.92 | 6.69 | 5.79 | 5.18 | 4.73 | 4.09 | 3.66 | 3.13 |
| | | ULS 2/3 | 2.36 | 2.88 | 3.62 | 4.18 | 4.58 | 5.13 | 5.91 | 6.69 | 5.79 | 5.18 | 4.73 | 4.09 | 3.66 | 3.13 |
| | | L/100 | 3.49 | 3.80 | 4.20 | 4.70 | 5.01 | 5.41 | 5.96 | 6.31 | 5.63 | 5.14 | 4.77 | 4.21 | 3.80 | 3.48 |
| | | SLS L/150 | 2.81 | 3.05 | 3.36 | 3.77 | 4.03 | 4.29 | 4.58 | 5.20 | 4.69 | 4.32 | 3.99 | 3.49 | 3.12 | 2.84 |
| | | L/200 | 2.32 | 2.53 | 2.80 | 3.09 | 3.25 | 3.44 | 3.66 | 4.47 | 4.02 | 3.69 | 3.43 | 3.01 | 2.67 | 2.41 |

• **Maximum allowed span for uniform (wind) characteristic load [kN/m²] Ruukki SP2B60PU/PIR**

Table 3

External facing thickness: 0.50 mm
 Internal facing thickness: 0.40 mm
 External temperature: +55 °C; +65 °C; +80 °C/-20 °C (summer/winter)
 Internal temperature: +20 °C/+20 °C (summer/winter)
 Min. end support width: 40 mm
 Min. intermediate support width: 60 mm
 Min. number of fasteners at end support: 2 or 3
 Min. number of fasteners at intermediate support: 3 or 4

ULS – Ultimate Limit State
 ULS 3/0 – Ultimate Limit State; 3 fasteners at the end support
 ULS 2/0 – Ultimate Limit State; 2 fasteners at the end support
 ULS 2/4 – Ultimate Limit State; 2 fasteners at the end support / 4 fasteners at intermediate support
 ULS 2/3 – Ultimate Limit State; 2 fasteners at the end support / 3 fasteners at intermediate support
 SLS – Serviceability Limit State

| Static scheme | Colour group | Criterion | Characteristic load [kN/m ²] | | | | | | | | | | | | | |
|--------------------|--------------|-----------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | -1.2 | -1.0 | -0.8 | -0.6 | -0.5 | -0.4 | -0.3 | 0.3 | 0.4 | 0.5 | 0.6 | 0.8 | 1.0 | 1.2 |
| Single-span system | I | ULS 3/0 | 3.69 | 4.05 | 4.53 | 5.23 | 5.72 | 6.40 | 7.39 | 8.35 | 7.24 | 6.47 | 5.91 | 5.12 | 4.58 | 4.18 |
| | | ULS 2/0 | 3.40 | 4.05 | 4.53 | 5.23 | 5.72 | 6.40 | 7.39 | 8.35 | 7.24 | 6.47 | 5.91 | 5.12 | 4.58 | 4.18 |
| | | L/100 | 3.99 | 4.31 | 4.72 | 5.22 | 5.55 | 5.97 | 6.54 | 6.33 | 5.85 | 5.45 | 5.13 | 4.64 | 4.29 | 3.99 |
| | | SLS L/150 | 3.30 | 3.54 | 3.85 | 4.27 | 4.54 | 4.84 | 5.15 | 4.83 | 4.56 | 4.33 | 4.15 | 3.77 | 3.47 | 3.23 |
| | | L/200 | 2.81 | 3.02 | 3.29 | 3.61 | 3.78 | 3.97 | 4.21 | 3.89 | 3.69 | 3.54 | 3.39 | 3.16 | 2.94 | 2.74 |
| | | ULS 3/0 | 3.69 | 4.05 | 4.53 | 5.23 | 5.72 | 6.40 | 7.39 | 8.35 | 7.24 | 6.47 | 5.91 | 5.12 | 4.58 | 4.18 |
| | II | ULS 2/0 | 3.40 | 4.05 | 4.53 | 5.23 | 5.72 | 6.40 | 7.39 | 8.35 | 7.24 | 6.47 | 5.91 | 5.12 | 4.58 | 4.18 |
| | | L/100 | 3.94 | 4.22 | 4.56 | 5.03 | 5.33 | 5.66 | 6.02 | 6.33 | 5.85 | 5.44 | 5.13 | 4.65 | 4.28 | 3.99 |
| | | SLS L/150 | 3.17 | 3.40 | 3.68 | 3.94 | 4.10 | 4.29 | 4.52 | 4.83 | 4.55 | 4.33 | 4.15 | 3.76 | 3.47 | 3.23 |
| | | L/200 | 2.67 | 2.83 | 2.99 | 3.19 | 3.31 | 3.44 | 3.61 | 3.89 | 3.70 | 3.54 | 3.39 | 3.16 | 2.94 | 2.74 |
| | | ULS 3/0 | 3.69 | 4.05 | 4.53 | 5.23 | 5.72 | 6.40 | 7.39 | 8.35 | 7.24 | 6.47 | 5.91 | 5.12 | 4.58 | 4.18 |
| | | ULS 2/0 | 3.40 | 4.05 | 4.53 | 5.23 | 5.72 | 6.40 | 7.39 | 8.35 | 7.24 | 6.47 | 5.91 | 5.12 | 4.58 | 4.18 |
| III | L/100 | 3.77 | 4.01 | 4.27 | 4.55 | 4.73 | 4.93 | 5.18 | 6.33 | 5.85 | 5.45 | 5.13 | 4.64 | 4.29 | 3.99 | |
| | SLS L/150 | 2.90 | 3.04 | 3.19 | 3.37 | 3.48 | 3.60 | 3.75 | 4.39 | 4.39 | 4.33 | 4.15 | 3.77 | 3.47 | 3.24 | |
| | L/200 | 2.32 | 2.42 | 2.53 | 2.67 | 2.74 | 2.82 | 2.92 | 3.29 | 3.29 | 3.29 | 3.29 | 3.16 | 2.94 | 2.74 | |
| | ULS 2/4 | 2.87 | 3.44 | 4.27 | 5.23 | 5.72 | 6.40 | 7.39 | 7.71 | 6.74 | 6.08 | 5.60 | 4.92 | 4.46 | 3.94 | |
| | ULS 2/3 | 2.07 | 2.47 | 3.10 | 4.18 | 5.02 | 6.35 | 7.39 | 7.71 | 6.74 | 6.08 | 5.60 | 4.92 | 4.46 | 3.94 | |
| | L/100 | 4.95 | 5.42 | 6.00 | 6.79 | 7.33 | 8.02 | 8.99 | 8.99 | 8.03 | 7.33 | 6.79 | 6.00 | 5.42 | 4.96 | |
| Double-span system | I | SLS L/150 | 4.02 | 4.43 | 4.96 | 5.70 | 6.17 | 6.79 | 7.65 | 7.65 | 6.79 | 6.17 | 5.69 | 4.96 | 4.43 | 4.03 |
| | | L/200 | 3.42 | 3.80 | 4.28 | 4.97 | 5.42 | 6.00 | 6.79 | 6.73 | 6.00 | 5.42 | 4.96 | 4.29 | 3.80 | 3.42 |
| | | ULS 2/4 | 2.76 | 3.29 | 4.16 | 5.23 | 5.72 | 6.40 | 7.39 | 7.71 | 6.74 | 6.08 | 5.60 | 4.92 | 4.46 | 3.94 |
| | | ULS 2/3 | 1.96 | 2.34 | 2.95 | 3.96 | 4.84 | 6.17 | 7.39 | 7.71 | 6.74 | 6.08 | 5.60 | 4.92 | 4.46 | 3.94 |
| | | L/100 | 4.95 | 5.42 | 6.00 | 6.79 | 7.33 | 8.02 | 8.99 | 8.99 | 8.02 | 7.33 | 6.79 | 6.00 | 5.42 | 4.96 |
| | | SLS L/150 | 4.02 | 4.43 | 4.96 | 5.70 | 6.17 | 6.79 | 7.65 | 7.65 | 6.79 | 6.17 | 5.69 | 4.96 | 4.43 | 4.03 |
| | II | L/200 | 3.42 | 3.80 | 4.28 | 4.97 | 5.42 | 5.93 | 6.62 | 6.73 | 6.00 | 5.42 | 4.96 | 4.28 | 3.80 | 3.42 |
| | | ULS 2/4 | 2.57 | 3.11 | 3.96 | 4.94 | 5.30 | 5.79 | 6.50 | 7.71 | 6.74 | 6.08 | 5.60 | 4.92 | 4.46 | 3.94 |
| | | ULS 2/3 | 1.78 | 2.13 | 2.66 | 3.68 | 4.55 | 5.79 | 6.51 | 7.71 | 6.74 | 6.08 | 5.60 | 4.92 | 4.46 | 3.94 |
| | | L/100 | 4.95 | 5.42 | 6.00 | 6.79 | 7.33 | 8.02 | 8.98 | 8.99 | 8.02 | 7.33 | 6.79 | 6.00 | 5.42 | 4.96 |
| | | SLS L/150 | 4.02 | 4.43 | 4.96 | 5.65 | 6.08 | 6.62 | 7.35 | 7.65 | 6.79 | 6.17 | 5.69 | 4.96 | 4.43 | 4.02 |
| | | L/200 | 3.42 | 3.78 | 4.20 | 4.78 | 5.16 | 5.64 | 6.27 | 6.74 | 6.00 | 5.42 | 4.96 | 4.28 | 3.80 | 3.42 |
| Multi-span system | I | ULS 2/4 | 3.36 | 4.00 | 4.53 | 5.23 | 5.72 | 6.40 | 7.39 | 8.36 | 7.24 | 6.47 | 5.91 | 5.12 | 4.58 | 3.94 |
| | | ULS 2/3 | 2.45 | 2.96 | 3.73 | 4.98 | 5.72 | 6.40 | 7.39 | 8.36 | 7.24 | 6.47 | 5.91 | 5.12 | 4.58 | 3.94 |
| | | L/100 | 4.73 | 5.15 | 5.68 | 6.41 | 6.90 | 7.54 | 8.43 | 8.42 | 7.54 | 6.90 | 6.41 | 5.67 | 5.15 | 4.73 |
| | | SLS L/150 | 3.89 | 4.26 | 4.74 | 5.40 | 5.83 | 6.41 | 7.19 | 7.10 | 6.41 | 5.84 | 5.39 | 4.74 | 4.26 | 3.89 |
| | | L/200 | 3.34 | 3.69 | 4.13 | 4.74 | 5.14 | 5.66 | 6.29 | 6.15 | 5.55 | 5.10 | 4.74 | 4.13 | 3.68 | 3.34 |
| | | ULS 2/4 | 3.27 | 3.96 | 4.53 | 5.23 | 5.72 | 6.40 | 7.39 | 8.36 | 7.24 | 6.47 | 5.91 | 5.12 | 4.58 | 3.94 |
| | II | ULS 2/3 | 2.39 | 2.89 | 3.67 | 4.91 | 5.72 | 6.40 | 7.39 | 8.36 | 7.24 | 6.47 | 5.91 | 5.12 | 4.58 | 3.94 |
| | | L/100 | 4.73 | 5.15 | 5.68 | 6.41 | 6.90 | 7.54 | 8.43 | 8.42 | 7.54 | 6.90 | 6.41 | 5.68 | 5.14 | 4.74 |
| | | SLS L/150 | 3.89 | 4.26 | 4.74 | 5.40 | 5.82 | 6.31 | 6.98 | 7.10 | 6.41 | 5.83 | 5.39 | 4.74 | 4.26 | 3.90 |
| | | L/200 | 3.34 | 3.69 | 4.13 | 4.67 | 5.02 | 5.44 | 6.03 | 6.15 | 5.55 | 5.10 | 4.74 | 4.13 | 3.68 | 3.34 |
| | | ULS 2/4 | 3.20 | 3.88 | 4.53 | 5.23 | 5.72 | 6.40 | 7.39 | 8.36 | 7.24 | 6.47 | 5.91 | 5.12 | 4.58 | 3.94 |
| | | ULS 2/3 | 2.26 | 2.76 | 3.52 | 4.81 | 5.72 | 6.40 | 7.39 | 8.36 | 7.24 | 6.47 | 5.91 | 5.12 | 4.58 | 3.94 |
| III | L/100 | 4.73 | 5.15 | 5.68 | 6.41 | 6.85 | 7.39 | 8.13 | 8.42 | 7.54 | 6.90 | 6.41 | 5.67 | 5.15 | 4.74 | |
| | SLS L/150 | 3.89 | 4.26 | 4.67 | 5.22 | 5.58 | 6.02 | 6.54 | 7.10 | 6.41 | 5.83 | 5.39 | 4.74 | 4.26 | 3.90 | |
| | L/200 | 3.29 | 3.58 | 3.95 | 4.43 | 4.70 | 4.98 | 5.32 | 6.16 | 5.55 | 5.10 | 4.74 | 4.13 | 3.68 | 3.34 | |

● **Maximum allowed span for uniform (wind) characteristic load [kN/m²] Ruukki SP2B80PU/PIR**

Table 4

External facing thickness: 0.50 mm
 Internal facing thickness: 0.40 mm
 External temperature: +55 °C; +65 °C; +80 °C/-20 °C (summer/winter)
 Internal temperature: +20 °C/+20 °C (summer/winter)
 Min. end support width: 40 mm
 Min. intermediate support width: 60 mm
 Min. number of fasteners at end support: 2 or 3
 Min. number of fasteners at intermediate support: 3 or 4

ULS – Ultimate Limit State
 ULS 3/0 – Ultimate Limit State; 3 fasteners at the end support
 ULS 2/0 – Ultimate Limit State; 2 fasteners at the end support
 ULS 2/4 – Ultimate Limit State; 2 fasteners at the end support / 4 fasteners at intermediate support
 ULS 2/3 – Ultimate Limit State; 2 fasteners at the end support / 3 fasteners at intermediate support
 SLS – Serviceability Limit State

| Static scheme | Colour group | Criterion | Characteristic load [kN/m ²] | | | | | | | | | | | | | |
|--------------------|--------------|-----------|--|------|------|------|------|------|-------|-------|------|------|------|------|------|------|
| | | | -1.2 | -1.0 | -0.8 | -0.6 | -0.5 | -0.4 | -0.3 | 0.3 | 0.4 | 0.5 | 0.6 | 0.8 | 1.0 | 1.2 |
| Single-span system | I | ULS 3/0 | 4.28 | 4.69 | 5.24 | 6.05 | 6.63 | 7.41 | 8.56 | 9.67 | 8.38 | 7.49 | 6.84 | 5.92 | 5.30 | 4.83 |
| | | ULS 2/0 | 3.40 | 4.08 | 5.09 | 6.05 | 6.63 | 7.41 | 8.56 | 9.67 | 8.38 | 7.49 | 6.84 | 5.92 | 5.30 | 4.83 |
| | | L/100 | 4.92 | 5.31 | 5.81 | 6.48 | 6.88 | 7.40 | 8.12 | 7.95 | 7.26 | 6.77 | 6.37 | 5.77 | 5.31 | 4.92 |
| | | SLS L/150 | 4.13 | 4.43 | 4.82 | 5.33 | 5.67 | 6.10 | 6.57 | 6.19 | 5.82 | 5.53 | 5.21 | 4.72 | 4.35 | 4.06 |
| | | L/200 | 3.54 | 3.80 | 4.14 | 4.59 | 4.83 | 5.10 | 5.42 | 5.04 | 4.77 | 4.55 | 4.36 | 4.04 | 3.71 | 3.46 |
| | II | ULS 3/0 | 4.28 | 4.69 | 5.24 | 6.05 | 6.63 | 7.41 | 8.56 | 9.67 | 8.38 | 7.49 | 6.84 | 5.92 | 5.30 | 4.83 |
| | | ULS 2/0 | 3.40 | 4.08 | 5.09 | 6.05 | 6.63 | 7.41 | 8.56 | 9.67 | 8.38 | 7.49 | 6.84 | 5.92 | 5.30 | 4.83 |
| | | L/100 | 4.92 | 5.25 | 5.68 | 6.25 | 6.64 | 7.12 | 7.67 | 7.94 | 7.26 | 6.76 | 6.37 | 5.77 | 5.30 | 4.92 |
| | | SLS L/150 | 3.98 | 4.26 | 4.62 | 5.04 | 5.25 | 5.52 | 5.83 | 6.19 | 5.82 | 5.53 | 5.21 | 4.72 | 4.35 | 4.06 |
| | | L/200 | 3.38 | 3.62 | 3.85 | 4.12 | 4.29 | 4.47 | 4.70 | 5.04 | 4.78 | 4.56 | 4.37 | 4.03 | 3.71 | 3.46 |
| | III | ULS 3/0 | 4.28 | 4.69 | 5.24 | 6.05 | 6.63 | 7.41 | 8.56 | 9.67 | 8.38 | 7.49 | 6.84 | 5.92 | 5.30 | 4.83 |
| | | ULS 2/0 | 3.40 | 4.08 | 5.09 | 6.05 | 6.63 | 7.41 | 8.56 | 9.67 | 8.38 | 7.49 | 6.84 | 5.92 | 5.30 | 4.83 |
| | | L/100 | 4.72 | 5.03 | 5.41 | 5.83 | 6.06 | 6.34 | 6.69 | 7.95 | 7.26 | 6.77 | 6.36 | 5.77 | 5.31 | 4.92 |
| | | SLS L/150 | 3.74 | 3.92 | 4.12 | 4.37 | 4.52 | 4.70 | 4.91 | 5.89 | 5.82 | 5.53 | 5.21 | 4.72 | 4.35 | 4.06 |
| | | L/200 | 3.02 | 3.16 | 3.31 | 3.49 | 3.59 | 3.71 | 3.85 | 4.42 | 4.42 | 4.41 | 4.37 | 4.04 | 3.71 | 3.46 |
| Double-span system | I | ULS 2/4 | 2.81 | 3.37 | 4.23 | 5.64 | 6.63 | 7.41 | 8.55 | 8.93 | 7.80 | 7.04 | 6.48 | 5.70 | 5.17 | 4.38 |
| | | ULS 2/3 | 2.02 | 2.40 | 3.00 | 4.05 | 4.92 | 6.19 | 8.42 | 8.93 | 7.80 | 7.04 | 6.48 | 5.70 | 5.17 | 4.38 |
| | | L/100 | 6.16 | 6.71 | 7.41 | 8.36 | 9.01 | 9.85 | 11.02 | 11.02 | 9.85 | 9.01 | 8.36 | 7.41 | 6.71 | 6.17 |
| | | SLS L/150 | 5.04 | 5.53 | 6.17 | 7.03 | 7.62 | 8.36 | 9.40 | 9.40 | 8.37 | 7.61 | 7.03 | 6.17 | 5.53 | 5.05 |
| | | L/200 | 4.31 | 4.77 | 5.35 | 6.17 | 6.71 | 7.40 | 8.36 | 8.36 | 7.40 | 6.71 | 6.17 | 5.35 | 4.77 | 4.31 |
| | II | ULS 2/4 | 2.69 | 3.23 | 4.03 | 5.47 | 6.63 | 7.41 | 8.56 | 8.93 | 7.80 | 7.04 | 6.48 | 5.70 | 5.17 | 4.38 |
| | | ULS 2/3 | 1.89 | 2.24 | 2.81 | 3.77 | 4.63 | 5.94 | 8.18 | 8.93 | 7.80 | 7.04 | 6.48 | 5.70 | 5.17 | 4.38 |
| | | L/100 | 6.16 | 6.71 | 7.41 | 8.36 | 9.01 | 9.85 | 11.02 | 11.02 | 9.85 | 9.01 | 8.36 | 7.41 | 6.71 | 6.17 |
| | | SLS L/150 | 5.04 | 5.53 | 6.17 | 7.03 | 7.62 | 8.37 | 9.40 | 9.40 | 8.37 | 7.61 | 7.03 | 6.17 | 5.53 | 5.04 |
| | | L/200 | 4.31 | 4.77 | 5.35 | 6.17 | 6.71 | 7.40 | 8.27 | 8.36 | 7.40 | 6.71 | 6.17 | 5.35 | 4.77 | 4.31 |
| | III | ULS 2/4 | 2.49 | 2.96 | 3.77 | 5.21 | 5.79 | 6.29 | 7.03 | 8.93 | 7.80 | 7.04 | 6.48 | 5.70 | 5.17 | 4.38 |
| | | ULS 2/3 | 1.70 | 2.00 | 2.50 | 3.39 | 4.22 | 5.53 | 7.03 | 8.93 | 7.80 | 7.04 | 6.48 | 5.70 | 5.17 | 4.38 |
| | | L/100 | 6.16 | 6.71 | 7.41 | 8.36 | 9.01 | 9.85 | 11.02 | 11.01 | 9.85 | 9.01 | 8.36 | 7.41 | 6.71 | 6.17 |
| | | SLS L/150 | 5.04 | 5.53 | 6.17 | 7.03 | 7.61 | 8.27 | 9.18 | 9.40 | 8.36 | 7.61 | 7.03 | 6.17 | 5.53 | 5.04 |
| | | L/200 | 4.31 | 4.77 | 5.34 | 6.04 | 6.51 | 7.10 | 7.90 | 8.36 | 7.41 | 6.71 | 6.17 | 5.35 | 4.76 | 4.31 |
| Multi-span system | I | ULS 2/4 | 3.31 | 4.00 | 4.99 | 6.05 | 6.63 | 7.41 | 8.56 | 9.67 | 8.38 | 7.49 | 6.84 | 5.92 | 5.26 | 4.38 |
| | | ULS 2/3 | 2.40 | 2.90 | 3.67 | 4.96 | 6.00 | 7.41 | 8.56 | 9.67 | 8.38 | 7.49 | 6.84 | 5.92 | 5.26 | 4.38 |
| | | L/100 | 5.87 | 6.36 | 7.00 | 7.88 | 8.47 | 9.24 | 10.31 | 10.31 | 9.24 | 8.47 | 7.88 | 7.00 | 6.36 | 5.87 |
| | | SLS L/150 | 4.85 | 5.29 | 5.87 | 6.66 | 7.19 | 7.88 | 8.83 | 8.81 | 7.88 | 7.19 | 6.66 | 5.87 | 5.29 | 4.85 |
| | | L/200 | 4.19 | 4.60 | 5.14 | 5.87 | 6.36 | 7.00 | 7.82 | 7.67 | 6.93 | 6.36 | 5.87 | 5.14 | 4.60 | 4.19 |
| | II | ULS 2/4 | 3.25 | 3.90 | 4.92 | 6.05 | 6.63 | 7.41 | 8.56 | 9.67 | 8.38 | 7.49 | 6.84 | 5.92 | 5.26 | 4.38 |
| | | ULS 2/3 | 2.32 | 2.82 | 3.58 | 4.82 | 5.85 | 7.40 | 8.56 | 9.67 | 8.38 | 7.49 | 6.84 | 5.92 | 5.26 | 4.38 |
| | | L/100 | 5.87 | 6.36 | 7.00 | 7.88 | 8.47 | 9.24 | 10.31 | 10.31 | 9.24 | 8.47 | 7.87 | 7.00 | 6.36 | 5.87 |
| | | SLS L/150 | 4.85 | 5.29 | 5.87 | 6.66 | 7.19 | 7.85 | 8.68 | 8.81 | 7.87 | 7.19 | 6.65 | 5.87 | 5.29 | 4.85 |
| | | L/200 | 4.19 | 4.60 | 5.14 | 5.86 | 6.28 | 6.81 | 7.53 | 7.67 | 6.93 | 6.36 | 5.87 | 5.14 | 4.60 | 4.19 |
| | III | ULS 2/4 | 3.12 | 3.79 | 4.82 | 6.05 | 6.63 | 7.41 | 8.56 | 9.67 | 8.38 | 7.49 | 6.84 | 5.92 | 5.26 | 4.38 |
| | | ULS 2/3 | 2.19 | 2.65 | 3.40 | 4.67 | 5.71 | 7.26 | 8.56 | 9.67 | 8.38 | 7.49 | 6.84 | 5.92 | 5.26 | 4.38 |
| | | L/100 | 5.87 | 6.36 | 7.00 | 7.88 | 8.47 | 9.17 | 10.09 | 10.31 | 9.24 | 8.47 | 7.88 | 7.00 | 6.36 | 5.87 |
| | | SLS L/150 | 4.85 | 5.29 | 5.85 | 6.53 | 6.97 | 7.53 | 8.28 | 8.81 | 7.88 | 7.19 | 6.65 | 5.87 | 5.29 | 4.85 |
| | | L/200 | 4.18 | 4.54 | 4.99 | 5.58 | 5.97 | 6.40 | 6.86 | 7.67 | 6.93 | 6.36 | 5.87 | 5.14 | 4.60 | 4.19 |

