

Sandwich panels

Load tables for

Ruukki SPB W, Ruukki SPC W,
Ruukki SP2D W.

Ruukki panels, thanks to their high quality core and facing materials, as well as an innovative bonding system, boast excellent durability, corrosion resistance, thermal insulation and mechanical properties. Our load tables enable quick and easy selection of panels suitable for a particular building. Our panels have been tested to conform to the highest class of insulation and sound absorption based on European standards. Thanks to our panels your buildings will be built to last.

Applications

- production halls
- warehouses
- sports halls and arenas
- commercial buildings
- exhibition facilities
- office buildings
- administration buildings
- cold stores
- deep-freeze stores

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• **Table legend**

The data shown in tables apply to external facing linear and micro profiled wall panels and internal facing linear profiled wall panels.

The values are also applicable to externally-facing sinusoidal profile roof panels and internally-facing linear profile roof panels.

The minimum support width is 40 mm for the end support and 60 mm for intermediate supports.

Other profiling options should be verified using TrayPan software (starting from ver 2.21) available for download on www.ruukki.com.

The tables below have been developed according to principles set forth in EN 14509:2010:

- ULS – ultimate limit state, should be verified against the design load;
- SLS – serviceability limit state, should be verified against the characteristic load;
- ULS 2/0 – indicates the ultimate limit state determined for a single-span panel fixed with two fasteners at each end;
- ULS 3/0 – indicates the ultimate limit state determined for a single-span panel fixed with three fasteners at each end;
- ULS 2/3 – indicates the ultimate limit state determined for a double-span (multi-span) panel with two fasteners at each end and three fasteners at the intermediate support(s);
- ULS 2/4 – indicates the ultimate limit state determined for a double-span (multi-span) panel with two fasteners at each end and four fasteners at the intermediate support(s).
- SLS L/100 – indicates the serviceability limit state for the allowable deflection of an L-long span (where the length is expressed in mm) divided by 100, e.g. a

panel with a length of 6000 mm mounted on a single span may deflect by 60 mm.

- SLS L/150 – indicates the serviceability limit state for the allowable deflection of an L-long span (where the length is expressed in mm) divided by 150, e.g. a panel with a length of 6000 mm mounted on a single span may deflect by 45 mm.
- SLS L/200 – indicates the serviceability limit state for the allowable deflection of an L-long span (where the length is expressed in mm) divided by 200, e.g. a panel with a length of 6000 mm mounted on a single span may deflect by 30 mm.
- SLS L/250 – indicates the serviceability limit state for the allowable deflection of an L-long span (where the length is expressed in mm) divided by 250, e.g. a panel with a length of 6000 mm mounted on a single span may deflect by 24 mm.

• **Colour groups**

The division of panels into colour groups shown in the table is connected with the influence of thermal load on cladding made of sandwich panels. When exposed to solar radiation steel facing in dark colours absorbs more heat.

Due to a considerable difference between the temperature (Δt) of the external and internal facing thermal stresses occur, affecting the performance of the sandwich panels used in the structure. This may result in the corrugation of the external surface or – in the worst case – the panel fixed to an intermediate support may be damaged.

The EN 14509:2010 standard, describing the requirements for sandwich panels, introduced a division into three groups of colours: very light, light and dark. The value of temperature of the facing is specified according to the colour group as follows: +55°C for very light colours, +65°C for light colours and +80°C for dark colours.

• **Division into colour groups**

Table 1

<i>Colour group</i>	<i>Colours</i>
Group I – very light colours	RAL: 1015, 1016, 1018, 6019, 7035, 9001, 9002, 9010
Group II – light colours	RAL: 1002, 1003, 1004, 1014, 1017, 1019, 1021, 1023, 1035, 2000, 2003, 2004, 2008, 2009, 5012, 5018, 5024, 6018, 6021, 6033, 7000, 7037, 7040, 9006, 9022 RR: 20, 21, 24, 30, 40
Group III – dark colours	RAL: 3000, 3002, 3003, 3005, 3011, 3013, 5002, 5005, 5009, 5010, 5011, 5022, 6000, 6003, 6005, 6011, 6020, 6029, 7015, 7016, 7022, 7024, 8016, 8017, 8023, 9005, 9007 RR: 22, 23, 29, 34, 35, 36, 41, 288

The ambient temperature inside the building used for the serviceability calculations was 20°C. In the summer, the facing temperatures used were the maximum allowable temperatures specified for each colour group, whereas in the winter the assumed temperature was -20°C. Therefore, the calculations considered the following temperature gradients for each colour group:

- I grupa – $\Delta t = 40^\circ\text{C}$,
- II grupa – $\Delta t = 45^\circ\text{C}$,
- III grupa – $\Delta t = 60^\circ\text{C}$,

This complies with the requirements specified for sandwich panels in EN 14509:2010 for our latitude.

- **Guidelines for the application of dark colour sandwich panels**

External wall cladding made of dark-coloured panels (Group III), due to the exposition to substantially greater thermal stresses than in the case of lighter colours may become deformed or lose the initial shape.

It is the designer's responsibility to take this fact into account in the design process and – in order to prevent damage – apply a solution that will meet all three requirements specified below:

1. Select the fixing method and static scheme according to the span tables,
2. Reduce the maximum length of the panels,
3. Consider the temperature at which the panels will be installed.

1. Static scheme and fixing method

Both in the case of wall and roof panels the installation system must be verified against the values shown in the load tables, i.e. the contemplated static scheme must meet the ULS and SLS criteria.

However, regardless of the selection of panel types according to the table values, it is recommended to install dark-coloured wall sandwich panels only in single-span systems.

Using dark panels in multi-span layouts may result in the occurrence of slight corrugation on the intermediate support due to greater thermal stresses. Although formally allowed by the product standard, the corrugation may cause the client or project owner to express reservations on aesthetic grounds and lead to a quality claim.

Ruukki does not guarantee homogeneous flatness of the surface of dark sandwich panels installed using multi-span systems, unless such applications have

been approved in writing by a duly authorised representative of Ruukki.

2. Maximum panel length

The maximum installation length of Colour Group III wall panels is 9.5 m.

The maximum installation length of Colour Group III roof panels is 13.5 m.

Dark-coloured panels with lengths exceeding the limit values shown above are not covered by the Ruukki guarantee, unless the relevant application has been approved in writing by a duly authorised representative of Ruukki.

3. Installation temperature

The installation of sandwich panels with dark-colour facing at low temperatures increases the effects of thermal load on the structure in warm seasons.

Therefore, it is recommended to install such panels at ambient temperatures above 10°C.

Dark-coloured panels installed at temperatures below 10°C are not covered by the Ruukki guarantee, unless the relevant application has been approved in writing by a duly authorised representative of Ruukki.

- **Guidelines for the application of flat surface panels**

Sandwich panels with flat (smooth) facing may be installed using the single-span system only and only if this option is available in the TrayPan software (starting from ver 2.21.).

The application of flat surface panels in other installation systems may result in undesirable visual defects, e.g. corrugation. The effects may be of a temporary nature, i.e. they may occur only in specific conditions (e.g. after a prolonged exposure to the sun) and although they do not affect the performance of the panel, the client or project owner may complain about the disturbed aesthetics of the facade.

The guarantee obligations of Ruukki do not apply to flat surface panels installed using multi-span systems, unless the relevant application has been approved in writing by a duly authorised representative of Ruukki.

● **Maximum allowable wind pressure [kN/m²] for the length of span made of Ruukki SPB80W panels**

Table 2

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 60 mm
 Minimum intermediate support width: 120 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3 or 4