● **Maximum allowed span for uniform (wind) characteristic load [kN/m²] Ruukki SP2B100PU/PIR**

Table 5

External facing thickness: 0.50 mm
 Internal facing thickness: 0.40 mm
 External temperature: +55 °C; +65 °C; +80 °C/-20 °C (summer/winter)
 Internal temperature: +20 °C/+20 °C (summer/winter)
 Min. end support width: 40 mm
 Min. intermediate support width: 60 mm
 Min. number of fasteners at end support: 2 or 3
 Min. number of fasteners at intermediate support: 3 or 4

ULS – Ultimate Limit State
 ULS 3/0 – Ultimate Limit State; 3 fasteners at the end support
 ULS 2/0 – Ultimate Limit State; 2 fasteners at the end support
 ULS 2/4 – Ultimate Limit State; 2 fasteners at the end support / 4 fasteners at intermediate support
 ULS 2/3 – Ultimate Limit State; 2 fasteners at the end support / 3 fasteners at intermediate support
 SLS – Serviceability Limit State

| Static scheme | Colour group | Criterion | Characteristic load [kN/m ²] | | | | | | | | | | | | | |
|--------------------|--------------|-----------|--|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| | | | -1.2 | -1.0 | -0.8 | -0.6 | -0.5 | -0.4 | -0.3 | 0.3 | 0.4 | 0.5 | 0.6 | 0.8 | 1.0 | 1.2 |
| Single-span system | I | ULS 3/0 | 4.79 | 5.25 | 5.87 | 6.78 | 7.43 | 8.30 | 9.58 | 10.83 | 9.38 | 8.39 | 7.67 | 6.63 | 5.93 | 5.42 |
| | | ULS 2/0 | 3.40 | 4.08 | 5.09 | 6.78 | 7.43 | 8.30 | 9.58 | 10.83 | 9.38 | 8.39 | 7.67 | 6.63 | 5.93 | 5.42 |
| | | L/100 | 5.77 | 6.23 | 6.80 | 7.60 | 8.11 | 8.73 | 9.57 | 9.39 | 8.58 | 7.98 | 7.51 | 6.80 | 6.22 | 5.77 |
| | | SLS L/150 | 4.86 | 5.26 | 5.71 | 6.31 | 6.71 | 7.22 | 7.91 | 7.48 | 7.02 | 6.56 | 6.18 | 5.60 | 5.17 | 4.83 |
| | | L/200 | 4.22 | 4.53 | 4.93 | 5.46 | 5.81 | 6.16 | 6.56 | 6.14 | 5.79 | 5.52 | 5.29 | 4.81 | 4.43 | 4.13 |
| | | ULS 3/0 | 4.79 | 5.25 | 5.87 | 6.78 | 7.43 | 8.30 | 9.58 | 10.83 | 9.38 | 8.39 | 7.67 | 6.63 | 5.93 | 5.42 |
| | II | ULS 2/0 | 3.40 | 4.08 | 5.09 | 6.78 | 7.43 | 8.30 | 9.58 | 10.83 | 9.38 | 8.39 | 7.67 | 6.63 | 5.93 | 5.42 |
| | | L/100 | 5.77 | 6.21 | 6.71 | 7.40 | 7.85 | 8.42 | 9.20 | 9.38 | 8.58 | 7.98 | 7.51 | 6.80 | 6.22 | 5.77 |
| | | SLS L/150 | 4.74 | 5.07 | 5.49 | 6.05 | 6.35 | 6.67 | 7.08 | 7.48 | 7.02 | 6.56 | 6.18 | 5.60 | 5.17 | 4.83 |
| | | L/200 | 4.05 | 4.34 | 4.68 | 5.01 | 5.21 | 5.45 | 5.75 | 6.14 | 5.80 | 5.52 | 5.29 | 4.81 | 4.43 | 4.13 |
| | | ULS 3/0 | 4.79 | 5.25 | 5.87 | 6.78 | 7.43 | 8.30 | 9.58 | 10.83 | 9.38 | 8.39 | 7.67 | 6.63 | 5.93 | 5.42 |
| | | ULS 2/0 | 3.40 | 4.08 | 5.09 | 6.78 | 7.43 | 8.30 | 9.58 | 10.83 | 9.38 | 8.39 | 7.67 | 6.63 | 5.93 | 5.42 |
| III | L/100 | 5.60 | 5.96 | 6.43 | 7.02 | 7.31 | 7.67 | 8.11 | 9.39 | 8.58 | 7.98 | 7.51 | 6.80 | 6.22 | 5.77 | |
| | SLS L/150 | 4.51 | 4.75 | 5.01 | 5.33 | 5.52 | 5.74 | 6.01 | 7.38 | 7.02 | 6.56 | 6.18 | 5.60 | 5.17 | 4.83 | |
| | L/200 | 3.69 | 3.86 | 4.05 | 4.28 | 4.42 | 4.57 | 4.75 | 5.54 | 5.54 | 5.52 | 5.29 | 4.81 | 4.43 | 4.13 | |
| | ULS 2/4 | 2.77 | 3.31 | 4.15 | 5.55 | 6.72 | 8.30 | 9.58 | 9.34 | 8.18 | 7.39 | 6.81 | 6.00 | 5.46 | 4.83 | |
| | ULS 2/3 | 1.99 | 2.35 | 2.92 | 3.93 | 4.78 | 6.10 | 8.25 | 9.34 | 8.18 | 7.39 | 6.81 | 6.00 | 5.46 | 4.83 | |
| | L/100 | 7.28 | 7.91 | 8.71 | 9.82 | 10.56 | 11.53 | 12.88 | 12.88 | 11.53 | 10.56 | 9.82 | 8.71 | 7.90 | 7.28 | |
| Double-span system | I | SLS L/150 | 5.99 | 6.55 | 7.28 | 8.28 | 8.95 | 9.81 | 11.01 | 11.01 | 9.82 | 8.95 | 8.28 | 7.29 | 6.55 | 5.99 |
| | | L/200 | 5.14 | 5.67 | 6.35 | 7.28 | 7.90 | 8.71 | 9.81 | 9.81 | 8.71 | 7.91 | 7.28 | 6.35 | 5.67 | 5.14 |
| | | ULS 2/4 | 2.62 | 3.14 | 3.93 | 5.33 | 6.50 | 8.28 | 9.58 | 9.34 | 8.18 | 7.39 | 6.81 | 6.00 | 5.46 | 4.83 |
| | | ULS 2/3 | 1.85 | 2.16 | 2.69 | 3.65 | 4.43 | 5.70 | 7.93 | 9.34 | 8.18 | 7.39 | 6.81 | 6.00 | 5.46 | 4.83 |
| | | L/100 | 7.28 | 7.91 | 8.71 | 9.82 | 10.56 | 11.53 | 12.88 | 12.88 | 11.53 | 10.56 | 9.82 | 8.71 | 7.90 | 7.28 |
| | | SLS L/150 | 5.99 | 6.55 | 7.29 | 8.28 | 8.95 | 9.81 | 11.01 | 11.01 | 9.82 | 8.95 | 8.28 | 7.29 | 6.55 | 5.99 |
| | II | L/200 | 5.14 | 5.67 | 6.35 | 7.29 | 7.90 | 8.71 | 9.80 | 9.81 | 8.71 | 7.91 | 7.28 | 6.35 | 5.67 | 5.14 |
| | | ULS 2/4 | 2.40 | 2.86 | 3.59 | 4.98 | 6.14 | 7.04 | 7.88 | 9.34 | 8.18 | 7.39 | 6.81 | 6.00 | 5.46 | 4.83 |
| | | ULS 2/3 | 1.64 | 1.87 | 2.30 | 3.13 | 3.89 | 5.16 | 7.41 | 9.34 | 8.18 | 7.39 | 6.81 | 6.00 | 5.46 | 4.83 |
| | | L/100 | 7.28 | 7.91 | 8.71 | 9.82 | 10.56 | 11.53 | 12.88 | 12.88 | 11.53 | 10.56 | 9.82 | 8.71 | 7.90 | 7.28 |
| | | SLS L/150 | 5.99 | 6.55 | 7.28 | 8.28 | 8.95 | 9.80 | 10.87 | 11.01 | 9.82 | 8.95 | 8.28 | 7.29 | 6.55 | 5.99 |
| | | L/200 | 5.14 | 5.67 | 6.35 | 7.22 | 7.77 | 8.46 | 9.40 | 9.81 | 8.71 | 7.91 | 7.28 | 6.35 | 5.67 | 5.14 |
| Multi-span system | I | ULS 2/4 | 3.27 | 3.96 | 4.99 | 6.65 | 7.43 | 8.30 | 9.58 | 10.76 | 9.35 | 8.39 | 7.68 | 6.65 | 5.80 | 4.83 |
| | | ULS 2/3 | 2.35 | 2.85 | 3.61 | 4.89 | 5.93 | 7.48 | 9.58 | 10.76 | 9.35 | 8.39 | 7.68 | 6.65 | 5.80 | 4.83 |
| | | L/100 | 6.91 | 7.48 | 8.21 | 9.23 | 9.92 | 10.81 | 12.05 | 12.05 | 10.81 | 9.92 | 9.23 | 8.21 | 7.48 | 6.91 |
| | | SLS L/150 | 5.74 | 6.25 | 6.91 | 7.82 | 8.44 | 9.23 | 10.33 | 10.33 | 9.23 | 8.44 | 7.82 | 6.91 | 6.25 | 5.74 |
| | | L/200 | 4.98 | 5.45 | 6.06 | 6.91 | 7.48 | 8.21 | 9.23 | 9.09 | 8.21 | 7.48 | 6.91 | 6.07 | 5.45 | 4.98 |
| | | ULS 2/4 | 3.20 | 3.88 | 4.86 | 6.57 | 7.43 | 8.30 | 9.58 | 10.76 | 9.35 | 8.39 | 7.68 | 6.65 | 5.80 | 4.83 |
| | II | ULS 2/3 | 2.25 | 2.74 | 3.50 | 4.78 | 5.75 | 7.30 | 9.58 | 10.76 | 9.35 | 8.39 | 7.68 | 6.65 | 5.80 | 4.83 |
| | | L/100 | 6.91 | 7.48 | 8.21 | 9.23 | 9.92 | 10.81 | 11.90 | 12.05 | 10.81 | 9.92 | 9.23 | 8.21 | 7.48 | 6.91 |
| | | SLS L/150 | 5.74 | 6.25 | 6.91 | 7.74 | 8.27 | 8.93 | 9.82 | 10.33 | 9.23 | 8.43 | 7.82 | 6.91 | 6.25 | 5.74 |
| | | L/200 | 4.98 | 5.44 | 5.96 | 6.66 | 7.12 | 7.69 | 8.32 | 9.08 | 8.21 | 7.48 | 6.91 | 6.07 | 5.45 | 4.98 |
| | | ULS 2/4 | 3.04 | 3.70 | 4.73 | 6.44 | 7.43 | 8.30 | 9.58 | 10.76 | 9.35 | 8.39 | 7.68 | 6.65 | 5.80 | 4.83 |
| | | ULS 2/3 | 2.10 | 2.57 | 3.28 | 4.55 | 5.57 | 7.12 | 9.58 | 10.76 | 9.35 | 8.39 | 7.68 | 6.65 | 5.80 | 4.83 |
| III | L/100 | 6.91 | 7.48 | 8.21 | 9.23 | 9.92 | 10.81 | 11.90 | 12.05 | 10.81 | 9.92 | 9.23 | 8.21 | 7.48 | 6.91 | |
| | SLS L/150 | 5.74 | 6.25 | 6.91 | 7.74 | 8.27 | 8.93 | 9.82 | 10.33 | 9.23 | 8.43 | 7.82 | 6.91 | 6.25 | 5.74 | |
| | L/200 | 4.98 | 5.44 | 5.96 | 6.66 | 7.12 | 7.69 | 8.32 | 9.08 | 8.21 | 7.48 | 6.91 | 6.07 | 5.45 | 4.98 | |
| | ULS 2/4 | 3.04 | 3.70 | 4.73 | 6.44 | 7.43 | 8.30 | 9.58 | 10.76 | 9.35 | 8.39 | 7.68 | 6.65 | 5.80 | 4.83 | |

● **Maximum allowed span for uniform (wind) characteristic load [kN/m²] Ruukki SP2B100PU/PIR (Cold stores)**

Table 6

External facing thickness: 0.50 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55 °C; +65 °C; +80 °C/-20 °C (summer/winter)
 Internal temperature: 0 °C (summer/winter)
 Min. end support width: 40 mm
 Min. intermediate support width: 60 mm
 Min. number of fasteners at end support: 2 or 3
 Min. number of fasteners at intermediate support: 3 or 4

ULS – Ultimate Limit State
 ULS 3/0 – Ultimate Limit State; 3 fasteners at the end support
 ULS 2/0 – Ultimate Limit State; 2 fasteners at the end support
 ULS 2/4 – Ultimate Limit State; 2 fasteners at the end support / 4 fasteners at intermediate support
 ULS 2/3 – Ultimate Limit State; 2 fasteners at the end support / 3 fasteners at intermediate support
 SLS – Serviceability Limit State

| Static scheme | Colour group | Criterion | Characteristic load [kN/m ²] | | | | | | | | | | | | | |
|--------------------|--------------|-----------|--|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| | | | -1.2 | -1.0 | -0.8 | -0.6 | -0.5 | -0.4 | -0.3 | 0.3 | 0.4 | 0.5 | 0.6 | 0.8 | 1.0 | 1.2 |
| Single-span system | I | ULS 3/0 | 5.09 | 5.59 | 6.26 | 7.22 | 7.91 | 8.84 | 10.21 | 10.83 | 9.38 | 8.39 | 7.66 | 6.63 | 5.94 | 5.42 |
| | | ULS 2/0 | 3.40 | 4.08 | 5.09 | 6.78 | 7.91 | 8.84 | 10.21 | 10.83 | 9.38 | 8.39 | 7.66 | 6.63 | 5.94 | 5.42 |
| | | L/100 | 5.83 | 6.23 | 6.71 | 7.37 | 7.74 | 8.13 | 8.62 | 10.19 | 9.17 | 8.43 | 7.87 | 7.04 | 6.43 | 5.97 |
| | | SLS L/150 | 4.70 | 5.02 | 5.30 | 5.66 | 5.87 | 6.12 | 6.42 | 8.05 | 7.87 | 7.21 | 6.71 | 5.97 | 5.43 | 5.02 |
| | | L/200 | 3.90 | 4.09 | 4.31 | 4.57 | 4.72 | 4.90 | 5.10 | 6.04 | 6.04 | 6.04 | 5.97 | 5.28 | 4.78 | 4.40 |
| | II | ULS 3/0 | 5.09 | 5.59 | 6.26 | 7.22 | 7.91 | 8.84 | 10.21 | 10.83 | 9.38 | 8.39 | 7.66 | 6.63 | 5.94 | 5.42 |
| | | ULS 2/0 | 3.40 | 4.08 | 5.09 | 6.78 | 7.91 | 8.84 | 10.21 | 10.83 | 9.38 | 8.39 | 7.66 | 6.63 | 5.94 | 5.42 |
| | | L/100 | 5.68 | 6.05 | 6.48 | 6.92 | 7.19 | 7.51 | 7.90 | 10.19 | 9.17 | 8.43 | 7.87 | 7.04 | 6.43 | 5.97 |
| | | SLS L/150 | 4.45 | 4.65 | 4.88 | 5.17 | 5.34 | 5.53 | 5.75 | 6.81 | 6.81 | 6.81 | 6.71 | 5.97 | 5.43 | 5.02 |
| | | L/200 | 3.58 | 3.74 | 3.90 | 4.11 | 4.22 | 4.35 | 4.51 | 5.11 | 5.11 | 5.11 | 5.11 | 5.11 | 4.78 | 4.40 |
| Double-span system | I | ULS 2/4 | 2.42 | 2.86 | 3.60 | 4.97 | 5.38 | 5.73 | 6.24 | 10.69 | 9.33 | 8.39 | 7.66 | 6.63 | 5.78 | 4.82 |
| | | ULS 2/3 | 1.67 | 1.95 | 2.37 | 3.14 | 3.89 | 5.12 | 6.23 | 10.69 | 9.33 | 8.39 | 7.66 | 6.63 | 5.78 | 4.82 |
| | | L/100 | 7.51 | 8.16 | 8.99 | 10.15 | 10.93 | 11.94 | 13.34 | 13.35 | 11.94 | 10.93 | 10.15 | 8.99 | 8.16 | 7.51 |
| | | SLS L/150 | 6.15 | 6.74 | 7.51 | 8.55 | 9.25 | 10.15 | 11.32 | 11.40 | 10.15 | 9.24 | 8.55 | 7.51 | 6.74 | 6.15 |
| | | L/200 | 5.27 | 5.82 | 6.53 | 7.49 | 8.07 | 8.80 | 9.80 | 10.15 | 9.00 | 8.16 | 7.51 | 6.53 | 5.82 | 5.27 |
| | II | ULS 2/4 | 2.24 | 2.65 | 3.36 | 4.16 | 4.30 | 4.47 | 4.68 | 6.34 | 6.34 | 6.34 | 6.34 | 6.34 | 5.79 | 4.82 |
| | | ULS 2/3 | 1.43 | 1.57 | 1.79 | 2.21 | 2.64 | 4.46 | 4.68 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 5.79 | 4.82 |
| | | L/100 | 7.51 | 8.16 | 8.99 | 10.15 | 10.93 | 11.94 | 13.34 | 13.34 | 11.94 | 10.93 | 10.15 | 9.00 | 8.16 | 7.51 |
| | | SLS L/150 | 6.15 | 6.74 | 7.51 | 8.55 | 9.18 | 9.98 | 11.06 | 11.40 | 10.15 | 9.24 | 8.55 | 7.51 | 6.74 | 6.15 |
| | | L/200 | 5.27 | 5.82 | 6.46 | 7.30 | 7.86 | 8.56 | 9.51 | 10.15 | 8.99 | 8.16 | 7.51 | 6.53 | 5.82 | 5.27 |
| Multi-span system | I | ULS 2/4 | 3.03 | 3.69 | 4.71 | 6.34 | 6.86 | 7.56 | 8.62 | 10.83 | 9.38 | 8.39 | 7.66 | 6.63 | 5.78 | 4.82 |
| | | ULS 2/3 | 2.10 | 2.53 | 3.26 | 4.52 | 5.54 | 7.09 | 8.61 | 10.83 | 9.38 | 8.39 | 7.66 | 6.63 | 5.78 | 4.82 |
| | | L/100 | 7.13 | 7.73 | 8.49 | 9.55 | 10.27 | 11.19 | 12.41 | 12.49 | 11.20 | 10.27 | 9.55 | 8.49 | 7.72 | 7.13 |
| | | SLS L/150 | 5.91 | 6.44 | 7.13 | 8.06 | 8.61 | 9.31 | 10.26 | 10.70 | 9.55 | 8.72 | 8.08 | 7.13 | 6.44 | 5.91 |
| | | L/200 | 5.11 | 5.61 | 6.20 | 6.93 | 7.42 | 8.03 | 8.80 | 9.55 | 8.49 | 7.72 | 7.13 | 6.25 | 5.62 | 5.11 |
| | II | ULS 2/4 | 2.93 | 3.60 | 4.53 | 5.00 | 5.34 | 5.79 | 6.45 | 10.83 | 9.38 | 8.39 | 7.66 | 6.63 | 5.78 | 4.82 |
| | | ULS 2/3 | 1.95 | 2.40 | 3.12 | 4.37 | 5.34 | 5.79 | 6.45 | 10.83 | 9.38 | 8.39 | 7.66 | 6.63 | 5.78 | 4.82 |
| | | L/100 | 7.13 | 7.73 | 8.49 | 9.55 | 10.24 | 11.05 | 12.15 | 12.49 | 11.2 | 10.27 | 9.55 | 8.49 | 7.72 | 7.13 |
| | | SLS L/150 | 5.91 | 6.44 | 7.06 | 7.87 | 8.39 | 9.06 | 9.93 | 10.70 | 9.55 | 8.72 | 8.08 | 7.13 | 6.44 | 5.91 |
| | | L/200 | 5.07 | 5.50 | 6.03 | 6.72 | 7.18 | 7.62 | 8.15 | 9.55 | 8.49 | 7.72 | 7.13 | 6.25 | 5.62 | 5.11 |

● **Maximum allowed span for uniform (wind) characteristic load [kN/m²] Ruukki SP2D60PU/PIR**

Table 7

External facing thickness: 0.50 mm
 Internal facing thickness: 0.40 mm
 External temperature: +55 °C; +65 °C; +80 °C/-20 °C (summer/winter)
 Internal temperature: +20 °C/+20 °C (summer/winter)
 Min. end support width: 40 mm
 Min. intermediate support width: 60 mm
 Min. number of fasteners at end support: 1 *
 Min. number of fasteners at intermediate support: 1*

* – 1 set includes 1 pc. of L16 fastener and 2 pcs. of L01 or L02 fasteners
 ULS – Ultimate Limit State
 SLS – Serviceability Limit State
 ULS 1 – Ultimate Limit State for external facing thickness 0,55 mm
 ULS 2 – Ultimate Limit State for external facing thickness 0,50 mm

| Static scheme | Colour group | Criterion | Characteristic load [kN/m ²] | | | | | | | | | | | | | |
|--------------------|--------------|-----------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | -1.2 | -1.0 | -0.8 | -0.6 | -0.5 | -0.4 | -0.3 | 0.3 | 0.4 | 0.5 | 0.6 | 0.8 | 1.0 | 1.2 |
| Single-span system | I | ULS 1 | 3.71 | 4.06 | 4.54 | 5.24 | 5.74 | 6.42 | 7.41 | 7.97 | 6.90 | 6.17 | 5.64 | 4.88 | 4.37 | 3.99 |
| | | ULS 2 | 3.72 | 4.07 | 4.56 | 5.26 | 5.76 | 6.44 | 7.44 | 7.59 | 6.58 | 5.88 | 5.37 | 4.65 | 4.16 | 3.80 |
| | | L/100 | 4.00 | 4.33 | 4.74 | 5.25 | 5.58 | 6.00 | 6.58 | 6.38 | 5.87 | 5.47 | 5.15 | 4.67 | 4.31 | 4.01 |
| | | SLS L/150 | 3.32 | 3.57 | 3.88 | 4.29 | 4.57 | 4.87 | 5.19 | 4.87 | 4.59 | 4.37 | 4.18 | 3.79 | 3.49 | 3.25 |
| | | L/200 | 2.82 | 3.04 | 3.31 | 3.64 | 3.81 | 4.00 | 4.24 | 3.92 | 3.73 | 3.56 | 3.42 | 3.19 | 2.96 | 2.76 |
| | II | ULS 1 | 3.71 | 4.06 | 4.54 | 5.24 | 5.74 | 6.42 | 7.41 | 7.97 | 6.90 | 6.17 | 5.64 | 4.88 | 4.37 | 3.99 |
| | | ULS 2 | 3.72 | 4.07 | 4.56 | 5.26 | 5.76 | 6.44 | 7.44 | 7.59 | 6.58 | 5.88 | 5.37 | 4.65 | 4.16 | 3.80 |
| | | L/100 | 3.97 | 4.24 | 4.59 | 5.06 | 5.36 | 5.70 | 6.07 | 6.38 | 5.87 | 5.47 | 5.15 | 4.67 | 4.31 | 4.01 |
| | | SLS L/150 | 3.19 | 3.42 | 3.70 | 3.97 | 4.13 | 4.33 | 4.56 | 4.87 | 4.59 | 4.37 | 4.18 | 3.79 | 3.49 | 3.25 |
| | | L/200 | 2.68 | 2.85 | 3.01 | 3.22 | 3.34 | 3.47 | 3.64 | 3.92 | 3.73 | 3.56 | 3.42 | 3.19 | 2.96 | 2.75 |
| | III | ULS 1 | 3.71 | 4.06 | 4.54 | 5.24 | 5.74 | 6.42 | 7.41 | 7.97 | 6.90 | 6.17 | 5.64 | 4.88 | 4.37 | 3.99 |
| | | ULS 2 | 3.72 | 4.07 | 4.56 | 5.26 | 5.76 | 6.44 | 7.44 | 7.59 | 6.58 | 5.88 | 5.37 | 4.65 | 4.16 | 3.80 |
| | | L/100 | 3.78 | 4.04 | 4.30 | 4.59 | 4.77 | 4.97 | 5.22 | 6.38 | 5.88 | 5.47 | 5.15 | 4.66 | 4.31 | 4.01 |
| | | SLS L/150 | 2.93 | 3.06 | 3.22 | 3.40 | 3.51 | 3.64 | 3.78 | 4.44 | 4.44 | 4.36 | 4.18 | 3.79 | 3.49 | 3.26 |
| | | L/200 | 2.34 | 2.44 | 2.56 | 2.69 | 2.77 | 2.85 | 2.95 | 3.33 | 3.33 | 3.33 | 3.33 | 3.19 | 2.96 | 2.76 |
| Double-span system | I | ULS 1 | 3.71 | 4.06 | 4.54 | 5.24 | 5.74 | 6.42 | 7.41 | 7.85 | 6.86 | 6.17 | 5.64 | 4.88 | 4.37 | 3.95 |
| | | ULS 2 | 3.71 | 4.07 | 4.56 | 5.26 | 5.76 | 6.44 | 7.44 | 7.59 | 6.58 | 5.88 | 5.37 | 4.65 | 4.16 | 3.80 |
| | | L/100 | 4.98 | 5.44 | 6.03 | 6.82 | 7.36 | 8.06 | 9.02 | 9.02 | 8.05 | 7.36 | 6.82 | 6.03 | 5.44 | 4.99 |
| | | SLS L/150 | 4.04 | 4.46 | 4.99 | 5.71 | 6.20 | 6.82 | 7.69 | 7.68 | 6.82 | 6.20 | 5.71 | 4.99 | 4.46 | 4.05 |
| | | L/200 | 3.44 | 3.82 | 4.31 | 4.99 | 5.44 | 6.02 | 6.82 | 6.77 | 6.03 | 5.44 | 4.99 | 4.31 | 3.82 | 3.44 |
| | II | ULS 1 | 3.62 | 4.06 | 4.54 | 5.24 | 5.74 | 6.42 | 7.42 | 7.85 | 6.86 | 6.17 | 5.63 | 4.88 | 4.37 | 3.95 |
| | | ULS 2 | 3.62 | 4.07 | 4.55 | 5.26 | 5.76 | 6.44 | 7.44 | 7.59 | 6.57 | 5.88 | 5.37 | 4.65 | 4.16 | 3.80 |
| | | L/100 | 4.98 | 5.44 | 6.03 | 6.82 | 7.36 | 8.06 | 9.02 | 9.02 | 8.05 | 7.36 | 6.82 | 6.03 | 5.44 | 4.98 |
| | | SLS L/150 | 4.04 | 4.46 | 4.99 | 5.71 | 6.20 | 6.82 | 7.69 | 7.68 | 6.82 | 6.20 | 5.72 | 4.98 | 4.46 | 4.05 |
| | | L/200 | 3.44 | 3.82 | 4.31 | 4.99 | 5.44 | 5.96 | 6.66 | 6.77 | 6.03 | 5.44 | 4.99 | 4.31 | 3.82 | 3.44 |
| | III | ULS 1 | 3.47 | 4.06 | 4.41 | 4.89 | 5.23 | 5.70 | 6.38 | 7.85 | 6.86 | 6.17 | 5.63 | 4.88 | 4.37 | 3.95 |
| | | ULS 2 | 3.49 | 3.73 | 4.02 | 4.42 | 4.71 | 5.10 | 5.66 | 7.59 | 6.58 | 5.88 | 5.37 | 4.65 | 4.16 | 3.80 |
| | | L/100 | 4.98 | 5.44 | 6.03 | 6.82 | 7.36 | 8.06 | 9.02 | 9.02 | 8.06 | 7.36 | 6.82 | 6.03 | 5.45 | 4.98 |
| | | SLS L/150 | 4.04 | 4.46 | 4.99 | 5.69 | 6.12 | 6.66 | 7.39 | 7.68 | 6.82 | 6.20 | 5.71 | 4.99 | 4.46 | 4.05 |
| | | L/200 | 3.44 | 3.81 | 4.23 | 4.81 | 5.19 | 5.67 | 6.32 | 6.77 | 6.03 | 5.44 | 4.99 | 4.31 | 3.82 | 3.44 |
| Multi-span system | I | ULS 1 | 3.71 | 4.06 | 4.54 | 5.24 | 5.74 | 6.42 | 7.41 | 7.97 | 6.90 | 6.17 | 5.64 | 4.88 | 4.36 | 3.95 |
| | | ULS 2 | 3.72 | 4.07 | 4.56 | 5.26 | 5.76 | 6.44 | 7.44 | 7.59 | 6.58 | 5.88 | 5.37 | 4.65 | 4.16 | 3.80 |
| | | L/100 | 4.76 | 5.17 | 5.70 | 6.43 | 6.93 | 7.57 | 8.45 | 8.45 | 7.57 | 6.92 | 6.43 | 5.71 | 5.17 | 4.76 |
| | | SLS L/150 | 3.91 | 4.28 | 4.76 | 5.42 | 5.86 | 6.44 | 7.23 | 7.13 | 6.43 | 5.86 | 5.42 | 4.76 | 4.28 | 3.92 |
| | | L/200 | 3.36 | 3.70 | 4.15 | 4.76 | 5.17 | 5.69 | 6.32 | 6.19 | 5.58 | 5.13 | 4.76 | 4.15 | 3.71 | 3.36 |
| | II | ULS 1 | 3.71 | 4.06 | 4.54 | 5.24 | 5.74 | 6.42 | 7.41 | 7.97 | 6.90 | 6.17 | 5.63 | 4.88 | 4.37 | 3.95 |
| | | ULS 2 | 3.72 | 4.07 | 4.56 | 5.26 | 5.76 | 6.44 | 7.44 | 7.59 | 6.58 | 5.88 | 5.37 | 4.65 | 4.16 | 3.80 |
| | | L/100 | 4.76 | 5.17 | 5.70 | 6.43 | 6.93 | 7.57 | 8.45 | 8.45 | 7.57 | 6.93 | 6.44 | 5.70 | 5.17 | 4.76 |
| | | SLS L/150 | 3.91 | 4.28 | 4.76 | 5.42 | 5.85 | 6.35 | 7.02 | 7.13 | 6.44 | 5.86 | 5.41 | 4.76 | 4.28 | 3.91 |
| | | L/200 | 3.36 | 3.70 | 4.15 | 4.70 | 5.04 | 5.48 | 6.06 | 6.18 | 5.58 | 5.13 | 4.76 | 4.15 | 3.70 | 3.36 |
| | III | ULS 1 | 3.71 | 4.06 | 4.54 | 5.24 | 5.74 | 6.42 | 7.41 | 7.97 | 6.90 | 6.17 | 5.64 | 4.88 | 4.36 | 3.95 |
| | | ULS 2 | 3.72 | 4.07 | 4.56 | 5.26 | 5.76 | 6.44 | 7.44 | 7.59 | 6.58 | 5.88 | 5.37 | 4.65 | 4.16 | 3.80 |
| | | L/100 | 4.76 | 5.17 | 5.70 | 6.43 | 6.88 | 7.43 | 8.17 | 8.45 | 7.57 | 6.92 | 6.44 | 5.71 | 5.17 | 4.76 |
| | | SLS L/150 | 3.91 | 4.28 | 4.70 | 5.24 | 5.61 | 6.06 | 6.59 | 7.13 | 6.43 | 5.86 | 5.42 | 4.76 | 4.28 | 3.92 |
| | | L/200 | 3.31 | 3.61 | 3.97 | 4.45 | 4.74 | 5.02 | 5.37 | 6.18 | 5.58 | 5.13 | 4.76 | 4.15 | 3.71 | 3.36 |

● **Maximum allowed span for uniform (wind) characteristic load [kN/m²] Ruukki SP2D80PU/PIR**

Table 8

External facing thickness: 0.50 mm
 Internal facing thickness: 0.40 mm
 External temperature: +55 °C; +65 °C; +80 °C/-20 °C (summer/winter)
 Internal temperature: +20 °C/+20 °C (summer/winter)
 Min. end support width: 40 mm
 Min. intermediate support width: 60 mm
 Min. number of fasteners at end support: 1 *
 Min. number of fasteners at intermediate support: 1*

* – 1 set includes 1 pc. of L16 fastener and 2 pcs. of L01 or L02 fasteners
 ULS – Ultimate Limit State
 SLS – Serviceability Limit State
 ULS 1 – Ultimate Limit State for external facing thickness 0,55 mm
 ULS 2 – Ultimate Limit State for external facing thickness 0,50 mm

| Static scheme | Colour group | Criterion | Characteristic load [kN/m ²] | | | | | | | | | | | | | |
|--------------------|--------------|-----------|--|------|------|------|------|------|-------|-------|------|------|------|------|------|------|
| | | | -1.2 | -1.0 | -0.8 | -0.6 | -0.5 | -0.4 | -0.3 | 0.3 | 0.4 | 0.5 | 0.6 | 0.8 | 1.0 | 1.2 |
| Single-span system | I | ULS 1 | 4.29 | 4.70 | 5.25 | 6.06 | 6.65 | 7.43 | 8.57 | 9.32 | 8.07 | 7.22 | 6.59 | 5.71 | 5.10 | 4.66 |
| | | ULS 2 | 4.30 | 4.71 | 5.27 | 6.08 | 6.66 | 7.44 | 8.59 | 8.87 | 7.68 | 6.87 | 6.27 | 5.43 | 4.86 | 4.44 |
| | | L/100 | 4.93 | 5.31 | 5.81 | 6.49 | 6.90 | 7.42 | 8.13 | 7.97 | 7.28 | 6.78 | 6.38 | 5.78 | 5.31 | 4.93 |
| | | SLS L/150 | 4.13 | 4.45 | 4.83 | 5.35 | 5.68 | 6.11 | 6.60 | 6.22 | 5.85 | 5.55 | 5.22 | 4.73 | 4.36 | 4.07 |
| | | L/200 | 3.55 | 3.82 | 4.15 | 4.60 | 4.86 | 5.12 | 5.44 | 5.07 | 4.80 | 4.58 | 4.39 | 4.05 | 3.73 | 3.47 |
| | II | ULS 1 | 4.29 | 4.70 | 5.25 | 6.06 | 6.65 | 7.43 | 8.57 | 9.32 | 8.07 | 7.22 | 6.59 | 5.71 | 5.10 | 4.66 |
| | | ULS 2 | 4.30 | 4.71 | 5.27 | 6.08 | 6.66 | 7.44 | 8.59 | 8.87 | 7.68 | 6.87 | 6.27 | 5.43 | 4.86 | 4.44 |
| | | L/100 | 4.93 | 5.26 | 5.69 | 6.27 | 6.66 | 7.14 | 7.70 | 7.96 | 7.28 | 6.78 | 6.38 | 5.78 | 5.31 | 4.93 |
| | | SLS L/150 | 4.00 | 4.28 | 4.63 | 5.07 | 5.28 | 5.54 | 5.86 | 6.23 | 5.85 | 5.55 | 5.23 | 4.73 | 4.36 | 4.07 |
| | | L/200 | 3.39 | 3.64 | 3.88 | 4.14 | 4.31 | 4.50 | 4.72 | 5.07 | 4.80 | 4.57 | 4.39 | 4.05 | 3.73 | 3.47 |
| | III | ULS 1 | 4.29 | 4.70 | 5.25 | 6.06 | 6.65 | 7.43 | 8.57 | 9.32 | 8.07 | 7.22 | 6.59 | 5.71 | 5.10 | 4.66 |
| | | ULS 2 | 4.30 | 4.71 | 5.27 | 6.08 | 6.66 | 7.44 | 8.59 | 8.87 | 7.68 | 6.87 | 6.27 | 5.43 | 4.86 | 4.44 |
| | | L/100 | 4.73 | 5.04 | 5.43 | 5.85 | 6.09 | 6.37 | 6.73 | 7.96 | 7.29 | 6.78 | 6.38 | 5.78 | 5.31 | 4.93 |
| | | SLS L/150 | 3.76 | 3.94 | 4.14 | 4.40 | 4.55 | 4.73 | 4.93 | 5.94 | 5.85 | 5.55 | 5.23 | 4.73 | 4.36 | 4.07 |
| | | L/200 | 3.03 | 3.17 | 3.33 | 3.51 | 3.62 | 3.74 | 3.87 | 4.45 | 4.45 | 4.45 | 4.39 | 4.05 | 3.73 | 3.47 |
| Double-span system | I | ULS 1 | 3.66 | 4.39 | 5.25 | 6.06 | 6.65 | 7.43 | 8.57 | 9.16 | 8.00 | 7.22 | 6.59 | 5.70 | 5.10 | 4.39 |
| | | ULS 2 | 3.67 | 4.40 | 5.26 | 6.08 | 6.66 | 7.44 | 8.59 | 8.87 | 7.68 | 6.87 | 6.27 | 5.43 | 4.86 | 4.40 |
| | | L/100 | 6.19 | 6.73 | 7.42 | 8.39 | 9.03 | 9.87 | 11.03 | 11.03 | 9.87 | 9.03 | 8.39 | 7.42 | 6.73 | 6.18 |
| | | SLS L/150 | 5.05 | 5.55 | 6.19 | 7.05 | 7.63 | 8.39 | 9.42 | 9.42 | 8.39 | 7.63 | 7.05 | 6.19 | 5.55 | 5.05 |
| | | L/200 | 4.32 | 4.78 | 5.37 | 6.18 | 6.73 | 7.42 | 8.38 | 8.38 | 7.43 | 6.73 | 6.19 | 5.37 | 4.78 | 4.32 |
| | II | ULS 1 | 3.54 | 4.28 | 5.26 | 6.07 | 6.64 | 7.43 | 8.58 | 9.16 | 8.00 | 7.22 | 6.59 | 5.70 | 5.10 | 4.39 |
| | | ULS 2 | 3.56 | 4.29 | 5.26 | 6.00 | 6.47 | 7.11 | 8.05 | 8.87 | 7.68 | 6.87 | 6.27 | 5.43 | 4.86 | 4.40 |
| | | L/100 | 6.19 | 6.73 | 7.42 | 8.39 | 9.03 | 9.87 | 11.03 | 11.03 | 9.87 | 9.03 | 8.39 | 7.42 | 6.73 | 6.18 |
| | | SLS L/150 | 5.05 | 5.55 | 6.19 | 7.05 | 7.63 | 8.39 | 9.42 | 9.42 | 8.38 | 7.63 | 7.05 | 6.18 | 5.55 | 5.05 |
| | | L/200 | 4.32 | 4.78 | 5.37 | 6.18 | 6.73 | 7.43 | 8.30 | 8.38 | 7.43 | 6.72 | 6.19 | 5.37 | 4.78 | 4.32 |
| | III | ULS 1 | 3.36 | 4.08 | 4.67 | 5.14 | 5.47 | 5.91 | 6.55 | 9.16 | 8.00 | 7.22 | 6.59 | 5.70 | 5.10 | 4.39 |
| | | ULS 2 | 3.38 | 3.98 | 4.25 | 4.63 | 4.90 | 5.25 | 5.75 | 8.87 | 7.68 | 6.87 | 6.27 | 5.43 | 4.86 | 4.40 |
| | | L/100 | 6.19 | 6.73 | 7.42 | 8.39 | 9.03 | 9.87 | 11.03 | 11.03 | 9.87 | 9.03 | 8.39 | 7.42 | 6.73 | 6.18 |
| | | SLS L/150 | 5.05 | 5.55 | 6.19 | 7.05 | 7.63 | 8.30 | 9.20 | 9.42 | 8.39 | 7.63 | 7.05 | 6.19 | 5.55 | 5.05 |
| | | L/200 | 4.32 | 4.78 | 5.36 | 6.07 | 6.54 | 7.13 | 7.93 | 8.38 | 7.43 | 6.72 | 6.19 | 5.37 | 4.78 | 4.32 |
| Multi-span system | I | ULS 1 | 4.28 | 4.70 | 5.25 | 6.06 | 6.65 | 7.43 | 8.57 | 9.31 | 8.07 | 7.22 | 6.59 | 5.71 | 5.11 | 4.39 |
| | | ULS 2 | 4.28 | 4.71 | 5.27 | 6.08 | 6.66 | 7.44 | 8.59 | 8.87 | 7.68 | 6.87 | 6.27 | 5.43 | 4.86 | 4.40 |
| | | L/100 | 5.88 | 6.37 | 7.01 | 7.90 | 8.48 | 9.25 | 10.33 | 10.33 | 9.26 | 8.49 | 7.89 | 7.01 | 6.37 | 5.88 |
| | | SLS L/150 | 4.86 | 5.31 | 5.88 | 6.67 | 7.20 | 7.89 | 8.84 | 8.83 | 7.89 | 7.20 | 6.67 | 5.88 | 5.31 | 4.86 |
| | | L/200 | 4.20 | 4.62 | 5.15 | 5.88 | 6.37 | 7.01 | 7.85 | 7.70 | 6.95 | 6.37 | 5.88 | 5.15 | 4.61 | 4.20 |
| | II | ULS 1 | 4.22 | 4.70 | 5.25 | 6.06 | 6.65 | 7.43 | 8.57 | 9.31 | 8.07 | 7.22 | 6.59 | 5.71 | 5.10 | 4.39 |
| | | ULS 2 | 4.23 | 4.71 | 5.27 | 6.08 | 6.66 | 7.44 | 8.59 | 8.87 | 7.68 | 6.87 | 6.27 | 5.43 | 4.86 | 4.40 |
| | | L/100 | 5.88 | 6.37 | 7.01 | 7.90 | 8.48 | 9.25 | 10.33 | 10.33 | 9.26 | 8.49 | 7.89 | 7.01 | 6.38 | 5.88 |
| | | SLS L/150 | 4.86 | 5.31 | 5.88 | 6.67 | 7.20 | 7.87 | 8.71 | 8.83 | 7.89 | 7.20 | 6.67 | 5.88 | 5.31 | 4.86 |
| | | L/200 | 4.20 | 4.62 | 5.15 | 5.87 | 6.30 | 6.84 | 7.55 | 7.69 | 6.95 | 6.37 | 5.88 | 5.15 | 4.61 | 4.20 |
| | III | ULS 1 | 4.14 | 4.70 | 5.25 | 6.06 | 6.65 | 7.43 | 8.57 | 9.31 | 8.07 | 7.22 | 6.59 | 5.71 | 5.11 | 4.39 |
| | | ULS 2 | 4.16 | 4.67 | 5.15 | 5.83 | 6.33 | 7.01 | 8.00 | 8.87 | 7.68 | 6.87 | 6.27 | 5.43 | 4.86 | 4.40 |
| | | L/100 | 5.88 | 6.37 | 7.01 | 7.90 | 8.48 | 9.19 | 10.12 | 10.33 | 9.25 | 8.49 | 7.89 | 7.01 | 6.37 | 5.88 |
| | | SLS L/150 | 4.86 | 5.31 | 5.88 | 6.54 | 6.99 | 7.56 | 8.31 | 8.83 | 7.89 | 7.20 | 6.67 | 5.88 | 5.31 | 4.86 |
| | | L/200 | 4.20 | 4.56 | 5.01 | 5.60 | 5.99 | 6.44 | 6.91 | 7.70 | 6.95 | 6.37 | 5.88 | 5.15 | 4.62 | 4.20 |

● **Maximum allowed span for uniform (wind) characteristic load [kN/m²] Ruukki SP2D100PU/PIR**

Table 9

External facing thickness: 0.50 mm
 Internal facing thickness: 0.40 mm
 External temperature: +55 °C; +65 °C; +80 °C/-20 °C (summer/winter)
 Internal temperature: +20 °C/+20 °C (summer/winter)
 Min. end support width: 40 mm
 Min. intermediate support width: 60 mm
 Min. number of fasteners at end support: 1 *
 Min. number of fasteners at intermediate support: 1*