ULS – Ultimate Limit State
 SLS – Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS 3/0	6.85	4.50	3.35	2.67	2.22	1.90	1.66	1.47	1.33	1.21	1.05	0.90
		ULS 2/0	6.85	4.50	3.35	2.67	2.22	1.90	1.66	1.47	1.33	1.21	1.05	0.90
		L/100	18.30	11.26	7.63	5.43	3.98	2.99	2.29	1.78	1.41	1.13	0.89	0.71
		SLS L/150	12.20	7.51	5.09	3.62	2.65	2.00	1.48	1.10	0.84	0.63	0.44	0.29
		L/200	9.14	5.63	3.81	2.71	1.93	1.36	0.98	0.64	0.39	0.21	0.10	0.02
	II	ULS 3/0	6.85	4.50	3.35	2.67	2.22	1.90	1.66	1.47	1.33	1.21	1.04	0.89
		ULS 2/0	6.85	4.50	3.35	2.67	2.22	1.90	1.66	1.47	1.33	1.21	1.04	0.89
		L/100	18.30	11.26	7.63	5.43	3.98	2.99	2.29	1.78	1.41	1.13	0.89	0.71
		SLS L/150	12.20	7.51	5.09	3.62	2.65	2.00	1.48	1.10	0.84	0.63	0.44	0.29
		L/200	9.14	5.63	3.81	2.71	1.93	1.36	0.98	0.64	0.39	0.21	0.00	0.00
	III	ULS 3/0	6.85	4.50	3.35	2.67	2.22	1.90	1.66	1.47	1.33	1.21	1.04	0.88
		ULS 2/0	6.85	4.50	3.35	2.67	2.22	1.90	1.66	1.47	1.33	1.21	1.04	0.88
		L/100	18.30	11.26	7.63	5.43	3.98	2.99	2.29	1.78	1.41	1.13	0.89	0.71
		SLS L/150	12.20	7.51	5.09	3.62	2.65	2.00	1.48	1.10	0.84	0.63	0.00	0.00
		L/200	9.14	5.63	3.81	2.71	1.93	1.36	0.98	0.00	0.00	0.00	0.00	0.00
Double-span system	I	ULS 2/4	6.85	4.50	3.35	2.67	2.22	1.74	1.08	0.72	0.50	0.37	0.28	0.22
		ULS 2/3	6.85	4.50	3.35	2.67	2.22	1.74	1.08	0.72	0.50	0.37	0.28	0.22
		L/100	18.42	11.58	8.14	6.09	4.73	3.76	3.05	2.52	2.09	1.76	1.49	1.27
		SLS L/150	12.29	7.72	5.43	4.05	3.15	2.51	2.04	1.68	1.40	1.18	0.99	0.85
		L/200	9.21	5.79	4.07	3.04	2.36	1.88	1.54	1.26	1.05	0.88	0.75	0.64
	II	ULS 2/4	6.85	4.50	3.35	2.67	2.22	1.74	1.08	0.72	0.50	0.37	0.28	0.22
		ULS 2/3	6.85	4.50	3.35	2.67	2.22	1.74	1.08	0.72	0.50	0.37	0.28	0.22
		L/100	18.42	11.58	8.14	6.09	4.73	3.76	3.05	2.52	2.09	1.76	1.49	1.27
		SLS L/150	12.29	7.72	5.43	4.05	3.15	2.51	2.04	1.68	1.40	1.18	0.99	0.85
		L/200	9.21	5.79	4.07	3.04	2.36	1.88	1.54	1.26	1.05	0.88	0.75	0.64
	III	ULS 2/4	6.85	4.50	3.35	2.67	2.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ULS 2/3	6.85	4.50	3.35	2.67	2.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		L/100	18.42	11.58	8.14	6.09	4.73	3.76	3.05	2.52	2.09	1.76	1.49	1.27
		SLS L/150	12.29	7.72	5.43	4.05	3.15	2.51	2.04	1.68	1.40	1.18	0.99	0.85
		L/200	9.21	5.79	4.07	3.04	2.36	1.88	1.54	1.26	1.05	0.88	0.75	0.64
Multi-span system	I	ULS 2/4	6.85	4.50	3.35	2.67	2.22	1.90	1.41	1.05	0.81	0.65	0.53	0.44
		ULS 2/3	6.85	4.50	3.35	2.67	2.22	1.90	1.41	1.05	0.81	0.65	0.53	0.44
		L/100	18.51	11.70	8.24	6.13	4.73	3.72	2.98	2.41	1.98	1.64	1.37	1.15
		SLS L/150	12.34	7.80	5.49	4.09	3.15	2.48	1.98	1.61	1.32	1.09	0.91	0.77
		L/200	9.25	5.85	4.12	3.07	2.36	1.86	1.49	1.21	1.00	0.82	0.68	0.58
	II	ULS 2/4	6.85	4.50	3.35	2.67	2.22	1.90	1.41	1.05	0.81	0.65	0.53	0.44
		ULS 2/3	6.85	4.50	3.35	2.67	2.22	1.90	1.41	1.05	0.81	0.65	0.53	0.44
		L/100	18.51	11.70	8.24	6.13	4.73	3.72	2.98	2.41	1.98	1.64	1.37	1.15
		SLS L/150	12.34	7.80	5.49	4.09	3.15	2.48	1.98	1.61	1.32	1.09	0.91	0.77
		L/200	9.25	5.85	4.12	3.07	2.36	1.86	1.49	1.21	1.00	0.82	0.68	0.58
	III	ULS 2/4	6.85	4.50	3.35	2.67	2.22	1.90	0.00	0.00	0.00	0.00	0.00	0.00
		ULS 2/3	6.85	4.50	3.35	2.67	2.22	1.90	0.00	0.00	0.00	0.00	0.00	0.00
		L/100	18.51	11.70	8.24	6.13	4.73	3.72	2.98	2.41	1.98	1.64	1.37	1.15
		SLS L/150	12.34	7.80	5.49	4.09	3.15	2.48	1.98	1.61	1.32	1.09	0.91	0.77
		L/200	9.25	5.85	4.12	3.07	2.36	1.86	1.49	1.21	1.00	0.82	0.68	0.58

● **Maximum allowable wind suction [kN/m²] for the length of span made of Ruukki SPB80W panels**

Table 3

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 60 mm
 Minimum intermediate support width: 120 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3 or 4

ULS – Ultimate Limit State
 SLS – Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS 3/0	6.85	4.50	3.35	2.67	2.22	1.90	1.66	1.47	1.32	1.10	0.92	0.79
		ULS 2/0	6.85	4.50	3.35	2.67	2.22	1.90	1.66	1.47	1.32	1.10	0.92	0.79
		L/100	18.30	11.26	7.63	5.43	3.99	3.00	2.29	1.79	1.42	1.13	0.92	0.74
		SLS L/150	12.20	7.50	5.08	3.62	2.66	2.00	1.53	1.17	0.88	0.68	0.52	0.40
		L/200	9.14	5.63	3.82	2.71	1.99	1.44	1.04	0.77	0.54	0.35	0.21	0.12
		ULS 3/0	6.85	4.50	3.35	2.67	2.22	1.90	1.66	1.47	1.32	1.10	0.92	0.79
	II	ULS 2/0	6.85	4.50	3.35	2.67	2.22	1.90	1.66	1.47	1.32	1.10	0.92	0.79
		L/100	18.30	11.26	7.63	5.43	3.99	3.00	2.29	1.79	1.42	1.13	0.92	0.74
		SLS L/150	12.20	7.50	5.08	3.62	2.66	1.95	1.42	1.04	0.76	0.50	0.32	0.19
		L/200	9.14	5.63	3.82	2.70	1.85	1.28	0.81	0.46	0.24	0.08	0.00	0.00
		ULS 3/0	6.85	4.50	3.35	2.67	2.22	1.90	1.66	1.47	1.32	1.10	0.92	0.79
		ULS 2/0	6.85	4.50	3.35	2.67	2.22	1.90	1.66	1.47	1.32	1.10	0.92	0.79
III	L/100	18.30	11.26	7.63	5.43	3.99	3.00	2.23	1.65	1.24	0.94	0.66	0.44	
	SLS L/150	12.20	7.50	5.08	3.60	2.46	1.71	1.09	0.62	0.31	0.11	0.00	0.00	
	L/200	9.14	5.63	3.71	2.39	1.42	0.69	0.24	0.00	0.00	0.00	0.00	0.00	
	ULS 2/4	5.63	3.49	2.51	1.97	1.62	1.39	1.22	0.93	0.68	0.51	0.40	0.32	
	ULS 2/3	4.04	2.47	1.77	1.39	1.15	0.98	0.86	0.77	0.68	0.51	0.40	0.32	
	L/100	18.42	11.58	8.14	6.09	4.73	3.77	3.06	2.52	2.10	1.76	1.49	1.27	
Double-span system	I	SLS L/150	12.28	7.72	5.43	4.06	3.16	2.51	2.04	1.68	1.40	1.17	0.99	0.85
		L/200	9.21	5.79	4.07	3.04	2.37	1.88	1.53	1.26	1.05	0.88	0.74	0.64
		ULS 2/4	5.37	3.29	2.35	1.84	1.53	1.17	0.65	0.38	0.23	0.14	0.09	0.06
		ULS 2/3	3.78	2.27	1.61	1.25	1.05	0.90	0.65	0.38	0.23	0.15	0.09	0.06
		L/100	18.42	11.58	8.14	6.09	4.73	3.77	3.06	2.52	2.10	1.76	1.49	1.27
		SLS L/150	12.28	7.72	5.43	4.06	3.16	2.51	2.04	1.68	1.40	1.17	0.99	0.85
	II	L/200	9.21	5.79	4.07	3.04	2.37	1.88	1.53	1.26	1.05	0.88	0.74	0.64
		ULS 2/4	4.98	2.98	2.12	1.67	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ULS 2/3	3.40	1.92	1.22	0.98	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		L/100	18.42	11.58	8.14	6.09	4.73	3.77	3.06	2.52	2.10	1.76	1.49	1.27
		SLS L/150	12.28	7.72	5.43	4.06	3.16	2.51	2.04	1.68	1.40	1.17	0.99	0.85
		L/200	9.21	5.79	4.07	3.04	2.37	1.88	1.53	1.26	1.05	0.86	0.70	0.58
Multi-span system	I	ULS 2/4	5.88	3.83	2.86	2.30	1.93	1.66	1.46	1.21	0.95	0.77	0.64	0.54
		ULS 2/3	4.28	2.78	2.09	1.68	1.42	1.21	1.07	0.96	0.86	0.77	0.64	0.54
		L/100	18.50	11.69	8.24	6.13	4.72	3.72	2.98	2.42	1.98	1.64	1.37	1.15
		SLS L/150	12.34	7.80	5.49	4.09	3.15	2.48	1.99	1.61	1.32	1.09	0.91	0.76
		L/200	9.25	5.85	4.12	3.07	2.36	1.86	1.49	1.21	0.99	0.82	0.68	0.57
		ULS 2/4	5.68	3.69	2.77	2.23	1.88	1.44	0.98	0.71	0.53	0.42	0.34	0.28
	II	ULS 2/3	4.28	2.78	2.09	1.68	1.42	1.21	0.98	0.71	0.53	0.42	0.34	0.28
		L/100	18.50	11.69	8.24	6.13	4.72	3.72	2.98	2.42	1.98	1.64	1.37	1.15
		SLS L/150	12.34	7.80	5.49	4.09	3.15	2.48	1.99	1.61	1.32	1.09	0.91	0.76
		L/200	9.25	5.85	4.12	3.07	2.36	1.86	1.49	1.21	0.99	0.82	0.67	0.55
		ULS 2/4	5.37	3.48	2.63	1.41	0.42	0.07	0.00	0.00	0.00	0.00	0.00	0.00
		ULS 2/3	3.75	2.41	1.83	1.41	0.42	0.07	0.00	0.00	0.00	0.00	0.00	0.00
III	L/100	18.50	11.69	8.24	6.13	4.72	3.72	2.98	2.42	1.98	1.64	1.37	1.15	
	SLS L/150	12.34	7.80	5.49	4.09	3.15	2.48	1.99	1.61	1.32	1.09	0.89	0.73	
	L/200	9.25	5.85	4.12	3.07	2.36	1.86	1.49	1.17	0.93	0.74	0.58	0.45	

• **Maximum allowable wind pressure [kN/m²] for the length of span made of Ruukki SPB100W panels**

Table 4

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 60 mm
 Minimum intermediate support width: 120 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3 or 4