* – 1 set includes 1 pc. of L16 fastener and 2 pcs. of L01 or L02 fasteners
 ULS – Ultimate Limit State
 SLS – Serviceability Limit State
 ULS 1 – Ultimate Limit State for external facing thickness 0,55 mm
 ULS 2 – Ultimate Limit State for external facing thickness 0,50 mm

| Static scheme | Colour group | Criterion | Characteristic load [kN/m ²] | | | | | | | | | | | | | |
|--------------------|--------------|-----------|--|------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| | | | -1.2 | -1.0 | -0.8 | -0.6 | -0.5 | -0.4 | -0.3 | 0.3 | 0.4 | 0.5 | 0.6 | 0.8 | 1.0 | 1.2 |
| Single-span system | I | ULS 1 | 4.80 | 5.26 | 5.88 | 6.79 | 7.43 | 8.31 | 9.60 | 10.43 | 9.03 | 8.09 | 7.37 | 6.39 | 5.71 | 5.22 |
| | | ULS 2 | 4.81 | 5.27 | 5.89 | 6.80 | 7.45 | 8.33 | 9.62 | 9.92 | 8.59 | 7.68 | 7.02 | 6.08 | 5.43 | 4.96 |
| | | L/100 | 5.78 | 6.23 | 6.80 | 7.60 | 8.12 | 8.74 | 9.58 | 9.40 | 8.59 | 7.99 | 7.52 | 6.80 | 6.23 | 5.78 |
| | | SLS L/150 | 4.86 | 5.26 | 5.72 | 6.32 | 6.72 | 7.23 | 7.92 | 7.50 | 7.04 | 6.58 | 6.19 | 5.61 | 5.18 | 4.83 |
| | | L/200 | 4.23 | 4.54 | 4.94 | 5.47 | 5.81 | 6.18 | 6.58 | 6.16 | 5.82 | 5.53 | 5.30 | 4.82 | 4.44 | 4.14 |
| | II | ULS 1 | 4.80 | 5.26 | 5.88 | 6.79 | 7.43 | 8.31 | 9.60 | 10.43 | 9.03 | 8.09 | 7.37 | 6.39 | 5.71 | 5.22 |
| | | ULS 2 | 4.81 | 5.27 | 5.89 | 6.80 | 7.45 | 8.33 | 9.62 | 9.92 | 8.59 | 7.68 | 7.02 | 6.08 | 5.43 | 4.96 |
| | | L/100 | 5.78 | 6.22 | 6.72 | 7.40 | 7.86 | 8.43 | 9.21 | 9.40 | 8.59 | 7.99 | 7.52 | 6.80 | 6.23 | 5.77 |
| | | SLS L/150 | 4.76 | 5.08 | 5.50 | 6.06 | 6.37 | 6.69 | 7.10 | 7.50 | 7.04 | 6.58 | 6.19 | 5.61 | 5.18 | 4.83 |
| | | L/200 | 4.05 | 4.35 | 4.69 | 5.03 | 5.23 | 5.47 | 5.77 | 6.16 | 5.81 | 5.53 | 5.30 | 4.82 | 4.44 | 4.14 |
| | III | ULS 1 | 4.80 | 5.26 | 5.88 | 6.79 | 7.43 | 8.31 | 9.60 | 10.43 | 9.03 | 8.09 | 7.37 | 6.39 | 5.71 | 5.22 |
| | | ULS 2 | 4.81 | 5.27 | 5.89 | 6.80 | 7.45 | 8.33 | 9.62 | 9.92 | 8.59 | 7.68 | 7.02 | 6.08 | 5.43 | 4.96 |
| | | L/100 | 5.61 | 5.97 | 6.44 | 7.04 | 7.34 | 7.69 | 8.14 | 9.40 | 8.59 | 7.99 | 7.52 | 6.80 | 6.23 | 5.78 |
| | | SLS L/150 | 4.52 | 4.77 | 5.03 | 5.35 | 5.54 | 5.77 | 6.04 | 7.44 | 7.04 | 6.58 | 6.19 | 5.61 | 5.17 | 4.83 |
| | | L/200 | 3.71 | 3.87 | 4.07 | 4.30 | 4.44 | 4.60 | 4.77 | 5.58 | 5.58 | 5.54 | 5.30 | 4.82 | 4.45 | 4.14 |
| Double-span system | I | ULS 1 | 3.65 | 4.34 | 5.44 | 6.79 | 7.44 | 8.31 | 9.60 | 9.24 | 8.10 | 7.32 | 6.75 | 5.96 | 5.42 | 4.83 |
| | | ULS 2 | 3.66 | 4.34 | 5.46 | 6.80 | 7.45 | 8.33 | 9.61 | 9.35 | 8.19 | 7.40 | 6.82 | 6.01 | 5.44 | 4.84 |
| | | L/100 | 7.29 | 7.91 | 8.71 | 9.82 | 10.57 | 11.54 | 12.88 | 12.88 | 11.54 | 10.57 | 9.82 | 8.71 | 7.91 | 7.30 |
| | | SLS L/150 | 6.00 | 6.56 | 7.29 | 8.29 | 8.95 | 9.82 | 11.02 | 11.02 | 9.82 | 8.95 | 8.29 | 7.29 | 6.56 | 5.99 |
| | | L/200 | 5.15 | 5.67 | 6.36 | 7.30 | 7.91 | 8.71 | 9.82 | 9.82 | 8.71 | 7.91 | 7.29 | 6.36 | 5.68 | 5.15 |
| | II | ULS 1 | 3.47 | 4.19 | 5.28 | 6.79 | 7.44 | 8.31 | 9.60 | 9.24 | 8.10 | 7.32 | 6.76 | 5.97 | 5.43 | 4.83 |
| | | ULS 2 | 3.49 | 4.20 | 5.30 | 6.72 | 7.24 | 7.95 | 9.01 | 9.36 | 8.19 | 7.40 | 6.82 | 6.01 | 5.43 | 4.84 |
| | | L/100 | 7.29 | 7.91 | 8.71 | 9.82 | 10.57 | 11.54 | 12.88 | 12.88 | 11.54 | 10.57 | 9.82 | 8.71 | 7.91 | 7.30 |
| | | SLS L/150 | 6.00 | 6.56 | 7.29 | 8.29 | 8.95 | 9.82 | 11.02 | 11.02 | 9.82 | 8.95 | 8.28 | 7.29 | 6.56 | 6.00 |
| | | L/200 | 5.15 | 5.67 | 6.36 | 7.30 | 7.91 | 8.71 | 9.82 | 9.82 | 8.71 | 7.91 | 7.29 | 6.36 | 5.68 | 5.15 |
| | III | ULS 1 | 3.25 | 3.94 | 5.02 | 5.75 | 6.12 | 6.61 | 7.33 | 9.25 | 8.10 | 7.33 | 6.75 | 5.96 | 5.43 | 4.83 |
| | | ULS 2 | 3.28 | 3.97 | 4.75 | 5.18 | 5.48 | 5.87 | 6.44 | 9.35 | 8.19 | 7.40 | 6.82 | 6.01 | 5.44 | 4.84 |
| | | L/100 | 7.29 | 7.91 | 8.71 | 9.82 | 10.57 | 11.54 | 12.88 | 12.89 | 11.54 | 10.57 | 9.82 | 8.71 | 7.91 | 7.29 |
| | | SLS L/150 | 6.00 | 6.56 | 7.29 | 8.28 | 8.95 | 9.82 | 10.88 | 11.02 | 9.82 | 8.95 | 8.29 | 7.29 | 6.56 | 5.99 |
| | | L/200 | 5.15 | 5.68 | 6.35 | 7.23 | 7.78 | 8.48 | 9.42 | 9.82 | 8.71 | 7.91 | 7.29 | 6.36 | 5.68 | 5.15 |
| Multi-span system | I | ULS 1 | 4.28 | 5.12 | 5.88 | 6.79 | 7.44 | 8.31 | 9.60 | 10.43 | 9.03 | 8.08 | 7.37 | 6.39 | 5.71 | 4.83 |
| | | ULS 2 | 4.25 | 5.12 | 5.89 | 6.80 | 7.45 | 8.33 | 9.62 | 9.92 | 8.59 | 7.68 | 7.02 | 6.08 | 5.43 | 4.84 |
| | | L/100 | 6.92 | 7.48 | 8.22 | 9.23 | 9.92 | 10.81 | 12.05 | 12.05 | 10.81 | 9.92 | 9.23 | 8.22 | 7.48 | 6.92 |
| | | SLS L/150 | 5.75 | 6.26 | 6.91 | 7.83 | 8.44 | 9.23 | 10.33 | 10.34 | 9.23 | 8.44 | 7.83 | 6.91 | 6.25 | 5.74 |
| | | L/200 | 4.98 | 5.46 | 6.07 | 6.92 | 7.48 | 8.22 | 9.23 | 9.10 | 8.22 | 7.48 | 6.92 | 6.08 | 5.46 | 4.99 |
| | II | ULS 1 | 4.28 | 5.12 | 5.88 | 6.79 | 7.44 | 8.31 | 9.60 | 10.43 | 9.03 | 8.08 | 7.37 | 6.39 | 5.71 | 4.83 |
| | | ULS 2 | 4.19 | 5.06 | 5.89 | 6.80 | 7.45 | 8.33 | 9.62 | 9.92 | 8.59 | 7.68 | 7.02 | 6.08 | 5.43 | 4.84 |
| | | L/100 | 6.92 | 7.48 | 8.22 | 9.23 | 9.92 | 10.81 | 12.05 | 12.05 | 10.81 | 9.92 | 9.24 | 8.22 | 7.49 | 6.92 |
| | | SLS L/150 | 5.75 | 6.26 | 6.91 | 7.83 | 8.44 | 9.23 | 10.26 | 10.33 | 9.23 | 8.44 | 7.83 | 6.92 | 6.26 | 5.75 |
| | | L/200 | 4.98 | 5.46 | 6.07 | 6.91 | 7.46 | 8.10 | 8.94 | 9.10 | 8.22 | 7.48 | 6.92 | 6.08 | 5.46 | 4.98 |
| | III | ULS 1 | 4.07 | 4.95 | 5.88 | 6.79 | 7.44 | 8.31 | 9.60 | 10.43 | 9.03 | 8.08 | 7.37 | 6.39 | 5.71 | 4.83 |
| | | ULS 2 | 4.09 | 4.96 | 5.76 | 6.52 | 7.09 | 7.84 | 8.95 | 9.92 | 8.59 | 7.68 | 7.02 | 6.08 | 5.43 | 4.84 |
| | | L/100 | 6.92 | 7.48 | 8.22 | 9.23 | 9.92 | 10.81 | 11.91 | 12.05 | 10.81 | 9.92 | 9.23 | 8.22 | 7.48 | 6.92 |
| | | SLS L/150 | 5.75 | 6.26 | 6.91 | 7.76 | 8.28 | 8.94 | 9.84 | 10.34 | 9.23 | 8.44 | 7.83 | 6.91 | 6.25 | 5.74 |
| | | L/200 | 4.98 | 5.45 | 5.97 | 6.67 | 7.13 | 7.71 | 8.36 | 9.10 | 8.22 | 7.48 | 6.92 | 6.07 | 5.46 | 4.99 |

● **Maximum allowed span for uniform (wind) characteristic load [kN/m²] Ruukki SP2E120PU/PIR**

Table 10

External facing thickness: 0.50 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55 °C; +65 °C/-20 °C (summer/winter)
 Internal temperature: 0 °C (summer/winter)
 Min. end support width: 40 mm
 Min. intermediate support width: 60 mm
 Min. number of fasteners at the end support: 2 or 3
 Min. number of fasteners at intermediate support: 3 or 4

ULS – Ultimate Limit State
 ULS 3/0 – Ultimate Limit State; 3 fasteners at the end support
 ULS 2/0 – Ultimate Limit State; 2 fasteners at the end support
 ULS 2/4 – Ultimate Limit State; 2 fasteners at the end support / 4 fasteners at intermediate support
 ULS 2/3 – Ultimate Limit State; 2 fasteners at the end support / 3 fasteners at intermediate support
 SLS – Serviceability Limit State

| Static scheme | Colour group | Criterion | Characteristic load [kN/m ²] | | | | | | | | | | | | | |
|--------------------|--------------|-----------|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| | | | -1.2 | -1.0 | -0.8 | -0.6 | -0.5 | -0.4 | -0.3 | 0.3 | 0.4 | 0.5 | 0.6 | 0.8 | 1.0 | 1.2 |
| Single-span system | I | ULS 3/0 | 5.32 | 6.13 | 6.86 | 7.92 | 8.67 | 9.70 | 11.20 | 11.88 | 10.28 | 9.20 | 8.40 | 7.27 | 6.51 | 5.73 |
| | | ULS 2/0 | 3.56 | 4.26 | 5.32 | 7.09 | 8.49 | 9.70 | 11.20 | 11.87 | 10.29 | 9.20 | 8.40 | 7.27 | 6.50 | 5.73 |
| | | L/100 | 6.70 | 7.15 | 7.70 | 8.46 | 8.96 | 9.46 | 10.05 | 11.56 | 10.40 | 9.58 | 8.94 | 8.00 | 7.32 | 6.80 |
| | | SLS L/150 | 5.42 | 5.79 | 6.19 | 6.62 | 6.88 | 7.19 | 7.56 | 9.68 | 8.94 | 8.20 | 7.64 | 6.80 | 6.19 | 5.73 |
| | | L/200 | 4.58 | 4.80 | 5.06 | 5.37 | 5.56 | 5.78 | 6.03 | 7.26 | 7.26 | 7.26 | 6.80 | 6.03 | 5.46 | 5.03 |
| | II | ULS 3/0 | 5.32 | 6.13 | 6.86 | 7.92 | 8.67 | 9.70 | 11.20 | 11.88 | 10.28 | 9.20 | 8.40 | 7.27 | 6.51 | 5.73 |
| | | ULS 2/0 | 3.56 | 4.26 | 5.32 | 7.09 | 8.49 | 9.70 | 11.20 | 11.87 | 10.29 | 9.20 | 8.40 | 7.27 | 6.50 | 5.73 |
| | | L/100 | 6.53 | 6.95 | 7.49 | 8.06 | 8.38 | 8.78 | 9.26 | 11.56 | 10.40 | 9.58 | 8.94 | 8.00 | 7.32 | 6.80 |
| | | SLS L/150 | 5.21 | 5.45 | 5.73 | 6.08 | 6.29 | 6.52 | 6.81 | 8.19 | 8.19 | 8.19 | 7.64 | 6.80 | 6.19 | 5.73 |
| | | L/200 | 4.22 | 4.40 | 4.61 | 4.86 | 5.01 | 5.17 | 5.35 | 6.14 | 6.14 | 6.15 | 6.15 | 6.03 | 5.46 | 5.03 |
| Double-span system | I | ULS 2/4 | 2.48 | 2.95 | 3.66 | 5.03 | 6.22 | 7.46 | 8.29 | 11.28 | 9.85 | 8.88 | 8.17 | 7.18 | 5.82 | 4.85 |
| | | ULS 2/3 | 1.72 | 1.93 | 2.28 | 3.13 | 3.86 | 5.11 | 7.40 | 11.28 | 9.85 | 8.88 | 8.17 | 7.18 | 5.82 | 4.85 |
| | | L/100 | 8.59 | 9.32 | 10.26 | 11.56 | 12.44 | 13.57 | 15.16 | 15.16 | 13.58 | 12.44 | 11.56 | 10.26 | 9.32 | 8.59 |
| | | SLS L/150 | 7.07 | 7.74 | 8.59 | 9.76 | 10.55 | 11.56 | 12.97 | 12.97 | 11.56 | 10.54 | 9.76 | 8.59 | 7.74 | 7.07 |
| | | L/200 | 6.08 | 6.70 | 7.50 | 8.60 | 9.30 | 10.14 | 11.27 | 11.56 | 10.26 | 9.32 | 8.59 | 7.50 | 6.70 | 6.08 |
| | II | ULS 2/4 | 2.31 | 2.72 | 3.38 | 4.70 | 5.60 | 5.91 | 6.35 | 11.28 | 9.85 | 8.88 | 8.17 | 7.18 | 5.82 | 4.85 |
| | | ULS 2/3 | 1.45 | 1.57 | 1.76 | 2.06 | 2.35 | 2.94 | 6.34 | 11.28 | 9.85 | 8.88 | 8.17 | 7.18 | 5.82 | 4.85 |
| | | L/100 | 8.59 | 9.32 | 10.26 | 11.56 | 12.44 | 13.57 | 15.16 | 15.16 | 13.58 | 12.44 | 11.56 | 10.26 | 9.32 | 8.60 |
| | | SLS L/150 | 7.07 | 7.74 | 8.59 | 9.76 | 10.55 | 11.46 | 12.69 | 12.96 | 11.56 | 10.54 | 9.76 | 8.59 | 7.74 | 7.07 |
| | | L/200 | 6.08 | 6.70 | 7.49 | 8.44 | 9.08 | 9.88 | 10.96 | 11.56 | 10.26 | 9.32 | 8.59 | 7.50 | 6.70 | 6.08 |
| Multi-span system | I | ULS 2/4 | 3.10 | 3.79 | 4.84 | 6.63 | 8.05 | 9.70 | 11.17 | 11.87 | 10.29 | 9.20 | 8.40 | 7.27 | 5.82 | 4.85 |
| | | ULS 2/3 | 2.14 | 2.61 | 3.32 | 4.62 | 5.68 | 7.29 | 9.98 | 11.88 | 10.29 | 9.20 | 8.40 | 7.27 | 5.82 | 4.85 |
| | | L/100 | 8.15 | 8.82 | 9.68 | 10.87 | 11.67 | 12.72 | 14.17 | 14.17 | 12.72 | 11.68 | 10.87 | 9.67 | 8.81 | 8.15 |
| | | SLS L/150 | 6.77 | 7.37 | 8.14 | 9.21 | 9.88 | 10.68 | 11.77 | 12.16 | 10.87 | 9.93 | 9.21 | 8.15 | 7.37 | 6.77 |
| | | L/200 | 5.88 | 6.44 | 7.15 | 7.99 | 8.55 | 9.25 | 10.19 | 10.87 | 9.68 | 8.81 | 8.15 | 7.16 | 6.44 | 5.88 |
| | II | ULS 2/4 | 2.99 | 3.68 | 4.73 | 6.50 | 7.27 | 8.00 | 9.09 | 11.88 | 10.28 | 9.20 | 8.40 | 7.27 | 5.82 | 4.85 |
| | | ULS 2/3 | 2.01 | 2.42 | 3.15 | 4.45 | 5.52 | 7.12 | 9.07 | 11.87 | 10.29 | 9.20 | 8.40 | 7.27 | 5.82 | 4.85 |
| | | L/100 | 8.15 | 8.82 | 9.68 | 10.87 | 11.67 | 12.64 | 13.90 | 14.18 | 12.72 | 11.67 | 10.87 | 9.67 | 8.81 | 8.15 |
| | | SLS L/150 | 6.77 | 7.37 | 8.13 | 9.05 | 9.65 | 10.41 | 11.45 | 12.16 | 10.86 | 9.94 | 9.21 | 8.15 | 7.37 | 6.77 |
| | | L/200 | 5.88 | 6.36 | 6.97 | 7.77 | 8.30 | 8.91 | 9.54 | 10.87 | 9.67 | 8.81 | 8.15 | 7.16 | 6.44 | 5.88 |

● **Maximum allowed span for uniform (wind) characteristic load [kN/m²] Ruukki SP2E160PU/PIR**

Table 11

External facing thickness: 0.50 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55 °C; +65 °C/-20 °C (summer/winter)
 Internal temperature: -20 °C (summer/winter)
 Min. end support width: 40 mm
 Min. intermediate support width: 60 mm
 Min. number of fasteners at the end support: 2 or 3
 Min. number of fasteners at intermediate support: 3 or 4

ULS – Ultimate Limit State
 ULS 3/0 – Ultimate Limit State; 3 fasteners at the end support
 ULS 2/0 – Ultimate Limit State; 2 fasteners at the end support
 ULS 2/4 – Ultimate Limit State; 2 fasteners at the end support / 4 fasteners at intermediate support
 ULS 2/3 – Ultimate Limit State; 2 fasteners at the end support / 3 fasteners at intermediate support
 SLS – Serviceability Limit State

| Static scheme | Colour group | Criterion | Characteristic load [kN/m ²] | | | | | | | | | | | | | |
|--------------------|--------------|-----------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | -1.2 | -1.0 | -0.8 | -0.6 | -0.5 | -0.4 | -0.3 | 0.3 | 0.4 | 0.5 | 0.6 | 0.8 | 1.0 | 1.2 |
| Single-span system | I | ULS 3/0 | 5.32 | 6.38 | 7.93 | 9.16 | 10.03 | 11.21 | 12.95 | 13.73 | 11.89 | 10.64 | 9.71 | 8.41 | 6.87 | 5.73 |
| | | ULS 2/0 | 3.56 | 4.26 | 5.32 | 7.09 | 8.49 | 10.61 | 12.95 | 13.73 | 11.90 | 10.64 | 9.71 | 8.41 | 6.88 | 5.74 |
| | | L/100 | 7.84 | 8.35 | 8.96 | 9.57 | 9.95 | 10.40 | 10.95 | 14.01 | 12.61 | 11.60 | 10.83 | 9.69 | 8.86 | 8.23 |
| | | SLS L/150 | 6.18 | 6.45 | 6.78 | 7.18 | 7.41 | 7.68 | 8.00 | 9.50 | 9.50 | 9.49 | 9.25 | 8.23 | 7.49 | 6.92 |
| | | L/200 | 4.98 | 5.19 | 5.43 | 5.71 | 5.87 | 6.06 | 6.26 | 7.12 | 7.12 | 7.12 | 7.12 | 7.12 | 6.60 | 6.08 |
| | II | ULS 3/0 | 5.32 | 6.38 | 7.93 | 9.16 | 10.03 | 11.21 | 12.95 | 13.73 | 11.89 | 10.64 | 9.71 | 8.41 | 6.87 | 5.73 |
| | | ULS 2/0 | 3.56 | 4.26 | 5.32 | 7.09 | 8.49 | 10.61 | 12.95 | 13.73 | 11.90 | 10.64 | 9.71 | 8.41 | 6.88 | 5.74 |
| | | L/100 | 7.67 | 8.07 | 8.49 | 9.02 | 9.34 | 9.71 | 10.17 | 12.57 | 12.57 | 11.60 | 10.83 | 9.69 | 8.87 | 8.23 |
| | | SLS L/150 | 5.81 | 6.04 | 6.32 | 6.65 | 6.84 | 7.06 | 7.31 | 8.38 | 8.38 | 8.37 | 8.38 | 8.23 | 7.49 | 6.92 |
| | | L/200 | 4.64 | 4.81 | 5.02 | 5.24 | 5.37 | 5.52 | 5.67 | 6.28 | 6.28 | 6.28 | 6.28 | 6.28 | 6.28 | 6.07 |
| Double-span system | I | ULS 2/5 | 2.84 | 3.36 | 4.23 | 5.01 | 5.13 | 5.28 | 5.45 | 6.37 | 6.37 | 6.37 | 6.37 | 6.37 | 5.82 | 4.85 |
| | | ULS 2/4 | 1.98 | 2.18 | 2.50 | 3.03 | 3.94 | 5.28 | 5.45 | 6.37 | 6.37 | 6.37 | 6.37 | 6.37 | 5.82 | 4.85 |
| | | L/100 | 10.37 | 11.26 | 12.41 | 13.99 | 15.06 | 16.44 | 18.37 | 18.36 | 16.44 | 15.06 | 13.99 | 12.41 | 11.27 | 10.38 |
| | | SLS L/150 | 8.52 | 9.33 | 10.38 | 11.80 | 12.69 | 13.78 | 15.27 | 15.70 | 13.99 | 12.75 | 11.79 | 10.38 | 9.33 | 8.52 |
| | | L/200 | 7.32 | 8.07 | 8.97 | 10.12 | 10.88 | 11.85 | 13.15 | 13.99 | 12.41 | 11.27 | 10.38 | 9.04 | 8.07 | 7.32 |
| | II | ULS 2/5 | 2.53 | 2.89 | 3.70 | 4.29 | 4.35 | 4.42 | 4.50 | 4.80 | 4.80 | 4.80 | 4.80 | 4.80 | 4.80 | 4.80 |
| | | ULS 2/4 | 1.72 | 1.86 | 2.04 | 2.32 | 2.55 | 2.83 | 4.50 | 4.81 | 4.81 | 4.81 | 4.81 | 4.81 | 4.81 | 4.81 |
| | | L/100 | 10.37 | 11.26 | 12.41 | 13.99 | 15.06 | 16.44 | 18.22 | 18.36 | 16.44 | 15.06 | 13.99 | 12.41 | 11.26 | 10.38 |
| | | SLS L/150 | 8.52 | 9.33 | 10.37 | 11.63 | 12.47 | 13.53 | 14.96 | 15.70 | 13.98 | 12.75 | 11.80 | 10.38 | 9.33 | 8.52 |
| | | L/200 | 7.29 | 7.94 | 8.78 | 9.89 | 10.63 | 11.56 | 12.62 | 13.99 | 12.41 | 11.27 | 10.38 | 9.04 | 8.07 | 7.32 |
| Multi-span system | I | ULS 2/5 | 3.56 | 4.26 | 5.25 | 5.69 | 5.98 | 6.37 | 6.92 | 13.73 | 11.89 | 10.64 | 9.70 | 7.28 | 5.82 | 4.85 |
| | | ULS 2/4 | 2.73 | 3.35 | 4.36 | 5.68 | 5.99 | 6.37 | 6.92 | 13.73 | 11.89 | 10.64 | 9.70 | 7.28 | 5.82 | 4.85 |
| | | ULS 2/3 | 1.79 | 2.15 | 2.71 | 3.88 | 4.91 | 6.38 | 6.93 | 13.73 | 11.90 | 10.64 | 9.70 | 7.27 | 5.82 | 4.85 |
| | | L/100 | 9.84 | 10.66 | 11.70 | 13.16 | 14.12 | 15.23 | 16.74 | 17.17 | 15.41 | 14.14 | 13.16 | 11.71 | 10.66 | 9.85 |
| | | SLS L/150 | 8.17 | 8.90 | 9.77 | 10.87 | 11.59 | 12.51 | 13.74 | 14.73 | 13.15 | 12.02 | 11.14 | 9.84 | 8.90 | 8.17 |
| | II | L/200 | 7.03 | 7.62 | 8.34 | 9.31 | 9.94 | 10.57 | 11.30 | 13.16 | 11.70 | 10.66 | 9.84 | 8.64 | 7.76 | 7.09 |
| | | ULS 2/5 | 3.56 | 4.02 | 4.18 | 4.38 | 4.50 | 4.65 | 4.82 | 5.90 | 5.90 | 5.90 | 5.90 | 5.90 | 5.82 | 4.85 |
| | | ULS 2/4 | 2.58 | 3.19 | 4.17 | 4.37 | 4.50 | 4.64 | 4.82 | 5.89 | 5.89 | 5.89 | 5.89 | 5.89 | 5.82 | 4.85 |
| | | ULS 2/3 | 1.51 | 1.72 | 2.07 | 3.58 | 4.50 | 4.64 | 4.82 | 5.89 | 5.89 | 5.89 | 5.89 | 5.89 | 5.82 | 4.85 |
| | | L/100 | 9.84 | 10.66 | 11.70 | 13.05 | 13.90 | 14.97 | 16.43 | 17.17 | 15.41 | 14.14 | 13.16 | 11.71 | 10.66 | 9.85 |
| SLS L/150 | 8.16 | 8.80 | 9.58 | 10.64 | 11.34 | 12.17 | 13.02 | 14.73 | 13.15 | 12.02 | 11.14 | 9.84 | 8.90 | 8.17 | | |
| | L/200 | 6.89 | 7.45 | 8.15 | 9.00 | 9.43 | 9.94 | 10.57 | 13.16 | 11.70 | 10.66 | 9.84 | 8.64 | 7.76 | 7.09 | |

● **Maximum allowed span for uniform (wind) characteristic load [kN/m²] Ruukki SP2E180PU/PIR**

Table 12

External facing thickness: 0.50 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55 °C; +65 °C/-20 °C (summer/winter)
 Internal temperature: -30 °C (summer/winter)
 Min. end support width: 40 mm
 Min. intermediate support width: 60 mm
 Min. number of fasteners at the end support: 2 or 3
 Min. number of fasteners at intermediate support: 3 or 4

ULS – Ultimate Limit State
 ULS 3/0 – Ultimate Limit State; 3 fasteners at the end support
 ULS 2/0 – Ultimate Limit State; 2 fasteners at the end support
 ULS 2/4 – Ultimate Limit State; 2 fasteners at the end support / 4 fasteners at intermediate support
 ULS 2/3 – Ultimate Limit State; 2 fasteners at the end support / 3 fasteners at intermediate support
 SLS – Serviceability Limit State

| Static scheme | Colour group | Criterion | Characteristic load [kN/m ²] | | | | | | | | | | | | | |
|--------------------|--------------|-----------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | -1.2 | -1.0 | -0.8 | -0.6 | -0.5 | -0.4 | -0.3 | 0.3 | 0.4 | 0.5 | 0.6 | 0.8 | 1.0 | 1.2 |
| Single-span system | I | ULS 3/0 | 5.32 | 6.38 | 7.97 | 9.72 | 10.64 | 11.90 | 13.74 | 14.57 | 12.62 | 11.29 | 10.31 | 8.60 | 6.88 | 5.73 |
| | | ULS 2/0 | 3.56 | 4.26 | 5.32 | 7.09 | 8.49 | 10.61 | 13.74 | 14.57 | 12.62 | 11.29 | 10.31 | 8.60 | 6.88 | 5.73 |
| | | L/100 | 8.33 | 8.86 | 9.34 | 9.94 | 10.31 | 10.74 | 11.26 | 14.15 | 13.63 | 12.54 | 11.70 | 10.46 | 9.56 | 8.87 |
| | | SLS L/150 | 6.39 | 6.66 | 6.98 | 7.36 | 7.59 | 7.85 | 8.13 | 9.43 | 9.43 | 9.43 | 9.43 | 8.87 | 8.07 | 7.45 |
| | | L/200 | 5.12 | 5.32 | 5.56 | 5.82 | 5.97 | 6.14 | 6.33 | 7.08 | 7.08 | 7.08 | 7.07 | 7.08 | 7.08 | 6.53 |
| | II | ULS 3/0 | 5.32 | 6.38 | 7.97 | 9.72 | 10.64 | 11.90 | 13.74 | 14.57 | 12.62 | 11.29 | 10.31 | 8.60 | 6.88 | 5.73 |
| | | ULS 2/0 | 3.56 | 4.26 | 5.32 | 7.09 | 8.49 | 10.61 | 13.74 | 14.57 | 12.62 | 11.29 | 10.31 | 8.60 | 6.88 | 5.73 |
| | | L/100 | 8.09 | 8.44 | 8.87 | 9.39 | 9.71 | 10.07 | 10.50 | 12.66 | 12.66 | 12.53 | 11.69 | 10.46 | 9.56 | 8.87 |
| | | SLS L/150 | 6.03 | 6.26 | 6.54 | 6.86 | 7.04 | 7.25 | 7.48 | 8.44 | 8.44 | 8.44 | 8.44 | 8.44 | 8.07 | 7.45 |
| | | L/200 | 4.78 | 4.96 | 5.15 | 5.37 | 5.49 | 5.63 | 5.77 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 |
| Double-span system | I | ULS 2/5 | 2.56 | 2.83 | 3.41 | 4.51 | 4.57 | 4.63 | 4.71 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 4.85 |
| | | ULS 2/4 | 1.77 | 1.91 | 2.08 | 2.34 | 2.53 | 2.79 | 3.26 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 4.85 |
| | | L/100 | 11.16 | 12.13 | 13.37 | 15.09 | 16.25 | 17.75 | 19.77 | 19.83 | 17.75 | 16.24 | 15.09 | 13.37 | 12.13 | 11.17 |
| | | SLS L/150 | 9.15 | 10.03 | 11.16 | 12.60 | 13.52 | 14.68 | 16.25 | 16.95 | 15.09 | 13.75 | 12.71 | 11.16 | 10.03 | 9.15 |
| | | L/200 | 7.84 | 8.58 | 9.49 | 10.73 | 11.53 | 12.56 | 13.87 | 15.09 | 13.37 | 12.13 | 11.17 | 9.71 | 8.66 | 7.84 |
| | II | ULS 2/5 | 2.22 | 2.44 | 2.71 | 3.37 | 4.02 | 4.05 | 4.09 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 |
| | | ULS 2/4 | 1.58 | 1.68 | 1.80 | 1.95 | 2.05 | 2.18 | 2.34 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 |
| | | L/100 | 11.16 | 12.13 | 13.37 | 15.09 | 16.25 | 17.66 | 19.50 | 19.83 | 17.75 | 16.24 | 15.09 | 13.37 | 12.13 | 11.17 |
| | | SLS L/150 | 9.15 | 10.03 | 11.04 | 12.40 | 13.28 | 14.42 | 15.94 | 16.95 | 15.09 | 13.75 | 12.71 | 11.16 | 10.03 | 9.15 |
| | | L/200 | 7.71 | 8.41 | 9.29 | 10.49 | 11.27 | 12.15 | 13.12 | 15.09 | 13.37 | 12.13 | 11.17 | 9.71 | 8.66 | 7.84 |
| Multi-span system | I | ULS 2/5 | 3.55 | 4.14 | 4.28 | 4.45 | 4.56 | 4.69 | 4.83 | 5.58 | 5.58 | 5.58 | 5.58 | 5.58 | 5.58 | 4.85 |
| | | ULS 2/4 | 2.53 | 3.10 | 4.05 | 4.45 | 4.56 | 4.69 | 4.83 | 5.58 | 5.58 | 5.58 | 5.58 | 5.58 | 5.58 | 4.85 |
| | | ULS 2/3 | 1.51 | 1.69 | 2.01 | 3.00 | 4.38 | 4.68 | 4.83 | 5.58 | 5.58 | 5.58 | 5.58 | 5.58 | 5.58 | 4.85 |
| | | L/100 | 10.60 | 11.48 | 12.62 | 14.16 | 15.08 | 16.26 | 17.86 | 18.56 | 16.64 | 15.26 | 14.20 | 12.62 | 11.49 | 10.60 |
| | | SLS L/150 | 8.79 | 9.53 | 10.39 | 11.56 | 12.33 | 13.30 | 14.32 | 15.90 | 14.20 | 12.96 | 12.02 | 10.60 | 9.58 | 8.79 |
| | II | L/200 | 7.45 | 8.07 | 8.84 | 9.86 | 10.36 | 10.94 | 11.67 | 14.19 | 12.62 | 11.49 | 10.60 | 9.29 | 8.34 | 7.60 |
| | | ULS 2/5 | 3.41 | 3.48 | 3.55 | 3.63 | 3.67 | 3.72 | 3.77 | 3.96 | 3.96 | 3.96 | 3.96 | 3.96 | 3.96 | 3.96 |
| | | ULS 2/4 | 2.39 | 2.92 | 3.55 | 3.62 | 3.67 | 3.71 | 3.77 | 3.96 | 3.96 | 3.96 | 3.96 | 3.96 | 3.96 | 3.96 |
| | | ULS 2/3 | 1.31 | 1.43 | 1.59 | 1.90 | 2.14 | 3.71 | 3.77 | 3.96 | 3.96 | 3.96 | 3.96 | 3.96 | 3.96 | 3.96 |
| | | L/100 | 10.60 | 11.48 | 12.60 | 13.96 | 14.85 | 16.00 | 17.54 | 18.56 | 16.64 | 15.26 | 14.20 | 12.63 | 11.49 | 10.60 |
| SLS L/150 | 8.69 | 9.36 | 10.20 | 11.33 | 12.06 | 12.74 | 13.60 | 15.90 | 14.20 | 12.97 | 12.02 | 10.60 | 9.58 | 8.79 | | |
| | L/200 | 7.30 | 7.89 | 8.63 | 9.38 | 9.80 | 10.32 | 10.94 | 14.19 | 12.62 | 11.48 | 10.60 | 9.29 | 8.34 | 7.60 | |

• **Maximum allowed span for uniform (wind) characteristic load [kN/m²] Ruukki SP2E200PU/PIR**

Table 13

External facing thickness: 0.50 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55 °C; +65 °C/-20 °C (summer/winter)
 Internal temperature: -30 °C (summer/winter)
 Min. end support width: 40 mm
 Min. intermediate support width: 60 mm
 Min. number of fasteners at the end support: 2 or 3
 Min. number of fasteners at intermediate support: 3 or 4

ULS – Ultimate Limit State
 ULS 3/0 – Ultimate Limit State; 3 fasteners at the end support
 ULS 2/0 – Ultimate Limit State; 2 fasteners at the end support
 ULS 2/4 – Ultimate Limit State; 2 fasteners at the end support / 4 fasteners at intermediate support
 ULS 2/3 – Ultimate Limit State; 2 fasteners at the end support / 3 fasteners at intermediate support
 SLS – Serviceability Limit State

| Static scheme | Colour group | Criterion | Characteristic load [kN/m ²] | | | | | | | | | | | | | |
|--------------------|--------------|-----------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | -1.2 | -1.0 | -0.8 | -0.6 | -0.5 | -0.4 | -0.3 | 0.3 | 0.4 | 0.5 | 0.6 | 0.8 | 1.0 | 1.2 |
| Single-span system | I | ULS 3/0 | 5.32 | 6.38 | 7.97 | 10.24 | 11.22 | 12.55 | 14.49 | 15.37 | 13.31 | 11.90 | 10.87 | 8.60 | 6.88 | 5.73 |
| | | ULS 2/0 | 3.56 | 4.26 | 5.32 | 7.09 | 8.49 | 10.61 | 14.13 | 15.37 | 13.31 | 11.90 | 10.87 | 8.60 | 6.88 | 5.73 |
| | | L/100 | 8.97 | 9.55 | 10.16 | 10.83 | 11.25 | 11.73 | 12.33 | 15.73 | 14.60 | 13.42 | 12.52 | 11.19 | 10.22 | 9.48 |
| | | SLS L/150 | 6.96 | 7.26 | 7.62 | 8.06 | 8.32 | 8.60 | 8.95 | 10.49 | 10.48 | 10.48 | 10.48 | 9.48 | 8.62 | 7.95 |
| | | L/200 | 5.58 | 5.81 | 6.08 | 6.38 | 6.56 | 6.76 | 6.98 | 7.87 | 7.87 | 7.87 | 7.87 | 7.86 | 7.58 | 6.96 |
| | II | ULS 3/0 | 5.32 | 6.38 | 7.97 | 10.24 | 11.22 | 12.55 | 14.49 | 15.37 | 13.31 | 11.90 | 10.87 | 8.60 | 6.88 | 5.73 |
| | | ULS 2/0 | 3.56 | 4.26 | 5.32 | 7.09 | 8.49 | 10.61 | 14.13 | 15.37 | 13.31 | 11.90 | 10.87 | 8.60 | 6.88 | 5.73 |
| | | L/100 | 8.78 | 9.18 | 9.66 | 10.25 | 10.61 | 11.02 | 11.52 | 14.07 | 14.07 | 13.42 | 12.52 | 11.18 | 10.22 | 9.48 |
| | | SLS L/150 | 6.57 | 6.84 | 7.15 | 7.51 | 7.73 | 7.97 | 8.24 | 9.38 | 9.38 | 9.39 | 9.38 | 9.38 | 8.62 | 7.95 |
| | | L/200 | 5.23 | 5.43 | 5.65 | 5.90 | 6.04 | 6.20 | 6.38 | 7.04 | 7.04 | 7.04 | 7.04 | 7.04 | 7.04 | 6.96 |
| Double-span system | I | ULS 2/5 | 2.59 | 2.90 | 3.32 | 4.59 | 4.82 | 4.89 | 4.97 | 5.27 | 5.27 | 5.27 | 5.27 | 5.27 | 5.27 | 4.85 |
| | | ULS 2/4 | 1.84 | 1.97 | 2.15 | 2.40 | 2.57 | 2.82 | 3.12 | 5.26 | 5.26 | 5.26 | 5.26 | 5.26 | 5.26 | 4.85 |
| | | L/100 | 11.89 | 12.94 | 14.28 | 16.13 | 17.38 | 18.99 | 21.23 | 21.23 | 18.99 | 17.38 | 16.12 | 14.28 | 12.94 | 11.89 |
| | | SLS L/150 | 9.72 | 10.67 | 11.89 | 13.52 | 14.51 | 15.77 | 17.48 | 18.12 | 16.12 | 14.68 | 13.56 | 11.89 | 10.67 | 9.72 |
| | | L/200 | 8.31 | 9.17 | 10.16 | 11.50 | 12.38 | 13.49 | 14.99 | 16.12 | 14.28 | 12.94 | 11.90 | 10.33 | 9.19 | 8.31 |
| | II | ULS 2/5 | 2.28 | 2.49 | 2.74 | 3.25 | 3.82 | 4.30 | 4.34 | 4.49 | 4.49 | 4.49 | 4.49 | 4.49 | 4.49 | 4.49 |
| | | ULS 2/4 | 1.64 | 1.75 | 1.87 | 2.03 | 2.13 | 2.25 | 2.41 | 4.49 | 4.49 | 4.49 | 4.49 | 4.49 | 4.49 | 4.49 |
| | | L/100 | 11.89 | 12.94 | 14.28 | 16.13 | 17.38 | 18.98 | 20.97 | 21.24 | 18.99 | 17.37 | 16.12 | 14.28 | 12.94 | 11.89 |
| | | SLS L/150 | 9.72 | 10.67 | 11.83 | 13.30 | 14.27 | 15.50 | 17.16 | 18.12 | 16.13 | 14.68 | 13.56 | 11.89 | 10.67 | 9.72 |
| | | L/200 | 8.23 | 8.99 | 9.96 | 11.25 | 12.11 | 13.18 | 14.27 | 16.13 | 14.28 | 12.94 | 11.90 | 10.33 | 9.19 | 8.32 |
| Multi-span system | I | ULS 2/5 | 3.50 | 4.26 | 4.43 | 4.60 | 4.70 | 4.81 | 4.94 | 5.57 | 5.57 | 5.57 | 5.57 | 5.57 | 5.57 | 4.85 |
| | | ULS 2/4 | 2.51 | 3.04 | 3.94 | 4.60 | 4.70 | 4.81 | 4.94 | 5.56 | 5.56 | 5.56 | 5.56 | 5.56 | 5.56 | 4.85 |
| | | ULS 2/3 | 1.53 | 1.70 | 1.97 | 2.49 | 4.16 | 4.81 | 4.95 | 5.58 | 5.58 | 5.58 | 5.58 | 5.58 | 5.58 | 4.85 |
| | | L/100 | 11.31 | 12.26 | 13.48 | 15.18 | 16.22 | 17.50 | 19.24 | 19.87 | 17.81 | 16.33 | 15.18 | 13.49 | 12.26 | 11.31 |
| | | SLS L/150 | 9.35 | 10.21 | 11.16 | 12.42 | 13.26 | 14.32 | 15.57 | 17.01 | 15.18 | 13.85 | 12.83 | 11.31 | 10.21 | 9.35 |
| | II | L/200 | 7.97 | 8.64 | 9.48 | 10.59 | 11.26 | 11.91 | 12.72 | 15.18 | 13.49 | 12.26 | 11.31 | 9.90 | 8.87 | 8.08 |
| | | ULS 2/5 | 3.35 | 3.64 | 3.71 | 3.79 | 3.83 | 3.88 | 3.92 | 4.10 | 4.10 | 4.10 | 4.10 | 4.10 | 4.10 | 4.10 |
| | | ULS 2/4 | 2.36 | 2.86 | 3.71 | 3.79 | 3.83 | 3.87 | 3.92 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 |
| | | ULS 2/3 | 1.35 | 1.46 | 1.62 | 1.88 | 2.09 | 3.87 | 3.92 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 |
| | | L/100 | 11.31 | 12.26 | 13.48 | 15.00 | 15.98 | 17.22 | 18.90 | 19.88 | 17.81 | 16.33 | 15.18 | 13.48 | 12.26 | 11.31 |
| SLS L/150 | 9.31 | 10.04 | 10.96 | 12.18 | 12.99 | 13.85 | 14.80 | 17.02 | 15.18 | 13.85 | 12.83 | 11.31 | 10.21 | 9.35 | | |
| | L/200 | 7.81 | 8.46 | 9.27 | 10.19 | 10.67 | 11.25 | 11.96 | 15.18 | 13.48 | 12.26 | 11.31 | 9.90 | 8.87 | 8.08 | |

● **Maximum allowed span for uniform (snow) characteristic load [kN/m²] Ruukki SP2C80/40 PU/PIR**

Table 14

External facing thickness: 0.50 mm
 Internal facing thickness: 0.40 mm
 External temperature: +55 °C; +65 °C; +80 °C/-20 °C (summer/winter)
 Internal temperature: +20 °C/+20 °C (summer/winter)
 Min. end support width: 40 mm
 Min. intermediate support width: 60 mm
 Min. number of fasteners at end support: 1, 2 or 3
 Min. number of fasteners at intermediate support: 2 or 3

ULS – Ultimate Limit State
 ULS 1/0 – Ultimate Limit State; 1 fastener at the end support
 ULS 2/0 – Ultimate Limit State; 2 fasteners at the end support
 ULS 1/2 – Ultimate Limit State; 1 fastener at the end support / 2 fasteners at intermediate support
 ULS 1/3 – Ultimate Limit State; 1 fastener at the end support / 3 fasteners at intermediate support
 ULS 2/2 – Ultimate Limit State; 2 fasteners at the end support / 2 fasteners at intermediate support
 ULS 2/3 – Ultimate Limit State; 2 fasteners at the end support / 3 fasteners at intermediate support
 SLS – Serviceability Limit State