ULS – Ultimate Limit State
 SLS – Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS 3/0	8.58	5.65	4.20	3.35	2.78	2.38	2.09	1.85	1.66	1.51	1.32	1.12
		ULS 2/0	8.58	5.65	4.20	3.35	2.78	2.38	2.09	1.85	1.66	1.51	1.32	1.12
		L/100	23.26	14.53	10.01	7.26	5.43	4.15	3.22	2.54	2.03	1.65	1.35	1.12
		SLS L/150	15.51	9.69	6.68	4.84	3.62	2.76	2.15	1.70	1.32	1.03	0.81	0.64
		L/200	11.63	7.26	5.01	3.63	2.71	2.07	1.53	1.14	0.87	0.62	0.42	0.27
	II	ULS 3/0	8.58	5.65	4.20	3.35	2.78	2.38	2.09	1.85	1.66	1.51	1.31	1.12
		ULS 2/0	8.58	5.65	4.20	3.35	2.78	2.38	2.09	1.85	1.66	1.51	1.31	1.12
		L/100	23.26	14.53	10.01	7.26	5.43	4.15	3.22	2.54	2.03	1.65	1.35	1.12
		SLS L/150	15.51	9.69	6.68	4.84	3.62	2.76	2.15	1.70	1.32	1.03	0.81	0.64
		L/200	11.63	7.26	5.01	3.63	2.71	2.07	1.53	1.14	0.87	0.62	0.42	0.27
	III	ULS 3/0	8.58	5.65	4.20	3.35	2.78	2.38	2.09	1.85	1.66	1.51	1.30	1.11
		ULS 2/0	8.58	5.65	4.20	3.35	2.78	2.38	2.09	1.85	1.66	1.51	1.30	1.11
L/100		23.26	14.53	10.01	7.26	5.43	4.15	3.22	2.54	2.03	1.65	1.35	1.12	
SLS L/150		15.51	9.69	6.68	4.84	3.62	2.76	2.15	1.70	1.32	1.03	0.81	0.64	
L/200		11.63	7.26	5.01	3.63	2.71	2.07	1.53	1.15	0.87	0.62	0.00	0.00	
Double-span system	I	ULS 2/4	8.58	5.65	4.20	3.35	2.78	2.38	1.61	1.06	0.74	0.53	0.40	0.31
		ULS 2/3	8.58	5.65	4.20	3.35	2.78	2.38	1.61	1.06	0.74	0.53	0.40	0.31
		L/100	23.36	14.81	10.51	7.92	6.21	4.99	4.09	3.40	2.86	2.42	2.07	1.78
		SLS L/150	15.57	9.88	7.00	5.28	4.14	3.33	2.73	2.27	1.91	1.62	1.38	1.19
		L/200	11.68	7.41	5.25	3.96	3.10	2.50	2.05	1.70	1.43	1.21	1.04	0.89
	II	ULS 2/4	8.58	5.65	4.20	3.35	2.78	2.38	1.61	1.06	0.74	0.53	0.40	0.31
		ULS 2/3	8.58	5.65	4.20	3.35	2.78	2.38	1.61	1.06	0.74	0.53	0.40	0.31
		L/100	23.36	14.81	10.51	7.92	6.21	4.99	4.09	3.40	2.86	2.42	2.07	1.78
		SLS L/150	15.57	9.88	7.00	5.28	4.14	3.33	2.73	2.27	1.91	1.62	1.38	1.19
		L/200	11.68	7.41	5.25	3.96	3.10	2.50	2.05	1.70	1.43	1.21	1.04	0.89
	III	ULS 2/4	8.58	5.65	4.20	3.35	2.78	2.38	0.00	0.00	0.00	0.00	0.00	0.00
		ULS 2/3	8.58	5.65	4.20	3.35	2.78	2.38	0.00	0.00	0.00	0.00	0.00	0.00
L/100		23.36	14.81	10.51	7.92	6.21	4.99	4.09	3.40	2.86	2.42	2.07	1.78	
SLS L/150		15.57	9.88	7.00	5.28	4.14	3.33	2.73	2.27	1.91	1.62	1.38	1.19	
L/200		11.68	7.41	5.25	3.96	3.10	2.50	2.05	1.70	1.43	1.21	1.04	0.89	
Multi-span system	I	ULS 2/4	8.58	5.65	4.20	3.35	2.78	2.38	1.90	1.39	1.07	0.85	0.69	0.57
		ULS 2/3	8.58	5.65	4.20	3.35	2.78	2.38	1.90	1.39	1.07	0.85	0.69	0.57
		L/100	23.45	14.94	10.62	8.00	6.24	4.98	4.03	3.31	2.74	2.30	1.94	1.64
		SLS L/150	15.62	9.96	7.08	5.33	4.16	3.31	2.69	2.21	1.83	1.53	1.29	1.10
		L/200	11.72	7.47	5.31	4.00	3.12	2.49	2.02	1.65	1.37	1.15	0.97	0.82
	II	ULS 2/4	8.58	5.65	4.20	3.35	2.78	2.38	1.90	1.39	1.07	0.85	0.69	0.57
		ULS 2/3	8.58	5.65	4.20	3.35	2.78	2.38	1.90	1.39	1.07	0.85	0.69	0.57
		L/100	23.45	14.94	10.62	8.00	6.24	4.98	4.03	3.31	2.74	2.30	1.94	1.64
		SLS L/150	15.62	9.96	7.08	5.33	4.16	3.31	2.69	2.21	1.83	1.53	1.29	1.10
		L/200	11.72	7.47	5.31	4.00	3.12	2.49	2.02	1.65	1.37	1.15	0.97	0.82
	III	ULS 2/4	8.58	5.65	4.20	3.35	2.78	2.38	1.90	0.00	0.00	0.00	0.00	0.00
		ULS 2/3	8.58	5.65	4.20	3.35	2.78	2.38	1.90	0.00	0.00	0.00	0.00	0.00
L/100		23.45	14.94	10.62	8.00	6.24	4.98	4.03	3.31	2.74	2.30	1.94	1.64	
SLS L/150		15.62	9.96	7.08	5.33	4.16	3.31	2.69	2.21	1.83	1.53	1.29	1.10	
L/200		11.72	7.47	5.31	4.00	3.12	2.49	2.02	1.65	1.37	1.15	0.97	0.82	