| Static scheme | Colour group | Criterion | Characteristic load [kN/m ²] | | | | | | | | | | | | | |
|--------------------|--------------|-----------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | -1.2 | -1.0 | -0.8 | -0.6 | -0.4 | 0.6 | 0.8 | 1.0 | 1.3 | 1.6 | 2.0 | 2.2 | 2.6 | 3.4 |
| Single-span system | I | ULS 1/0 | 1.99 | 2.41 | 3.06 | 4.20 | 6.35 | 3.85 | 3.24 | 2.80 | 2.35 | 2.04 | 1.51 | 1.29 | 1.02 | 0.74 |
| | | ULS 2/0 | 3.18 | 3.57 | 4.11 | 4.92 | 6.35 | 3.85 | 3.24 | 2.80 | 2.35 | 2.04 | 1.51 | 1.29 | 1.02 | 0.74 |
| | | L/100 | 4.07 | 4.40 | 4.84 | 5.50 | 6.61 | 4.37 | 3.91 | 3.58 | 3.21 | 2.93 | 2.67 | 2.55 | 2.38 | 2.11 |
| | | SLS L/150 | 3.45 | 3.75 | 4.10 | 4.60 | 5.17 | 3.65 | 3.26 | 2.98 | 2.66 | 2.44 | 2.21 | 2.13 | 1.97 | 1.77 |
| | | L/200 | 3.04 | 3.27 | 3.57 | 3.99 | 4.24 | 3.21 | 2.86 | 2.61 | 2.34 | 2.14 | 1.94 | 1.87 | 1.75 | 1.57 |
| | | ULS 1/0 | 1.99 | 2.41 | 3.06 | 4.20 | 6.35 | 3.85 | 3.24 | 2.80 | 2.35 | 2.04 | 1.51 | 1.29 | 1.02 | 0.74 |
| | II | ULS 2/0 | 3.18 | 3.57 | 4.11 | 4.92 | 6.35 | 3.85 | 3.24 | 2.80 | 2.35 | 2.04 | 1.51 | 1.29 | 1.02 | 0.74 |
| | | L/100 | 4.07 | 4.39 | 4.78 | 5.35 | 6.32 | 4.37 | 3.91 | 3.58 | 3.21 | 2.93 | 2.67 | 2.55 | 2.38 | 2.11 |
| | | SLS L/150 | 3.37 | 3.62 | 3.93 | 4.39 | 5.01 | 3.65 | 3.26 | 2.98 | 2.66 | 2.44 | 2.21 | 2.13 | 1.97 | 1.77 |
| | | L/200 | 2.92 | 3.13 | 3.40 | 3.66 | 4.06 | 3.21 | 2.86 | 2.61 | 2.34 | 2.14 | 1.94 | 1.87 | 1.75 | 1.57 |
| | | ULS 1/0 | 1.99 | 2.41 | 3.06 | 4.20 | 6.35 | 3.85 | 3.24 | 2.80 | 2.35 | 2.04 | 1.51 | 1.29 | 1.02 | 0.74 |
| | | ULS 2/0 | 3.18 | 3.57 | 4.11 | 4.92 | 6.35 | 3.85 | 3.24 | 2.80 | 2.35 | 2.04 | 1.51 | 1.29 | 1.02 | 0.74 |
| III | L/100 | 3.93 | 4.20 | 4.56 | 5.05 | 5.67 | 4.37 | 3.91 | 3.58 | 3.21 | 2.93 | 2.67 | 2.55 | 2.38 | 2.11 | |
| | SLS L/150 | 3.20 | 3.39 | 3.58 | 3.83 | 4.17 | 3.65 | 3.26 | 2.98 | 2.66 | 2.44 | 2.21 | 2.13 | 1.97 | 1.77 | |
| | L/200 | 2.71 | 2.82 | 2.96 | 3.12 | 3.34 | 3.21 | 2.86 | 2.61 | 2.34 | 2.14 | 1.94 | 1.87 | 1.75 | 1.57 | |
| | ULS 1/2 | 1.37 | 1.69 | 2.20 | 3.16 | 5.37 | 3.85 | 3.24 | 2.80 | 2.35 | 2.02 | 1.50 | 1.28 | 1.01 | 0.73 | |
| | ULS 1/3 | 1.79 | 2.25 | 3.04 | 4.20 | 6.07 | 3.85 | 3.24 | 2.80 | 2.35 | 2.02 | 1.50 | 1.28 | 1.01 | 0.73 | |
| | ULS 2/3 | 2.34 | 2.88 | 3.65 | 4.47 | 6.08 | 3.85 | 3.24 | 2.80 | 2.35 | 2.02 | 1.50 | 1.28 | 1.01 | 0.73 | |
| Double-span system | I | L/100 | 5.29 | 5.74 | 6.34 | 7.22 | 8.75 | 5.62 | 5.02 | 4.59 | 4.11 | 3.77 | 3.43 | 3.29 | 3.07 | 2.74 |
| | | SLS L/150 | 4.46 | 4.86 | 5.38 | 6.17 | 7.52 | 4.69 | 4.18 | 3.82 | 3.43 | 3.15 | 2.87 | 2.76 | 2.58 | 2.31 |
| | | L/200 | 3.94 | 4.30 | 4.78 | 5.50 | 6.73 | 4.11 | 3.67 | 3.36 | 3.02 | 2.78 | 2.54 | 2.45 | 2.29 | 2.05 |
| | | ULS 1/2 | 1.26 | 1.53 | 2.00 | 2.93 | 5.15 | 3.85 | 3.24 | 2.80 | 2.35 | 2.02 | 1.50 | 1.28 | 1.01 | 0.73 |
| | | ULS 1/3 | 1.79 | 2.25 | 3.04 | 4.19 | 5.78 | 3.85 | 3.24 | 2.80 | 2.35 | 2.02 | 1.50 | 1.28 | 1.01 | 0.73 |
| | | ULS 2/3 | 2.21 | 2.75 | 3.40 | 4.18 | 5.78 | 3.85 | 3.24 | 2.80 | 2.35 | 2.02 | 1.50 | 1.28 | 1.01 | 0.73 |
| | II | L/100 | 5.29 | 5.74 | 6.34 | 7.22 | 8.75 | 5.62 | 5.02 | 4.59 | 4.11 | 3.77 | 3.43 | 3.29 | 3.07 | 2.74 |
| | | SLS L/150 | 4.46 | 4.86 | 5.38 | 6.17 | 7.52 | 4.69 | 4.18 | 3.82 | 3.43 | 3.15 | 2.87 | 2.76 | 2.58 | 2.31 |
| | | L/200 | 3.94 | 4.30 | 4.78 | 5.50 | 6.73 | 4.11 | 3.67 | 3.36 | 3.02 | 2.78 | 2.54 | 2.45 | 2.29 | 2.05 |
| | | ULS 1/3 | 1.79 | 2.25 | 3.02 | 3.67 | 5.02 | 3.85 | 3.24 | 2.80 | 2.35 | 2.02 | 1.50 | 1.28 | 1.01 | 0.73 |
| | | ULS 2/3 | 2.03 | 2.54 | 3.02 | 3.67 | 5.02 | 3.85 | 3.24 | 2.80 | 2.35 | 2.02 | 1.50 | 1.28 | 1.01 | 0.73 |
| | | L/100 | 5.29 | 5.74 | 6.34 | 7.22 | 8.75 | 5.62 | 5.02 | 4.59 | 4.11 | 3.77 | 3.43 | 3.29 | 3.07 | 2.74 |
| Multi-span system | I | SLS L/150 | 4.46 | 4.86 | 5.38 | 6.17 | 7.52 | 4.69 | 4.18 | 3.82 | 3.43 | 3.15 | 2.87 | 2.76 | 2.58 | 2.31 |
| | | L/200 | 3.94 | 4.30 | 4.78 | 5.49 | 6.63 | 4.11 | 3.67 | 3.36 | 3.02 | 2.78 | 2.54 | 2.45 | 2.29 | 2.05 |
| | | ULS 1/2 | 1.68 | 2.18 | 2.86 | 4.01 | 6.35 | 3.85 | 3.24 | 2.80 | 2.35 | 2.04 | 1.50 | 1.28 | 1.01 | 0.73 |
| | | ULS 2/2 | 1.78 | 2.20 | 2.86 | 4.01 | 6.35 | 3.85 | 3.24 | 2.80 | 2.35 | 2.04 | 1.50 | 1.28 | 1.01 | 0.73 |
| | | ULS 2/3 | 2.86 | 3.50 | 4.11 | 4.92 | 6.35 | 3.85 | 3.24 | 2.80 | 2.35 | 2.04 | 1.50 | 1.28 | 1.01 | 0.73 |
| | | L/100 | 4.99 | 5.40 | 5.95 | 6.77 | 8.18 | 5.36 | 4.80 | 4.40 | 3.95 | 3.62 | 3.29 | 3.17 | 2.95 | 2.63 |
| | II | SLS L/150 | 4.23 | 4.60 | 5.08 | 5.80 | 7.04 | 4.49 | 4.02 | 3.67 | 3.30 | 3.03 | 2.75 | 2.65 | 2.47 | 2.21 |
| | | L/200 | 3.75 | 4.08 | 4.53 | 5.18 | 6.31 | 3.95 | 3.53 | 3.23 | 2.90 | 2.66 | 2.43 | 2.34 | 2.18 | 1.95 |
| | | ULS 1/2 | 1.68 | 2.12 | 2.78 | 3.93 | 6.19 | 3.85 | 3.24 | 2.80 | 2.35 | 2.04 | 1.50 | 1.28 | 1.01 | 0.73 |
| | | ULS 2/2 | 1.71 | 2.13 | 2.77 | 3.93 | 6.19 | 3.85 | 3.24 | 2.80 | 2.35 | 2.04 | 1.50 | 1.28 | 1.01 | 0.73 |
| | | ULS 2/3 | 2.81 | 3.45 | 4.00 | 4.79 | 6.19 | 3.85 | 3.24 | 2.80 | 2.35 | 2.04 | 1.50 | 1.28 | 1.01 | 0.73 |
| | | L/100 | 4.99 | 5.40 | 5.95 | 6.77 | 8.18 | 5.36 | 4.80 | 4.40 | 3.95 | 3.62 | 3.29 | 3.17 | 2.95 | 2.63 |
| III | SLS L/150 | 4.23 | 4.60 | 5.08 | 5.80 | 7.04 | 4.49 | 4.02 | 3.67 | 3.30 | 3.03 | 2.75 | 2.65 | 2.47 | 2.21 | |
| | L/200 | 3.75 | 4.08 | 4.53 | 5.18 | 6.25 | 3.95 | 3.53 | 3.23 | 2.90 | 2.66 | 2.43 | 2.34 | 2.18 | 1.95 | |
| | ULS 1/2 | 1.60 | 2.00 | 2.65 | 3.80 | 5.94 | 3.85 | 3.24 | 2.80 | 2.35 | 2.04 | 1.50 | 1.28 | 1.01 | 0.73 | |
| | ULS 2/2 | 1.60 | 2.00 | 2.65 | 3.80 | 5.94 | 3.85 | 3.24 | 2.80 | 2.35 | 2.04 | 1.50 | 1.28 | 1.01 | 0.73 | |
| | ULS 2/3 | 2.72 | 3.23 | 3.78 | 4.60 | 5.95 | 3.85 | 3.24 | 2.80 | 2.35 | 2.04 | 1.50 | 1.28 | 1.01 | 0.73 | |
| | L/100 | 4.99 | 5.40 | 5.95 | 6.77 | 8.18 | 5.36 | 4.80 | 4.40 | 3.95 | 3.62 | 3.29 | 3.17 | 2.95 | 2.63 | |

● **Maximum allowed span for uniform (snow) characteristic load [kN/m²] Ruukki SP2C100/60 PU/PIR**

Table 15

External facing thickness: 0.50 mm
 Internal facing thickness: 0.40 mm
 External temperature: +55 °C; +65 °C; +80 °C/-20 °C (summer/winter)
 Internal temperature: +20 °C/+20 °C (summer/winter)
 Min. end support width: 40 mm
 Min. intermediate support width: 60 mm
 Min. number of fasteners at end support: 1, 2 or 3
 Min. number of fasteners at intermediate support: 2 or 3

ULS – Ultimate Limit State
 ULS 1/0 – Ultimate Limit State; 1 fastener at the end support
 ULS 2/0 – Ultimate Limit State; 2 fasteners at the end support
 ULS 1/2 – Ultimate Limit State; 1 fastener at the end support / 2 fasteners at intermediate support
 ULS 1/3 – Ultimate Limit State; 1 fastener at the end support / 3 fasteners at intermediate support
 ULS 2/2 – Ultimate Limit State; 2 fasteners at the end support / 2 fasteners at intermediate support
 ULS 2/3 – Ultimate Limit State; 2 fasteners at the end support / 3 fasteners at intermediate support
 SLS – Serviceability Limit State

| Static scheme | Colour group | Criterion | Characteristic load [kN/m ²] | | | | | | | | | | | | | |
|--------------------|--------------|-----------|--|------|------|-------|-------|------|------|------|------|------|------|------|------|------|
| | | | -1.2 | -1.0 | -0.8 | -0.6 | -0.4 | 0.6 | 0.8 | 1.0 | 1.3 | 1.6 | 2.0 | 2.2 | 2.6 | 3.4 |
| Single-span system | I | ULS 1/0 | 2.00 | 2.42 | 3.08 | 4.23 | 6.78 | 4.76 | 3.96 | 3.39 | 2.78 | 2.35 | 1.97 | 1.82 | 1.61 | 1.33 |
| | | ULS 2/0 | 3.97 | 4.39 | 4.93 | 5.77 | 7.27 | 4.76 | 3.96 | 3.39 | 2.78 | 2.35 | 1.97 | 1.82 | 1.61 | 1.33 |
| | | L/100 | 4.94 | 5.35 | 5.91 | 6.72 | 8.12 | 5.21 | 4.64 | 4.21 | 3.74 | 3.40 | 3.05 | 2.91 | 2.68 | 2.35 |
| | | SLS L/150 | 4.18 | 4.54 | 5.01 | 5.65 | 6.34 | 4.31 | 3.81 | 3.44 | 3.05 | 2.76 | 2.48 | 2.36 | 2.18 | 1.92 |
| | | L/200 | 3.67 | 3.96 | 4.34 | 4.89 | 5.19 | 3.74 | 3.29 | 2.97 | 2.63 | 2.38 | 2.14 | 2.05 | 1.89 | 1.68 |
| | II | ULS 1/0 | 2.00 | 2.42 | 3.08 | 4.23 | 6.78 | 4.76 | 3.96 | 3.39 | 2.78 | 2.35 | 1.97 | 1.82 | 1.61 | 1.33 |
| | | ULS 2/0 | 3.97 | 4.39 | 4.93 | 5.77 | 7.27 | 4.76 | 3.96 | 3.39 | 2.78 | 2.35 | 1.97 | 1.82 | 1.61 | 1.33 |
| | | L/100 | 4.94 | 5.35 | 5.86 | 6.58 | 7.81 | 5.21 | 4.64 | 4.21 | 3.74 | 3.40 | 3.05 | 2.91 | 2.68 | 2.35 |
| | | SLS L/150 | 4.09 | 4.40 | 4.80 | 5.38 | 6.27 | 4.31 | 3.81 | 3.44 | 3.05 | 2.76 | 2.48 | 2.36 | 2.18 | 1.92 |
| | | L/200 | 3.52 | 3.78 | 4.13 | 4.51 | 5.03 | 3.74 | 3.29 | 2.97 | 2.63 | 2.38 | 2.14 | 2.05 | 1.89 | 1.68 |
| | III | ULS 1/0 | 2.00 | 2.42 | 3.08 | 4.23 | 6.78 | 4.76 | 3.96 | 3.39 | 2.78 | 2.35 | 1.97 | 1.82 | 1.61 | 1.33 |
| | | ULS 2/0 | 3.97 | 4.39 | 4.93 | 5.77 | 7.27 | 4.76 | 3.96 | 3.39 | 2.78 | 2.35 | 1.97 | 1.82 | 1.61 | 1.33 |
| | | L/100 | 4.80 | 5.14 | 5.59 | 6.23 | 7.13 | 5.21 | 4.64 | 4.21 | 3.74 | 3.40 | 3.05 | 2.91 | 2.68 | 2.35 |
| | | SLS L/150 | 3.88 | 4.14 | 4.39 | 4.72 | 5.19 | 4.31 | 3.81 | 3.44 | 3.05 | 2.76 | 2.48 | 2.36 | 2.18 | 1.92 |
| | | L/200 | 3.25 | 3.40 | 3.58 | 3.80 | 4.10 | 3.74 | 3.29 | 2.97 | 2.63 | 2.38 | 2.14 | 2.05 | 1.89 | 1.68 |
| Double-span system | I | ULS 1/2 | 1.35 | 1.63 | 2.10 | 2.97 | 5.16 | 4.65 | 3.95 | 3.39 | 2.78 | 2.36 | 1.97 | 1.83 | 1.61 | 1.33 |
| | | ULS 1/3 | 1.62 | 1.99 | 2.63 | 4.07 | 6.77 | 4.65 | 3.95 | 3.39 | 2.78 | 2.36 | 1.97 | 1.83 | 1.61 | 1.33 |
| | | ULS 2/3 | 2.27 | 2.79 | 3.63 | 4.98 | 6.93 | 4.65 | 3.95 | 3.39 | 2.78 | 2.36 | 1.97 | 1.83 | 1.61 | 1.33 |
| | | L/100 | 6.38 | 6.94 | 7.69 | 8.79 | 10.70 | 6.60 | 5.85 | 5.30 | 4.70 | 4.27 | 3.84 | 3.67 | 3.40 | 2.99 |
| | | SLS L/150 | 5.35 | 5.85 | 6.52 | 7.48 | 9.18 | 5.42 | 4.79 | 4.33 | 3.84 | 3.49 | 3.15 | 3.02 | 2.79 | 2.48 |
| | II | L/200 | 4.70 | 5.15 | 5.76 | 6.65 | 8.20 | 4.69 | 4.14 | 3.75 | 3.33 | 3.03 | 2.74 | 2.63 | 2.45 | 2.18 |
| | | ULS 1/2 | 1.22 | 1.46 | 1.86 | 2.65 | 4.81 | 4.65 | 3.95 | 3.39 | 2.78 | 2.36 | 1.97 | 1.83 | 1.61 | 1.33 |
| | | ULS 1/3 | 1.62 | 1.96 | 2.63 | 4.06 | 6.47 | 4.65 | 3.95 | 3.39 | 2.78 | 2.36 | 1.97 | 1.83 | 1.61 | 1.33 |
| | | ULS 2/3 | 2.12 | 2.62 | 3.44 | 4.55 | 6.47 | 4.65 | 3.95 | 3.39 | 2.78 | 2.36 | 1.97 | 1.83 | 1.61 | 1.33 |
| | | L/100 | 6.38 | 6.94 | 7.69 | 8.79 | 10.70 | 6.60 | 5.85 | 5.30 | 4.70 | 4.27 | 3.84 | 3.67 | 3.40 | 2.99 |
| | III | SLS L/150 | 5.35 | 5.85 | 6.52 | 7.48 | 9.18 | 5.42 | 4.79 | 4.33 | 3.84 | 3.49 | 3.15 | 3.02 | 2.79 | 2.48 |
| | | L/200 | 4.70 | 5.15 | 5.76 | 6.65 | 8.20 | 4.69 | 4.14 | 3.75 | 3.33 | 3.03 | 2.74 | 2.63 | 2.45 | 2.18 |
| | | ULS 1/3 | 1.60 | 1.96 | 2.63 | 3.91 | 5.50 | 4.65 | 3.95 | 3.39 | 2.78 | 2.36 | 1.97 | 1.83 | 1.61 | 1.33 |
| | | ULS 2/3 | 1.88 | 2.35 | 3.12 | 3.91 | 5.50 | 4.65 | 3.95 | 3.39 | 2.78 | 2.36 | 1.97 | 1.83 | 1.61 | 1.33 |
| | | L/100 | 6.38 | 6.94 | 7.69 | 8.79 | 10.70 | 6.60 | 5.85 | 5.30 | 4.70 | 4.27 | 3.84 | 3.67 | 3.40 | 2.99 |
| Multi-span system | I | SLS L/150 | 5.35 | 5.85 | 6.52 | 7.48 | 9.18 | 5.42 | 4.79 | 4.33 | 3.84 | 3.49 | 3.15 | 3.02 | 2.79 | 2.48 |
| | | L/200 | 4.70 | 5.15 | 5.76 | 6.65 | 8.15 | 4.69 | 4.14 | 3.75 | 3.33 | 3.03 | 2.74 | 2.63 | 2.45 | 2.18 |
| | | ULS 1/2 | 1.18 | 1.85 | 2.58 | 3.94 | 6.54 | 4.76 | 3.96 | 3.39 | 2.78 | 2.35 | 1.97 | 1.83 | 1.61 | 1.33 |
| | | ULS 2/2 | 1.74 | 2.16 | 2.78 | 3.94 | 6.54 | 4.76 | 3.96 | 3.39 | 2.78 | 2.35 | 1.97 | 1.83 | 1.61 | 1.33 |
| | | ULS 2/3 | 2.81 | 3.45 | 4.45 | 5.76 | 7.27 | 4.76 | 3.96 | 3.39 | 2.78 | 2.35 | 1.97 | 1.83 | 1.61 | 1.33 |
| | II | L/100 | 6.03 | 6.54 | 7.24 | 8.24 | 10.00 | 6.33 | 5.63 | 5.12 | 4.55 | 4.15 | 3.73 | 3.57 | 3.30 | 2.91 |
| | | SLS L/150 | 5.08 | 5.54 | 6.15 | 7.04 | 8.60 | 5.23 | 4.64 | 4.20 | 3.73 | 3.39 | 3.06 | 2.92 | 2.71 | 2.39 |
| | | L/200 | 4.48 | 4.90 | 5.46 | 6.29 | 7.70 | 4.55 | 4.02 | 3.65 | 3.24 | 2.94 | 2.66 | 2.55 | 2.36 | 2.10 |
| | | ULS 1/2 | 1.18 | 1.85 | 2.58 | 3.82 | 6.42 | 4.76 | 3.96 | 3.39 | 2.78 | 2.35 | 1.97 | 1.83 | 1.61 | 1.33 |
| | | ULS 2/2 | 1.64 | 2.04 | 2.66 | 3.82 | 6.41 | 4.76 | 3.96 | 3.39 | 2.78 | 2.35 | 1.97 | 1.83 | 1.61 | 1.33 |
| | III | ULS 2/3 | 2.74 | 3.38 | 4.38 | 5.63 | 7.31 | 4.76 | 3.96 | 3.39 | 2.78 | 2.35 | 1.97 | 1.83 | 1.61 | 1.33 |
| | | L/100 | 6.03 | 6.54 | 7.24 | 8.24 | 10.00 | 6.33 | 5.63 | 5.12 | 4.55 | 4.15 | 3.73 | 3.57 | 3.30 | 2.91 |
| | | SLS L/150 | 5.08 | 5.54 | 6.15 | 7.04 | 8.60 | 5.23 | 4.64 | 4.20 | 3.73 | 3.39 | 3.06 | 2.92 | 2.71 | 2.39 |
| | | L/200 | 4.48 | 4.90 | 5.46 | 6.29 | 7.69 | 4.55 | 4.02 | 3.65 | 3.24 | 2.94 | 2.66 | 2.55 | 2.36 | 2.10 |
| | | ULS 1/2 | 1.18 | 1.84 | 2.47 | 3.63 | 6.23 | 4.76 | 3.96 | 3.39 | 2.78 | 2.35 | 1.97 | 1.83 | 1.61 | 1.33 |
| III | ULS 2/2 | 1.49 | 1.84 | 2.47 | 3.63 | 6.23 | 4.76 | 3.96 | 3.39 | 2.78 | 2.35 | 1.97 | 1.83 | 1.61 | 1.33 | |
| | ULS 2/3 | 2.63 | 3.26 | 4.04 | 5.11 | 7.35 | 4.76 | 3.96 | 3.39 | 2.78 | 2.35 | 1.97 | 1.83 | 1.61 | 1.33 | |
| | L/100 | 6.03 | 6.54 | 7.24 | 8.24 | 10.00 | 6.33 | 5.63 | 5.12 | 4.55 | 4.15 | 3.73 | 3.57 | 3.30 | 2.91 | |
| | SLS L/150 | 5.08 | 5.54 | 6.15 | 7.01 | 8.42 | 5.23 | 4.64 | 4.20 | 3.73 | 3.39 | 3.06 | 2.92 | 2.71 | 2.39 | |
| | L/200 | 4.48 | 4.88 | 5.36 | 6.07 | 7.27 | 4.55 | 4.02 | 3.65 | 3.24 | 2.94 | 2.66 | 2.55 | 2.36 | 2.10 | |

● **Maximum allowed span for uniform (snow) characteristic load [kN/m²] Ruukki SP2C120/80 PU/PIR**

Table 16

External facing thickness: 0.50 mm
 Internal facing thickness: 0.40 mm
 External temperature: +55 °C; +65 °C; +80 °C/-20 °C (summer/winter)
 Internal temperature: +20 °C/+20 °C (summer/winter)
 Min. end support width: 40 mm
 Min. intermediate support width: 60 mm
 Min. number of fasteners at end support: 1, 2 or 3
 Min. number of fasteners at intermediate support: 2 or 3

ULS – Ultimate Limit State
 ULS 1/0 – Ultimate Limit State; 1 fastener at the end support
 ULS 2/0 – Ultimate Limit State; 2 fasteners at the end support
 ULS 1/2 – Ultimate Limit State; 1 fastener at the end support / 2 fasteners at intermediate support
 ULS 1/3 – Ultimate Limit State; 1 fastener at the end support / 3 fasteners at intermediate support
 ULS 2/2 – Ultimate Limit State; 2 fasteners at the end support / 2 fasteners at intermediate support
 ULS 2/3 – Ultimate Limit State; 2 fasteners at the end support / 3 fasteners at intermediate support
 SLS – Serviceability Limit State

| Static scheme | Colour group | Criterion | Characteristic load [kN/m ²] | | | | | | | | | | | | | |
|--------------------|--------------|-----------|--|------|------|-------|-------|------|------|------|------|------|------|------|------|------|
| | | | -1.2 | -1.0 | -0.8 | -0.6 | -0.4 | 0.6 | 0.8 | 1.0 | 1.3 | 1.6 | 2.0 | 2.2 | 2.6 | 3.4 |
| Single-span system | I | ULS 1/0 | 2.01 | 2.44 | 3.11 | 4.29 | 6.91 | 5.61 | 4.70 | 4.03 | 3.28 | 2.73 | 2.23 | 2.04 | 1.76 | 1.40 |
| | | ULS 2/0 | 3.99 | 4.75 | 5.35 | 6.27 | 7.95 | 5.61 | 4.70 | 4.03 | 3.28 | 2.73 | 2.23 | 2.04 | 1.76 | 1.40 |
| | | L/100 | 5.81 | 6.30 | 6.96 | 7.93 | 9.61 | 6.05 | 5.38 | 4.87 | 4.31 | 3.89 | 3.47 | 3.30 | 3.02 | 2.61 |
| | | SLS L/150 | 4.91 | 5.35 | 5.94 | 6.73 | 7.48 | 4.97 | 4.38 | 3.94 | 3.46 | 3.11 | 2.77 | 2.63 | 2.41 | 2.09 |
| | | L/200 | 4.34 | 4.69 | 5.15 | 5.82 | 6.13 | 4.29 | 3.75 | 3.37 | 2.95 | 2.65 | 2.36 | 2.25 | 2.06 | 1.80 |
| | | ULS 1/0 | 2.01 | 2.44 | 3.11 | 4.29 | 6.91 | 5.61 | 4.70 | 4.03 | 3.28 | 2.73 | 2.23 | 2.04 | 1.76 | 1.40 |
| | II | ULS 2/0 | 3.99 | 4.75 | 5.35 | 6.27 | 7.95 | 5.61 | 4.70 | 4.03 | 3.28 | 2.73 | 2.23 | 2.04 | 1.76 | 1.40 |
| | | L/100 | 5.81 | 6.30 | 6.96 | 7.84 | 9.38 | 6.05 | 5.38 | 4.87 | 4.31 | 3.89 | 3.47 | 3.30 | 3.02 | 2.61 |
| | | SLS L/150 | 4.84 | 5.22 | 5.71 | 6.42 | 7.47 | 4.97 | 4.38 | 3.94 | 3.46 | 3.11 | 2.77 | 2.63 | 2.41 | 2.09 |
| | | L/200 | 4.16 | 4.48 | 4.91 | 5.45 | 6.13 | 4.29 | 3.75 | 3.37 | 2.95 | 2.65 | 2.36 | 2.25 | 2.06 | 1.80 |
| | | ULS 1/0 | 2.01 | 2.44 | 3.11 | 4.29 | 6.91 | 5.61 | 4.70 | 4.03 | 3.28 | 2.73 | 2.23 | 2.04 | 1.76 | 1.40 |
| | | ULS 2/0 | 3.99 | 4.75 | 5.35 | 6.27 | 7.95 | 5.61 | 4.70 | 4.03 | 3.28 | 2.73 | 2.23 | 2.04 | 1.76 | 1.40 |
| III | L/100 | 5.68 | 6.09 | 6.64 | 7.44 | 8.78 | 6.05 | 5.38 | 4.87 | 4.31 | 3.89 | 3.47 | 3.30 | 3.02 | 2.61 | |
| | SLS L/150 | 4.60 | 4.93 | 5.29 | 5.72 | 6.36 | 4.97 | 4.38 | 3.94 | 3.46 | 3.11 | 2.77 | 2.63 | 2.41 | 2.09 | |
| | L/200 | 3.87 | 4.06 | 4.28 | 4.58 | 4.99 | 4.29 | 3.75 | 3.37 | 2.95 | 2.65 | 2.36 | 2.25 | 2.06 | 1.80 | |
| | ULS 1/2 | 1.33 | 1.59 | 2.03 | 2.84 | 5.02 | 5.04 | 4.26 | 3.73 | 3.17 | 2.73 | 2.23 | 2.04 | 1.76 | 1.41 | |
| | ULS 1/3 | 1.48 | 1.75 | 2.36 | 3.61 | 6.91 | 5.04 | 4.26 | 3.73 | 3.17 | 2.73 | 2.23 | 2.04 | 1.76 | 1.41 | |
| | ULS 2/3 | 2.22 | 2.73 | 3.55 | 5.06 | 6.98 | 5.04 | 4.26 | 3.73 | 3.17 | 2.73 | 2.23 | 2.04 | 1.76 | 1.41 | |
| Double-span system | I | L/100 | 7.48 | 8.15 | 9.04 | 10.37 | 12.69 | 7.59 | 6.70 | 6.05 | 5.34 | 4.81 | 4.29 | 4.09 | 3.75 | 3.27 |
| | | SLS L/150 | 6.26 | 6.86 | 7.65 | 8.83 | 10.88 | 6.18 | 5.42 | 4.88 | 4.29 | 3.87 | 3.45 | 3.29 | 3.03 | 2.66 |
| | | L/200 | 5.49 | 6.03 | 6.76 | 7.84 | 9.73 | 5.31 | 4.65 | 4.17 | 3.67 | 3.31 | 2.97 | 2.83 | 2.62 | 2.31 |
| | | ULS 1/2 | 1.19 | 1.40 | 1.75 | 2.45 | 4.52 | 5.04 | 4.26 | 3.73 | 3.17 | 2.73 | 2.23 | 2.04 | 1.76 | 1.41 |
| | | ULS 1/3 | 1.48 | 1.75 | 2.32 | 3.61 | 6.92 | 5.04 | 4.26 | 3.73 | 3.17 | 2.73 | 2.23 | 2.04 | 1.76 | 1.41 |
| | | ULS 2/3 | 2.05 | 2.53 | 3.31 | 4.80 | 6.99 | 5.04 | 4.26 | 3.73 | 3.17 | 2.73 | 2.23 | 2.04 | 1.76 | 1.41 |
| | II | L/100 | 7.48 | 8.15 | 9.04 | 10.37 | 12.69 | 7.59 | 6.70 | 6.05 | 5.34 | 4.81 | 4.29 | 4.09 | 3.75 | 3.27 |
| | | SLS L/150 | 6.26 | 6.86 | 7.65 | 8.83 | 10.88 | 6.18 | 5.42 | 4.88 | 4.29 | 3.87 | 3.45 | 3.29 | 3.03 | 2.66 |
| | | L/200 | 5.49 | 6.03 | 6.76 | 7.84 | 9.73 | 5.31 | 4.65 | 4.17 | 3.67 | 3.31 | 2.97 | 2.83 | 2.62 | 2.31 |
| | | ULS 1/3 | 1.48 | 1.70 | 2.32 | 3.60 | 5.94 | 5.04 | 4.26 | 3.73 | 3.17 | 2.73 | 2.23 | 2.04 | 1.76 | 1.41 |
| | | ULS 2/3 | 1.79 | 2.21 | 2.91 | 4.12 | 5.94 | 5.04 | 4.26 | 3.73 | 3.17 | 2.73 | 2.23 | 2.04 | 1.76 | 1.41 |
| | | L/100 | 7.48 | 8.15 | 9.04 | 10.37 | 12.69 | 7.59 | 6.70 | 6.05 | 5.34 | 4.81 | 4.29 | 4.09 | 3.75 | 3.27 |
| Multi-span system | I | SLS L/150 | 6.26 | 6.86 | 7.65 | 8.83 | 10.88 | 6.18 | 5.42 | 4.88 | 4.29 | 3.87 | 3.45 | 3.29 | 3.03 | 2.66 |
| | | L/200 | 5.49 | 6.03 | 6.76 | 7.84 | 9.73 | 5.31 | 4.65 | 4.17 | 3.67 | 3.31 | 2.97 | 2.83 | 2.62 | 2.31 |
| | | ULS 1/2 | 0.90 | 1.00 | 1.18 | 3.64 | 6.56 | 5.47 | 4.61 | 4.02 | 3.28 | 2.73 | 2.23 | 2.04 | 1.76 | 1.40 |
| | | ULS 2/2 | 1.69 | 2.09 | 2.71 | 3.89 | 6.56 | 5.47 | 4.61 | 4.02 | 3.28 | 2.73 | 2.23 | 2.04 | 1.76 | 1.40 |
| | | ULS 2/3 | 2.78 | 3.42 | 4.43 | 6.22 | 7.95 | 5.47 | 4.61 | 4.02 | 3.28 | 2.73 | 2.23 | 2.04 | 1.76 | 1.40 |
| | | L/100 | 7.07 | 7.68 | 8.51 | 9.72 | 11.86 | 7.29 | 6.46 | 5.85 | 5.18 | 4.69 | 4.19 | 3.99 | 3.67 | 3.20 |
| | II | SLS L/150 | 5.95 | 6.49 | 7.23 | 8.30 | 10.20 | 5.97 | 5.26 | 4.75 | 4.18 | 3.78 | 3.38 | 3.22 | 2.96 | 2.59 |
| | | L/200 | 5.24 | 5.74 | 6.41 | 7.40 | 9.14 | 5.15 | 4.53 | 4.08 | 3.59 | 3.24 | 2.90 | 2.77 | 2.55 | 2.24 |
| | | ULS 1/2 | 0.90 | 1.00 | 1.18 | 3.64 | 6.41 | 5.47 | 4.61 | 4.02 | 3.28 | 2.73 | 2.23 | 2.04 | 1.76 | 1.40 |
| | | ULS 2/2 | 1.58 | 1.96 | 2.56 | 3.73 | 6.41 | 5.47 | 4.61 | 4.02 | 3.28 | 2.73 | 2.23 | 2.04 | 1.76 | 1.40 |
| | | ULS 2/3 | 2.68 | 3.32 | 4.33 | 6.11 | 7.98 | 5.47 | 4.61 | 4.02 | 3.28 | 2.73 | 2.23 | 2.04 | 1.76 | 1.40 |
| | | L/100 | 7.07 | 7.68 | 8.51 | 9.72 | 11.86 | 7.29 | 6.46 | 5.85 | 5.18 | 4.69 | 4.19 | 3.99 | 3.67 | 3.20 |
| III | SLS L/150 | 5.95 | 6.49 | 7.23 | 8.30 | 10.11 | 5.97 | 5.26 | 4.75 | 4.18 | 3.78 | 3.38 | 3.22 | 2.96 | 2.59 | |
| | L/200 | 5.24 | 5.74 | 6.36 | 7.23 | 8.74 | 5.15 | 4.53 | 4.08 | 3.59 | 3.24 | 2.90 | 2.77 | 2.55 | 2.24 | |
| | ULS 1/2 | 0.90 | 1.00 | 1.18 | 3.47 | 6.17 | 5.47 | 4.61 | 4.02 | 3.28 | 2.73 | 2.23 | 2.04 | 1.76 | 1.40 | |
| | ULS 2/2 | 1.39 | 1.74 | 2.31 | 3.47 | 6.17 | 5.47 | 4.61 | 4.02 | 3.28 | 2.73 | 2.23 | 2.04 | 1.76 | 1.40 | |
| | ULS 2/3 | 2.53 | 3.17 | 4.18 | 5.48 | 8.02 | 5.47 | 4.61 | 4.02 | 3.28 | 2.73 | 2.23 | 2.04 | 1.76 | 1.40 | |
| | L/100 | 7.07 | 7.68 | 8.51 | 9.72 | 11.86 | 7.29 | 6.46 | 5.85 | 5.18 | 4.69 | 4.19 | 3.99 | 3.67 | 3.20 | |

● **Maximum allowed span for uniform (snow) characteristic load [kN/m²] Ruukki SP2C140/100 PU/PIR**

Table 17

External facing thickness: 0.50 mm
 Internal facing thickness: 0.40 mm
 External temperature: +55 °C; +65 °C; +80 °C/-20 °C (summer/winter)
 Internal temperature: +20 °C/+20 °C (summer/winter)
 Min. end support width: 40 mm
 Min. intermediate support width: 60 mm
 Min. number of fasteners at end support: 1, 2 or 3
 Min. number of fasteners at intermediate support: 2 or 3

ULS – Ultimate Limit State
 ULS 1/0 – Ultimate Limit State; 1 fastener at the end support
 ULS 2/0 – Ultimate Limit State; 2 fasteners at the end support
 ULS 1/2 – Ultimate Limit State; 1 fastener at the end support / 2 fasteners at intermediate support
 ULS 1/3 – Ultimate Limit State; 1 fastener at the end support / 3 fasteners at intermediate support
 ULS 2/2 – Ultimate Limit State; 2 fasteners at the end support / 2 fasteners at intermediate support
 ULS 2/3 – Ultimate Limit State; 2 fasteners at the end support / 3 fasteners at intermediate support
 SLS – Serviceability Limit State

| Static scheme | Colour group | Criterion | Characteristic load [kN/m ²] | | | | | | | | | | | | | |
|--------------------|--------------|-----------|--|------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| | | | -1.2 | -1.0 | -0.8 | -0.6 | -0.4 | 0.6 | 0.8 | 1.0 | 1.3 | 1.6 | 2.0 | 2.2 | 2.6 | 3.4 |
| Single-span system | I | ULS 1/0 | 2.02 | 2.45 | 3.12 | 4.31 | 6.99 | 6.42 | 5.41 | 4.66 | 3.82 | 3.17 | 2.55 | 2.31 | 1.94 | 1.49 |
| | | ULS 2/0 | 4.01 | 4.87 | 5.72 | 6.72 | 8.55 | 6.42 | 5.41 | 4.66 | 3.82 | 3.17 | 2.55 | 2.31 | 1.94 | 1.49 |
| | | L/100 | 6.64 | 7.20 | 7.96 | 9.07 | 11.03 | 6.89 | 6.12 | 5.55 | 4.90 | 4.41 | 3.91 | 3.72 | 3.38 | 2.90 |
| | | SLS L/150 | 5.62 | 6.13 | 6.79 | 7.76 | 8.63 | 5.65 | 4.97 | 4.47 | 3.91 | 3.49 | 3.08 | 2.92 | 2.66 | 2.28 |
| | | L/200 | 4.96 | 5.40 | 5.95 | 6.73 | 7.11 | 4.86 | 4.25 | 3.79 | 3.30 | 2.94 | 2.60 | 2.46 | 2.25 | 1.94 |
| | | ULS 1/0 | 2.02 | 2.45 | 3.12 | 4.31 | 6.99 | 6.42 | 5.41 | 4.66 | 3.82 | 3.17 | 2.55 | 2.31 | 1.94 | 1.49 |
| | II | ULS 2/0 | 4.01 | 4.87 | 5.72 | 6.72 | 8.55 | 6.42 | 5.41 | 4.66 | 3.82 | 3.17 | 2.55 | 2.31 | 1.94 | 1.49 |
| | | L/100 | 6.64 | 7.20 | 7.95 | 9.04 | 10.88 | 6.89 | 6.12 | 5.55 | 4.90 | 4.41 | 3.91 | 3.72 | 3.38 | 2.90 |
| | | SLS L/150 | 5.57 | 6.01 | 6.59 | 7.43 | 8.63 | 5.65 | 4.97 | 4.47 | 3.91 | 3.49 | 3.08 | 2.92 | 2.66 | 2.28 |
| | | L/200 | 4.80 | 5.17 | 5.67 | 6.38 | 7.11 | 4.86 | 4.25 | 3.79 | 3.30 | 2.94 | 2.60 | 2.46 | 2.25 | 1.94 |
| | | ULS 1/0 | 2.02 | 2.45 | 3.12 | 4.31 | 6.99 | 6.42 | 5.41 | 4.66 | 3.82 | 3.17 | 2.55 | 2.31 | 1.94 | 1.49 |
| | | ULS 2/0 | 4.01 | 4.87 | 5.72 | 6.72 | 8.55 | 6.42 | 5.41 | 4.66 | 3.82 | 3.17 | 2.55 | 2.31 | 1.94 | 1.49 |
| III | L/100 | 6.54 | 7.03 | 7.67 | 8.60 | 10.22 | 6.89 | 6.12 | 5.55 | 4.90 | 4.41 | 3.91 | 3.72 | 3.38 | 2.90 | |
| | SLS L/150 | 5.30 | 5.70 | 6.19 | 6.73 | 7.57 | 5.65 | 4.97 | 4.47 | 3.91 | 3.49 | 3.08 | 2.92 | 2.66 | 2.28 | |
| | L/200 | 4.49 | 4.73 | 5.02 | 5.40 | 5.92 | 4.86 | 4.25 | 3.79 | 3.30 | 2.94 | 2.60 | 2.46 | 2.25 | 1.94 | |
| | ULS 1/2 | 1.30 | 1.52 | 1.82 | 2.74 | 4.80 | 5.43 | 4.57 | 3.98 | 3.37 | 2.94 | 2.54 | 2.30 | 1.94 | 1.50 | |
| | ULS 1/3 | 1.36 | 1.52 | 1.81 | 2.87 | 6.71 | 5.43 | 4.57 | 3.98 | 3.37 | 2.94 | 2.54 | 2.30 | 1.94 | 1.50 | |
| | ULS 2/3 | 2.18 | 2.67 | 3.46 | 4.95 | 6.96 | 5.43 | 4.57 | 3.98 | 3.37 | 2.94 | 2.54 | 2.30 | 1.94 | 1.50 | |
| Double-span system | I | L/100 | 8.55 | 9.31 | 10.34 | 11.86 | 14.55 | 8.59 | 7.57 | 6.82 | 5.98 | 5.37 | 4.77 | 4.53 | 4.14 | 3.57 |
| | | SLS L/150 | 7.15 | 7.83 | 8.75 | 10.11 | 12.49 | 6.95 | 6.08 | 5.44 | 4.76 | 4.26 | 3.78 | 3.59 | 3.29 | 2.85 |
| | | L/200 | 6.26 | 6.89 | 7.73 | 8.98 | 11.17 | 5.93 | 5.18 | 4.62 | 4.04 | 3.62 | 3.22 | 3.06 | 2.81 | 2.45 |
| | | ULS 1/2 | 1.17 | 1.33 | 1.55 | 2.03 | 4.16 | 5.43 | 4.57 | 3.98 | 3.37 | 2.94 | 2.54 | 2.30 | 1.94 | 1.50 |
| | | ULS 1/3 | 1.36 | 1.52 | 1.82 | 2.86 | 6.70 | 5.43 | 4.57 | 3.98 | 3.37 | 2.94 | 2.54 | 2.30 | 1.94 | 1.50 |
| | | ULS 2/3 | 2.00 | 2.44 | 3.18 | 4.62 | 6.96 | 5.43 | 4.57 | 3.98 | 3.37 | 2.94 | 2.54 | 2.30 | 1.94 | 1.50 |
| | II | L/100 | 8.55 | 9.31 | 10.34 | 11.86 | 14.55 | 8.59 | 7.57 | 6.82 | 5.98 | 5.37 | 4.77 | 4.53 | 4.14 | 3.57 |
| | | SLS L/150 | 7.15 | 7.83 | 8.75 | 10.11 | 12.49 | 6.95 | 6.08 | 5.44 | 4.76 | 4.26 | 3.78 | 3.59 | 3.29 | 2.85 |
| | | L/200 | 6.26 | 6.89 | 7.73 | 8.98 | 11.17 | 5.93 | 5.18 | 4.62 | 4.04 | 3.62 | 3.22 | 3.06 | 2.81 | 2.45 |
| | | ULS 1/3 | 1.36 | 1.52 | 1.77 | 2.87 | 6.18 | 5.43 | 4.57 | 3.98 | 3.37 | 2.94 | 2.54 | 2.30 | 1.94 | 1.50 |
| | | ULS 2/3 | 1.73 | 2.09 | 2.71 | 4.05 | 6.18 | 5.43 | 4.57 | 3.98 | 3.37 | 2.94 | 2.54 | 2.30 | 1.94 | 1.50 |
| | | L/100 | 8.55 | 9.31 | 10.34 | 11.86 | 14.55 | 8.59 | 7.57 | 6.82 | 5.98 | 5.37 | 4.77 | 4.53 | 4.14 | 3.57 |
| Multi-span system | I | SLS L/150 | 7.15 | 7.83 | 8.75 | 10.11 | 12.49 | 6.95 | 6.08 | 5.44 | 4.76 | 4.26 | 3.78 | 3.59 | 3.29 | 2.85 |
| | | L/200 | 6.26 | 6.89 | 7.73 | 8.98 | 11.17 | 5.93 | 5.18 | 4.62 | 4.04 | 3.62 | 3.22 | 3.06 | 2.81 | 2.45 |
| | | ULS 1/2 | 0.81 | 0.87 | 0.95 | 1.06 | 6.53 | 5.86 | 4.92 | 4.27 | 3.61 | 3.16 | 2.55 | 2.31 | 1.94 | 1.49 |
| | | ULS 2/2 | 1.65 | 2.03 | 2.64 | 3.81 | 6.53 | 5.86 | 4.92 | 4.27 | 3.61 | 3.16 | 2.55 | 2.31 | 1.94 | 1.49 |
| | | ULS 2/3 | 2.73 | 3.37 | 4.39 | 6.19 | 8.55 | 5.86 | 4.92 | 4.27 | 3.61 | 3.16 | 2.55 | 2.31 | 1.94 | 1.49 |
| | | L/100 | 8.07 | 8.78 | 9.72 | 11.12 | 13.59 | 8.25 | 7.31 | 6.61 | 5.83 | 5.25 | 4.67 | 4.44 | 4.06 | 3.51 |
| | II | SLS L/150 | 6.79 | 7.42 | 8.26 | 9.50 | 11.70 | 6.74 | 5.92 | 5.32 | 4.66 | 4.18 | 3.72 | 3.53 | 3.23 | 2.80 |
| | | L/200 | 5.98 | 6.55 | 7.33 | 8.47 | 10.48 | 5.78 | 5.06 | 4.54 | 3.97 | 3.56 | 3.16 | 3.01 | 2.75 | 2.39 |
| | | ULS 1/2 | 0.60 | 0.65 | 0.71 | 0.81 | 0.98 | 5.86 | 4.92 | 4.27 | 3.61 | 3.16 | 2.55 | 2.31 | 1.94 | 1.49 |
| | | ULS 2/2 | 1.52 | 1.88 | 2.49 | 3.61 | 6.33 | 5.86 | 4.92 | 4.27 | 3.61 | 3.16 | 2.55 | 2.31 | 1.94 | 1.49 |
| | | ULS 2/3 | 2.62 | 3.26 | 4.27 | 6.08 | 8.57 | 5.86 | 4.92 | 4.27 | 3.61 | 3.16 | 2.55 | 2.31 | 1.94 | 1.49 |
| | | L/100 | 8.07 | 8.78 | 9.72 | 11.12 | 13.59 | 8.25 | 7.31 | 6.61 | 5.83 | 5.25 | 4.67 | 4.44 | 4.06 | 3.51 |
| III | SLS L/150 | 6.79 | 7.42 | 8.26 | 9.50 | 11.70 | 6.74 | 5.92 | 5.32 | 4.66 | 4.18 | 3.72 | 3.53 | 3.23 | 2.80 | |
| | L/200 | 5.98 | 6.55 | 7.32 | 8.35 | 10.15 | 5.78 | 5.06 | 4.54 | 3.97 | 3.56 | 3.16 | 3.01 | 2.75 | 2.39 | |
| | ULS 1/2 | 0.82 | 0.87 | 0.95 | 3.09 | 6.01 | 5.86 | 4.92 | 4.27 | 3.61 | 3.16 | 2.55 | 2.31 | 1.94 | 1.49 | |
| | ULS 2/2 | 1.33 | 1.63 | 2.14 | 3.27 | 6.01 | 5.86 | 4.92 | 4.27 | 3.61 | 3.16 | 2.55 | 2.31 | 1.94 | 1.49 | |
| | ULS 2/3 | 2.44 | 3.07 | 4.07 | 5.71 | 8.60 | 5.86 | 4.92 | 4.27 | 3.61 | 3.16 | 2.55 | 2.31 | 1.94 | 1.49 | |
| | L/100 | 8.07 | 8.78 | 9.72 | 11.12 | 13.59 | 8.25 | 7.31 | 6.61 | 5.83 | 5.25 | 4.67 | 4.44 | 4.06 | 3.51 | |

● **Maximum allowed span for uniform (snow) characteristic load [kN/m²] Ruukki SP2C160/120 PU/PIR**

Table 18

External facing thickness: 0.50 mm
 Internal facing thickness: 0.40 mm
 External temperature: +55 °C; +65 °C; +80 °C/-20 °C (summer/winter)
 Internal temperature: +20 °C/+20 °C (summer/winter)
 Min. end support width: 40 mm
 Min. intermediate support width: 60 mm
 Min. number of fasteners at end support: 1, 2 or 3
 Min. number of fasteners at intermediate support: 2 or 3