● **Maximum allowable wind suction [kN/m²] for the length of span made of Ruukki SPB100W panels**

Table 5

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 60 mm
 Minimum intermediate support width: 120 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3 or 4

ULS – Ultimate Limit State
 SLS – Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS 3/0	8.58	5.64	4.20	3.35	2.78	2.38	2.08	1.85	1.66	1.38	1.16	0.98
		ULS 2/0	8.58	5.64	4.20	3.35	2.78	2.38	2.08	1.85	1.66	1.38	1.16	0.98
		L/100	23.26	14.53	10.02	7.26	5.43	4.15	3.22	2.54	2.04	1.64	1.35	1.11
		SLS L/150	15.51	9.69	6.68	4.84	3.62	2.76	2.15	1.70	1.36	1.08	0.85	0.69
		L/200	11.62	7.26	5.00	3.63	2.72	2.07	1.61	1.22	0.93	0.71	0.55	0.39
	II	ULS 3/0	8.58	5.64	4.20	3.35	2.78	2.38	2.08	1.85	1.66	1.38	1.16	0.98
		ULS 2/0	8.58	5.64	4.20	3.35	2.78	2.38	2.08	1.85	1.66	1.38	1.16	0.98
		L/100	23.26	14.53	10.02	7.26	5.43	4.15	3.22	2.54	2.04	1.64	1.35	1.11
		SLS L/150	15.51	9.69	6.68	4.84	3.62	2.77	2.15	1.64	1.26	0.97	0.76	0.56
		L/200	11.62	7.26	5.00	3.63	2.71	1.98	1.45	1.08	0.73	0.46	0.28	0.15
	III	ULS 3/0	8.58	5.64	4.20	3.35	2.78	2.38	2.08	1.85	1.66	1.38	1.16	0.98
		ULS 2/0	8.58	5.64	4.20	3.35	2.78	2.38	2.08	1.85	1.66	1.38	1.16	0.98
		L/100	23.26	14.53	10.02	7.26	5.43	4.15	3.22	2.54	1.98	1.54	1.21	0.96
		SLS L/150	15.51	9.69	6.68	4.84	3.62	2.64	1.94	1.43	0.97	0.62	0.37	0.20
		L/200	11.62	7.26	5.01	3.53	2.44	1.70	1.00	0.53	0.22	0.01	0.00	0.00
Double-span system	I	ULS 2/4	5.70	3.52	2.51	1.95	1.61	1.36	1.18	1.06	0.95	0.72	0.55	0.44
		ULS 2/3	4.04	2.44	1.73	1.35	1.11	0.95	0.83	0.74	0.67	0.62	0.55	0.44
		L/100	23.36	14.82	10.50	7.92	6.21	4.99	4.09	3.40	2.86	2.42	2.07	1.78
		SLS L/150	15.57	9.88	7.00	5.28	4.14	3.33	2.73	2.27	1.91	1.61	1.38	1.18
		L/200	11.68	7.41	5.25	3.96	3.10	2.50	2.04	1.70	1.43	1.21	1.03	0.89
	II	ULS 2/4	5.43	3.30	2.34	1.82	1.48	1.27	1.07	0.64	0.40	0.25	0.17	0.11
		ULS 2/3	3.77	2.23	1.56	1.21	0.99	0.85	0.76	0.64	0.40	0.25	0.17	0.11
		L/100	23.36	14.82	10.50	7.92	6.21	4.99	4.09	3.40	2.86	2.42	2.07	1.78
		SLS L/150	15.57	9.88	7.00	5.28	4.14	3.33	2.73	2.27	1.91	1.61	1.38	1.18
		L/200	11.68	7.41	5.25	3.96	3.10	2.50	2.04	1.70	1.43	1.21	1.03	0.89
	III	ULS 2/4	5.02	2.97	2.08	1.59	1.29	0.18	0.00	0.00	0.00	0.00	0.00	0.00
		ULS 2/3	3.36	1.69	1.00	0.72	0.64	0.18	0.00	0.00	0.00	0.00	0.00	0.00
		L/100	23.36	14.82	10.50	7.92	6.21	4.99	4.09	3.40	2.86	2.42	2.07	1.78
		SLS L/150	15.57	9.88	7.00	5.28	4.14	3.33	2.73	2.27	1.91	1.61	1.38	1.18
		L/200	11.68	7.41	5.25	3.96	3.10	2.50	2.04	1.70	1.43	1.21	1.04	0.89
Multi-span system	I	ULS 2/4	5.91	3.83	2.85	2.29	1.92	1.64	1.43	1.29	1.16	0.99	0.82	0.69
		ULS 2/3	4.24	2.73	2.04	1.65	1.38	1.20	1.05	0.94	0.85	0.78	0.72	0.67
		L/100	23.44	14.94	10.62	8.00	6.23	4.97	4.03	3.31	2.74	2.30	1.94	1.65
		SLS L/150	15.62	9.96	7.08	5.33	4.16	3.31	2.69	2.21	1.83	1.53	1.28	1.09
		L/200	11.72	7.47	5.31	4.00	3.12	2.49	2.02	1.65	1.37	1.15	0.96	0.82
	II	ULS 2/4	5.69	3.67	2.75	2.18	1.84	1.59	1.35	0.96	0.72	0.56	0.44	0.36
		ULS 2/3	4.24	2.73	2.04	1.65	1.38	1.20	1.05	0.94	0.72	0.56	0.44	0.36
		L/100	23.44	14.94	10.62	8.00	6.23	4.97	4.03	3.31	2.74	2.30	1.94	1.65
		SLS L/150	15.62	9.96	7.08	5.33	4.16	3.31	2.69	2.21	1.83	1.53	1.28	1.09
		L/200	11.72	7.47	5.31	4.00	3.12	2.49	2.02	1.65	1.37	1.15	0.97	0.82
	III	ULS 2/4	5.36	3.39	2.55	2.06	0.92	0.30	0.04	0.00	0.00	0.00	0.00	0.00
		ULS 2/3	3.69	2.34	1.74	1.43	0.93	0.30	0.04	0.00	0.00	0.00	0.00	0.00
		L/100	23.44	14.94	10.62	8.00	6.23	4.97	4.03	3.31	2.74	2.30	1.94	1.65
		SLS L/150	15.62	9.96	7.08	5.33	4.16	3.31	2.69	2.21	1.83	1.53	1.29	1.09
		L/200	11.72	7.47	5.31	4.00	3.12	2.49	2.02	1.66	1.37	1.13	0.92	0.76