ULS – Ultimate Limit State, to find span length put characteristic load (during span length calculation characteristic load is automatically corrected by safety factor)
 ULS 1/0 – Ultimate Limit State; 1 fastener at the end support
 ULS 2/0 – Ultimate Limit State; 2 fasteners at the end support
 ULS 1/2 – Ultimate Limit State; 1 fastener at the end support / 2 fasteners at intermediate support
 ULS 1/3 – Ultimate Limit State; 1 fastener at the end support / 3 fasteners at intermediate support
 ULS 2/3 – Ultimate Limit State; 2 fasteners at the end support / 3 fasteners at intermediate support
 SLS – Serviceability Limit State, to find span length put characteristic load

| Static scheme | Colour group | Criterion | Characteristic load [kN/m ²] | | | | | | | | | | | | |
|--------------------|--------------|-----------|--|------|-------|-------|------|------|------|------|------|------|------|------|------|
| | | | -1.2 | -1.0 | -0.8 | -0.4 | 0.6 | 0.8 | 1.0 | 1.3 | 1.6 | 2.0 | 2.2 | 2.6 | 3.4 |
| Single-span system | I | ULS 1/0 | 3.74 | 4.48 | 5.59 | 9.16 | 8.93 | 7.65 | 6.77 | 5.29 | 4.30 | 3.44 | 3.12 | 2.64 | 2.02 |
| | | ULS 2/0 | 2.03 | 2.42 | 3.00 | 6.39 | 7.02 | 5.97 | 5.10 | 4.25 | 3.64 | 2.91 | 2.64 | 2.24 | 1.71 |
| | | L/200 | 5.39 | 5.79 | 6.29 | 7.97 | 6.81 | 6.16 | 5.68 | 5.14 | 4.71 | 4.22 | 4.02 | 3.68 | 3.18 |
| | | SLS L/250 | 4.78 | 5.14 | 5.60 | 6.93 | 5.94 | 5.46 | 5.03 | 4.54 | 4.16 | 3.76 | 3.57 | 3.26 | 2.79 |
| | II | ULS 1/0 | 3.74 | 4.48 | 5.59 | 9.17 | 8.94 | 7.65 | 6.76 | 5.29 | 4.30 | 3.44 | 3.12 | 2.65 | 2.02 |
| | | ULS 2/0 | 1.88 | 2.26 | 2.82 | 5.60 | 8.93 | 7.65 | 6.77 | 5.29 | 4.30 | 3.44 | 3.12 | 2.64 | 2.02 |
| | | L/200 | 5.20 | 5.57 | 6.03 | 7.17 | 6.81 | 6.16 | 5.68 | 5.14 | 4.71 | 4.22 | 4.02 | 3.68 | 3.18 |
| | | SLS L/250 | 4.58 | 4.92 | 5.26 | 6.11 | 5.94 | 5.46 | 5.03 | 4.54 | 4.16 | 3.76 | 3.57 | 3.26 | 2.79 |
| | III | ULS 1/0 | 3.74 | 4.48 | 5.59 | 9.20 | 8.93 | 7.65 | 6.77 | 5.29 | 4.30 | 3.44 | 3.12 | 2.64 | 2.02 |
| | | ULS 2/0 | 1.88 | 2.26 | 2.81 | 5.60 | 8.93 | 7.65 | 6.76 | 5.29 | 4.30 | 3.44 | 3.12 | 2.65 | 2.02 |
| | | L/200 | 4.88 | 5.10 | 5.37 | 6.10 | 6.81 | 6.16 | 5.68 | 5.14 | 4.71 | 4.22 | 4.01 | 3.68 | 3.18 |
| | | SLS L/250 | 4.16 | 4.34 | 4.55 | 5.11 | 5.94 | 5.46 | 5.03 | 4.54 | 4.16 | 3.76 | 3.57 | 3.26 | 2.79 |
| Double-span system | I | ULS 1/2 | 2.03 | 2.42 | 3.00 | 6.39 | 7.02 | 5.97 | 5.10 | 4.25 | 3.64 | 2.91 | 2.64 | 2.24 | 1.71 |
| | | ULS 1/3 | 1.23 | 1.34 | 1.48 | 2.16 | 7.02 | 5.97 | 5.10 | 4.25 | 3.64 | 2.91 | 2.64 | 2.24 | 1.71 |
| | | ULS 2/3 | 1.23 | 1.34 | 1.48 | 2.16 | 7.02 | 5.97 | 5.10 | 4.25 | 3.64 | 2.91 | 2.64 | 2.24 | 1.71 |
| | | SLS L/200 | 6.74 | 7.37 | 8.18 | 11.04 | 9.29 | 8.18 | 7.37 | 6.48 | 5.82 | 5.17 | 4.91 | 4.47 | 3.82 |
| | II | L/250 | 6.02 | 6.61 | 7.37 | 10.05 | 8.42 | 7.37 | 6.61 | 5.78 | 5.17 | 4.57 | 4.32 | 3.93 | 3.36 |
| | | ULS 1/2 | 1.85 | 2.20 | 2.70 | 5.95 | 7.01 | 5.97 | 5.10 | 4.25 | 3.64 | 2.91 | 2.64 | 2.24 | 1.71 |
| | | ULS 1/3 | 1.24 | 1.34 | 1.48 | 2.16 | 7.02 | 5.97 | 5.10 | 4.25 | 3.64 | 2.91 | 2.64 | 2.24 | 1.71 |
| | | ULS 2/3 | 1.09 | 1.20 | 1.33 | 1.90 | 7.02 | 5.97 | 5.10 | 4.25 | 3.64 | 2.91 | 2.64 | 2.24 | 1.71 |
| | III | L/200 | 6.74 | 7.37 | 8.18 | 11.04 | 9.29 | 8.18 | 7.37 | 6.48 | 5.82 | 5.17 | 4.91 | 4.47 | 3.82 |
| | | SLS L/250 | 6.02 | 6.61 | 7.37 | 10.05 | 8.42 | 7.37 | 6.61 | 5.78 | 5.17 | 4.57 | 4.32 | 3.93 | 3.36 |
| | | ULS 1/3 | 1.53 | 1.71 | 1.98 | 5.17 | 7.02 | 5.97 | 5.10 | 4.25 | 3.64 | 2.91 | 2.64 | 2.24 | 1.71 |
| | | ULS 1/3 | 1.23 | 1.34 | 1.48 | 2.16 | 7.02 | 5.97 | 5.10 | 4.25 | 3.64 | 2.91 | 2.64 | 2.24 | 1.71 |
| Multi-span system | I | ULS 2/3 | 1.09 | 1.20 | 1.33 | 1.90 | 7.02 | 5.97 | 5.10 | 4.25 | 3.64 | 2.91 | 2.64 | 2.24 | 1.71 |
| | | L/200 | 6.74 | 7.37 | 8.18 | 10.88 | 9.30 | 8.17 | 7.37 | 6.48 | 5.82 | 5.17 | 4.91 | 4.47 | 3.82 |
| | | SLS L/250 | 6.02 | 6.61 | 7.35 | 9.68 | 8.42 | 7.37 | 6.61 | 5.77 | 5.17 | 4.57 | 4.32 | 3.93 | 3.36 |
| | | ULS 1/2 | 3.10 | 3.75 | 4.79 | 10.20 | 6.80 | 5.69 | 4.93 | 4.13 | 3.40 | 2.76 | 2.52 | 2.14 | 1.66 |
| | II | ULS 1/3 | 1.24 | 1.47 | 1.91 | 6.67 | 6.79 | 5.69 | 4.93 | 4.13 | 3.40 | 2.76 | 2.52 | 2.14 | 1.66 |
| | | ULS 2/3 | 1.24 | 1.47 | 1.91 | 6.67 | 6.79 | 5.69 | 4.93 | 4.13 | 3.40 | 2.76 | 2.52 | 2.14 | 1.66 |
| | | L/200 | 6.45 | 7.03 | 7.76 | 10.39 | 8.80 | 7.77 | 7.03 | 6.21 | 5.62 | 5.01 | 4.77 | 4.36 | 3.75 |
| | | SLS L/250 | 5.79 | 6.33 | 7.03 | 9.49 | 7.99 | 7.03 | 6.32 | 5.57 | 5.01 | 4.45 | 4.22 | 3.85 | 3.29 |
| | III | ULS 1/2 | 3.09 | 3.76 | 4.79 | 10.20 | 6.79 | 5.69 | 4.93 | 4.13 | 3.40 | 2.76 | 2.52 | 2.14 | 1.66 |
| | | ULS 1/3 | 1.24 | 1.47 | 1.91 | 6.67 | 6.79 | 5.69 | 4.93 | 4.13 | 3.40 | 2.76 | 2.52 | 2.14 | 1.66 |
| | | ULS 2/3 | 1.24 | 1.47 | 1.91 | 6.67 | 6.79 | 5.69 | 4.93 | 4.13 | 3.40 | 2.76 | 2.52 | 2.14 | 1.66 |
| | | L/200 | 6.45 | 7.03 | 7.76 | 10.32 | 8.80 | 7.77 | 7.03 | 6.21 | 5.61 | 5.01 | 4.77 | 4.36 | 3.75 |
| III | SLS L/250 | 5.79 | 6.32 | 7.03 | 9.25 | 7.99 | 7.03 | 6.33 | 5.56 | 5.00 | 4.45 | 4.22 | 3.85 | 3.29 | |
| | ULS 1/2 | 3.09 | 3.76 | 4.79 | 10.20 | 6.79 | 5.69 | 4.93 | 4.13 | 3.40 | 2.76 | 2.52 | 2.14 | 1.66 | |
| | ULS 1/3 | 1.24 | 1.47 | 1.91 | 6.67 | 6.79 | 5.69 | 4.93 | 4.13 | 3.40 | 2.76 | 2.52 | 2.14 | 1.66 | |
| | ULS 2/3 | 1.24 | 1.47 | 1.91 | 6.67 | 6.79 | 5.69 | 4.93 | 4.13 | 3.40 | 2.76 | 2.52 | 2.14 | 1.66 | |
| III | L/200 | 6.45 | 7.03 | 7.71 | 9.88 | 8.80 | 7.77 | 7.03 | 6.21 | 5.61 | 5.01 | 4.77 | 4.36 | 3.75 | |
| | SLS L/250 | 5.79 | 6.25 | 6.84 | 8.74 | 7.99 | 7.03 | 6.33 | 5.57 | 5.00 | 4.45 | 4.22 | 3.85 | 3.30 | |

● **Maximum allowed span for uniform (snow) characteristic load [kN/m²] Ruukki SP2C210/170 PU/PIR**

Table 19

External facing thickness: 0.50 mm
 Internal facing thickness: 0.40 mm
 External temperature: +55 °C; +65 °C; +80 °C/-20 °C (summer/winter)
 Internal temperature: +20 °C/+20 °C (summer/winter)
 Min. end support width: 40 mm
 Min. intermediate support width: 60 mm
 Min. number of fasteners at end support: 2 or 3
 Min. number of fasteners at intermediate support: 3 or 4

ULS – Ultimate Limit State
 ULS 2/0 – Ultimate Limit State; 2 fasteners at the end support
 ULS 1/0 – Ultimate Limit State; 1 fasteners at the end support
 ULS 2/3 – Ultimate Limit State; 2 fasteners at the end support / 3 fasteners at intermediate support
 ULS 1/3 – Ultimate Limit State; 1 fasteners at the end support / 3 fasteners at intermediate support
 ULS 1/2 – Ultimate Limit State; 1 fasteners at the end support / 2 fasteners at intermediate support
 SLS – Serviceability Limit State

| Static scheme | Colour group | Criterion | Characteristic load [kN/m ²] | | | | | | | | | | | | | |
|--------------------|--------------|-----------|--|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| | | | -1.2 | -1.0 | -0.8 | -0.6 | -0.4 | 0.6 | 0.8 | 1.0 | 1.3 | 1.6 | 2.0 | 2.2 | 2.6 | 3.4 |
| Single-span system | I | ULS 2/0 | 4.08 | 4.98 | 6.39 | 8.39 | 10.83 | 8.32 | 7.03 | 6.03 | 4.88 | 3.97 | 3.03 | 2.67 | 2.15 | 1.58 |
| | | ULS 1/0 | 2.06 | 2.50 | 3.21 | 4.48 | 7.46 | 8.32 | 7.03 | 6.03 | 4.88 | 3.97 | 3.03 | 2.67 | 2.15 | 1.58 |
| | | L/100 | 7.37 | 8.30 | 9.58 | 11.49 | 14.94 | 8.89 | 7.80 | 6.98 | 6.05 | 5.36 | 4.67 | 4.39 | 3.94 | 3.30 |
| | | SLS L/150 | 5.74 | 6.56 | 7.69 | 9.40 | 12.07 | 7.07 | 6.12 | 5.40 | 4.63 | 4.07 | 3.53 | 3.32 | 2.98 | 2.52 |
| | | L/200 | 4.74 | 5.46 | 6.48 | 8.04 | 10.05 | 5.92 | 5.08 | 4.46 | 3.80 | 3.34 | 2.90 | 2.73 | 2.46 | 2.10 |
| | | ULS 2/0 | 4.08 | 4.98 | 6.39 | 8.39 | 10.83 | 8.32 | 7.03 | 6.04 | 4.88 | 3.97 | 3.03 | 2.67 | 2.15 | 1.58 |
| | II | ULS 1/0 | 2.06 | 2.50 | 3.21 | 4.48 | 7.46 | 8.32 | 7.03 | 6.03 | 4.88 | 3.97 | 3.03 | 2.68 | 2.15 | 1.58 |
| | | L/100 | 7.37 | 8.30 | 9.58 | 11.48 | 14.95 | 8.89 | 7.80 | 6.98 | 6.05 | 5.36 | 4.67 | 4.39 | 3.94 | 3.30 |
| | | SLS L/150 | 5.74 | 6.56 | 7.69 | 9.39 | 12.07 | 7.07 | 6.12 | 5.41 | 4.63 | 4.07 | 3.53 | 3.32 | 2.98 | 2.52 |
| | | L/200 | 4.74 | 5.46 | 6.48 | 8.04 | 10.05 | 5.92 | 5.08 | 4.46 | 3.80 | 3.34 | 2.90 | 2.73 | 2.46 | 2.10 |
| | | ULS 2/0 | 4.08 | 4.98 | 6.39 | 8.40 | 10.83 | 8.32 | 7.03 | 6.03 | 4.88 | 3.97 | 3.03 | 2.67 | 2.15 | 1.58 |
| | | ULS 1/0 | 2.06 | 2.50 | 3.21 | 4.48 | 7.46 | 8.32 | 7.03 | 6.03 | 4.88 | 3.97 | 3.03 | 2.67 | 2.15 | 1.58 |
| III | L/100 | 7.37 | 8.31 | 9.58 | 11.49 | 14.94 | 8.89 | 7.80 | 6.98 | 6.05 | 5.36 | 4.67 | 4.39 | 3.94 | 3.30 | |
| | SLS L/150 | 5.74 | 6.56 | 7.69 | 9.40 | 12.07 | 7.07 | 6.12 | 5.40 | 4.63 | 4.07 | 3.53 | 3.32 | 2.98 | 2.52 | |
| | L/200 | 4.74 | 5.46 | 6.48 | 8.04 | 10.05 | 5.92 | 5.08 | 4.46 | 3.80 | 3.34 | 2.90 | 2.73 | 2.46 | 2.10 | |
| | ULS 2/3 | 2.96 | 3.59 | 4.56 | 6.27 | 7.96 | 6.50 | 5.45 | 4.72 | 3.97 | 3.43 | 2.95 | 2.67 | 2.15 | 1.58 | |
| | ULS 1/3 | 1.66 | 1.94 | 2.37 | 3.21 | 5.97 | 6.50 | 5.46 | 4.73 | 3.97 | 3.43 | 2.95 | 2.67 | 2.15 | 1.58 | |
| | ULS 1/2 | 1.66 | 1.94 | 2.37 | 3.21 | 5.97 | 6.50 | 5.45 | 4.72 | 3.97 | 3.43 | 2.95 | 2.67 | 2.15 | 1.58 | |
| Double-span system | I | L/100 | 8.68 | 9.87 | 11.55 | 14.13 | 18.90 | 10.63 | 9.23 | 8.20 | 7.08 | 6.27 | 5.49 | 5.18 | 4.69 | 3.98 |
| | | SLS L/150 | 6.71 | 7.69 | 9.09 | 11.30 | 15.53 | 8.31 | 7.16 | 6.33 | 5.45 | 4.82 | 4.23 | 4.00 | 3.63 | 3.11 |
| | | L/200 | 5.57 | 6.39 | 7.59 | 9.54 | 13.36 | 6.93 | 5.94 | 5.26 | 4.52 | 4.02 | 3.54 | 3.36 | 3.05 | 2.64 |
| | | ULS 2/3 | 2.96 | 3.59 | 4.56 | 6.27 | 7.95 | 6.50 | 5.46 | 4.72 | 3.97 | 3.44 | 2.95 | 2.67 | 2.15 | 1.58 |
| | | ULS 1/3 | 1.66 | 1.93 | 2.37 | 3.21 | 5.97 | 6.50 | 5.45 | 4.73 | 3.97 | 3.43 | 2.95 | 2.67 | 2.15 | 1.58 |
| | | ULS 1/2 | 1.66 | 1.94 | 2.37 | 3.21 | 5.97 | 6.50 | 5.46 | 4.73 | 3.97 | 3.43 | 2.95 | 2.67 | 2.15 | 1.58 |
| | II | L/100 | 8.68 | 9.87 | 11.55 | 14.13 | 18.90 | 10.63 | 9.23 | 8.20 | 7.08 | 6.27 | 5.49 | 5.18 | 4.69 | 3.98 |
| | | SLS L/150 | 6.71 | 7.69 | 9.09 | 11.30 | 15.53 | 8.31 | 7.16 | 6.33 | 5.45 | 4.82 | 4.23 | 4.00 | 3.63 | 3.11 |
| | | L/200 | 5.57 | 6.39 | 7.59 | 9.54 | 13.36 | 6.93 | 5.94 | 5.26 | 4.52 | 4.02 | 3.54 | 3.36 | 3.05 | 2.64 |
| | | ULS 2/3 | 2.96 | 3.59 | 4.56 | 6.27 | 7.96 | 6.50 | 5.45 | 4.72 | 3.97 | 3.43 | 2.95 | 2.67 | 2.15 | 1.58 |
| | | ULS 1/3 | 1.66 | 1.94 | 2.37 | 3.21 | 5.96 | 6.50 | 5.45 | 4.73 | 3.97 | 3.43 | 2.95 | 2.67 | 2.15 | 1.58 |
| | | ULS 1/2 | 1.66 | 1.94 | 2.37 | 3.21 | 5.96 | 6.50 | 5.45 | 4.73 | 3.97 | 3.43 | 2.95 | 2.67 | 2.15 | 1.58 |
| III | L/100 | 8.68 | 9.87 | 11.55 | 14.13 | 18.91 | 10.63 | 9.23 | 8.20 | 7.08 | 6.27 | 5.49 | 5.18 | 4.69 | 3.98 | |
| | SLS L/150 | 6.71 | 7.69 | 9.09 | 11.30 | 15.53 | 8.31 | 7.16 | 6.33 | 5.45 | 4.82 | 4.23 | 4.00 | 3.63 | 3.11 | |
| | L/200 | 5.57 | 6.39 | 7.59 | 9.54 | 13.36 | 6.93 | 5.94 | 5.26 | 4.52 | 4.02 | 3.54 | 3.36 | 3.05 | 2.64 | |
| | ULS 2/3 | 3.16 | 3.86 | 4.94 | 6.88 | 9.77 | 6.89 | 5.76 | 4.98 | 4.19 | 3.64 | 2.97 | 2.68 | 2.15 | 1.58 | |
| | ULS 1/3 | 1.36 | 1.57 | 1.92 | 2.72 | 6.04 | 6.89 | 5.76 | 4.98 | 4.19 | 3.64 | 2.97 | 2.67 | 2.15 | 1.58 | |
| | ULS 1/2 | 1.36 | 1.57 | 1.92 | 2.72 | 6.04 | 6.89 | 5.76 | 4.98 | 4.19 | 3.64 | 2.97 | 2.67 | 2.15 | 1.58 | |
| Multi-span system | I | L/100 | 8.56 | 9.68 | 11.25 | 13.61 | 17.97 | 10.40 | 9.08 | 8.10 | 7.02 | 6.23 | 5.45 | 5.14 | 4.64 | 3.94 |
| | | SLS L/150 | 6.66 | 7.60 | 8.94 | 11.02 | 14.89 | 8.21 | 7.09 | 6.28 | 5.40 | 4.78 | 4.18 | 3.96 | 3.59 | 3.06 |
| | | L/200 | 5.53 | 6.34 | 7.51 | 9.37 | 12.91 | 6.86 | 5.90 | 5.21 | 4.48 | 3.98 | 3.50 | 3.31 | 3.01 | 2.59 |
| | | ULS 2/3 | 3.17 | 3.86 | 4.94 | 6.89 | 9.77 | 6.89 | 5.76 | 4.98 | 4.19 | 3.64 | 2.97 | 2.68 | 2.15 | 1.58 |
| | | ULS 1/3 | 1.36 | 1.57 | 1.92 | 2.72 | 6.04 | 6.89 | 5.76 | 4.98 | 4.19 | 3.64 | 2.97 | 2.67 | 2.15 | 1.58 |
| | | ULS 1/2 | 1.36 | 1.57 | 1.92 | 2.72 | 6.05 | 6.89 | 5.76 | 4.98 | 4.19 | 3.64 | 2.97 | 2.67 | 2.15 | 1.58 |
| | II | L/100 | 8.56 | 9.68 | 11.25 | 13.62 | 17.97 | 10.40 | 9.08 | 8.10 | 7.02 | 6.22 | 5.45 | 5.14 | 4.64 | 3.94 |
| | | SLS L/150 | 6.66 | 7.60 | 8.94 | 11.02 | 14.89 | 8.21 | 7.09 | 6.28 | 5.40 | 4.78 | 4.18 | 3.96 | 3.59 | 3.07 |
| | | L/200 | 5.53 | 6.34 | 7.51 | 9.37 | 12.91 | 6.87 | 5.90 | 5.21 | 4.49 | 3.98 | 3.50 | 3.31 | 3.01 | 2.59 |
| | | ULS 2/3 | 3.16 | 3.86 | 4.94 | 6.88 | 9.77 | 6.89 | 5.76 | 4.98 | 4.19 | 3.64 | 2.97 | 2.68 | 2.15 | 1.58 |
| | | ULS 1/3 | 1.36 | 1.57 | 1.92 | 2.72 | 6.05 | 6.89 | 5.76 | 4.98 | 4.19 | 3.64 | 2.97 | 2.67 | 2.15 | 1.58 |
| | | ULS 1/2 | 1.36 | 1.57 | 1.92 | 2.72 | 6.04 | 6.89 | 5.76 | 4.98 | 4.19 | 3.64 | 2.97 | 2.68 | 2.15 | 1.58 |
| III | L/100 | 8.56 | 9.68 | 11.25 | 13.62 | 17.97 | 10.40 | 9.08 | 8.10 | 7.01 | 6.22 | 5.45 | 5.14 | 4.64 | 3.94 | |
| | SLS L/150 | 6.66 | 7.60 | 8.94 | 11.02 | 14.89 | 8.21 | 7.09 | 6.28 | 5.40 | 4.78 | 4.18 | 3.96 | 3.59 | 3.07 | |
| | L/200 | 5.53 | 6.34 | 7.51 | 9.37 | 12.91 | 6.87 | 5.90 | 5.21 | 4.48 | 3.98 | 3.50 | 3.31 | 3.01 | 2.59 | |

- **Contact**

Customer Service Team ph. +48 46 858 16 00, fax +48 46 858 16 47

Ruukki Polska Sp. z o.o., Jaktorowska 13, 96-300 Żyrardów, Poland, www.ruukki.pl

Due to research works in progress and development of the proposed system, Ruukki Polska Sp. z o.o. reserves the right to modify and correct the hereby elaboration without a prior notice. This catalogue does not constitute an offer as meant by the law.

Copyright © 2012 Rautaruukki Corporation. All rights reserved.

Ruukki is trademark of Rautaruukki Corporation.
Rautaruukki and More With Metals are registered trademarks of Rautaruukki Corporation.