• **Maximum allowable wind pressure [kN/m²] for the length of span made of Ruukki SPB120W panels**

Table 6

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 60 mm
 Minimum intermediate support width: 120 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3 or 4

ULS – Ultimate Limit State
 SLS – Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]												
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	
Single-span system	I	ULS 3/0	8.66	5.77	4.33	3.46	2.89	2.48	2.17	1.92	1.73	1.57	1.44	1.33	
		ULS 2/0	8.66	5.77	4.33	3.46	2.89	2.48	2.17	1.92	1.73	1.57	1.44	1.33	
		L/100	28.22	17.80	12.43	9.13	6.92	5.36	4.21	3.36	2.71	2.22	1.83	1.52	
		SLS L/150	18.81	11.87	8.29	6.09	4.61	3.57	2.81	2.24	1.81	1.47	1.19	0.96	
		L/200	14.11	8.91	6.22	4.57	3.46	2.68	2.11	1.64	1.27	0.99	0.78	0.59	
	II	ULS 3/0	8.66	5.77	4.33	3.46	2.89	2.48	2.17	1.92	1.73	1.57	1.44	1.33	
		ULS 2/0	8.66	5.77	4.33	3.46	2.89	2.48	2.17	1.92	1.73	1.57	1.44	1.33	
		L/100	28.22	17.80	12.43	9.13	6.92	5.36	4.21	3.36	2.71	2.22	1.83	1.52	
		SLS L/150	18.81	11.87	8.29	6.09	4.61	3.57	2.81	2.24	1.81	1.47	1.19	0.96	
		L/200	14.11	8.91	6.22	4.57	3.46	2.68	2.11	1.64	1.27	0.99	0.78	0.59	
	III	ULS 3/0	8.66	5.77	4.33	3.46	2.89	2.48	2.17	1.92	1.73	1.57	1.44	1.33	
		ULS 2/0	8.66	5.77	4.33	3.46	2.89	2.48	2.17	1.92	1.73	1.57	1.44	1.33	
		L/100	28.22	17.80	12.43	9.13	6.92	5.36	4.21	3.36	2.71	2.22	1.83	1.52	
		SLS L/150	18.81	11.87	8.29	6.09	4.61	3.57	2.81	2.24	1.81	1.47	1.18	0.96	
		L/200	14.11	8.91	6.22	4.57	3.46	2.68	2.11	1.64	1.27	0.99	0.78	0.59	
Double-span system	I	ULS 2/4	8.66	5.77	4.33	3.46	2.88	2.44	2.12	1.47	1.01	0.73	0.54	0.42	
		ULS 2/3	8.66	5.77	4.33	3.46	2.88	2.44	2.12	1.47	1.01	0.73	0.54	0.42	
		L/100	28.32	18.07	12.90	9.77	7.71	6.24	5.15	4.31	3.65	3.12	2.68	2.32	
		SLS L/150	18.88	12.05	8.59	6.52	5.14	4.16	3.44	2.87	2.43	2.08	1.79	1.55	
		L/200	14.16	9.03	6.45	4.89	3.86	3.12	2.58	2.16	1.82	1.56	1.34	1.16	
	II	ULS 2/4	8.66	5.77	4.33	3.46	2.88	2.44	2.12	1.47	1.01	0.73	0.54	0.42	
		ULS 2/3	8.66	5.77	4.33	3.46	2.88	2.44	2.12	1.47	1.01	0.73	0.54	0.42	
		L/100	28.32	18.07	12.90	9.77	7.71	6.24	5.15	4.31	3.65	3.12	2.68	2.32	
		SLS L/150	18.88	12.05	8.59	6.52	5.14	4.16	3.44	2.87	2.43	2.08	1.79	1.55	
		L/200	14.16	9.03	6.45	4.89	3.86	3.12	2.58	2.16	1.82	1.56	1.34	1.16	
	III	ULS 2/4	8.66	5.77	4.33	3.46	2.88	2.44	2.12	0.00	0.00	0.00	0.00	0.00	
		ULS 2/3	8.66	5.77	4.33	3.46	2.88	2.44	2.12	0.00	0.00	0.00	0.00	0.00	
		L/100	28.32	18.07	12.90	9.77	7.71	6.24	5.15	4.31	3.65	3.12	2.68	2.32	
		SLS L/150	18.88	12.05	8.59	6.52	5.14	4.16	3.44	2.87	2.43	2.08	1.79	1.55	
		L/200	14.16	9.03	6.45	4.89	3.86	3.12	2.58	2.16	1.82	1.56	1.34	1.16	
Multi-span system	I	ULS 2/4	8.66	5.77	4.33	3.46	2.89	2.48	2.17	1.78	1.35	1.06	0.86	0.71	
		ULS 2/3	8.66	5.77	4.33	3.46	2.89	2.48	2.17	1.78	1.35	1.06	0.86	0.71	
		L/100	28.39	18.19	13.03	9.89	7.77	6.26	5.12	4.24	3.55	2.99	2.54	2.17	
		SLS L/150	18.93	12.13	8.68	6.59	5.18	4.18	3.41	2.83	2.37	2.00	1.69	1.45	
		L/200	14.19	9.09	6.52	4.94	3.89	3.13	2.56	2.12	1.77	1.49	1.27	1.09	
	II	ULS 2/4	8.66	5.77	4.33	3.46	2.89	2.48	2.17	1.78	1.35	1.06	0.86	0.71	
		ULS 2/3	8.66	5.77	4.33	3.46	2.89	2.48	2.17	1.78	1.35	1.06	0.86	0.71	
		L/100	28.39	18.19	13.03	9.89	7.77	6.26	5.12	4.24	3.55	2.99	2.54	2.17	
		SLS L/150	18.93	12.13	8.68	6.59	5.18	4.18	3.41	2.83	2.37	2.00	1.69	1.45	
		L/200	14.19	9.09	6.52	4.94	3.89	3.13	2.56	2.12	1.77	1.49	1.27	1.09	
	III	ULS 2/4	8.66	5.77	4.33	3.46	2.89	2.48	2.16	1.78	0.00	0.00	0.00	0.00	
		ULS 2/3	8.66	5.77	4.33	3.46	2.89	2.48	2.16	1.78	0.00	0.00	0.00	0.00	
		L/100	28.39	18.19	13.03	9.89	7.77	6.26	5.12	4.24	3.55	2.99	2.54	2.17	
		SLS L/150	18.93	12.13	8.68	6.59	5.18	4.18	3.41	2.83	2.37	2.00	1.69	1.45	
		L/200	14.19	9.09	6.52	4.94	3.89	3.13	2.56	2.12	1.77	1.49	1.27	1.09	

● **Maximum allowable wind suction [kN/m²] for the length of span made of Ruukki SPB120W panels**

Table 7

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 60 mm
 Minimum intermediate support width: 120 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3 or 4

ULS – Ultimate Limit State
 SLS – Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS 3/0	9.49	6.24	4.65	3.70	3.08	2.63	2.30	2.04	1.84	1.66	1.39	1.18
		ULS 2/0	9.49	6.24	4.65	3.70	3.08	2.63	2.30	2.04	1.84	1.66	1.39	1.18
		L/100	28.22	17.80	12.43	9.13	6.92	5.35	4.21	3.36	2.71	2.21	1.83	1.52
		SLS L/150	18.81	11.87	8.29	6.09	4.61	3.57	2.81	2.24	1.81	1.47	1.22	1.01
		L/200	14.11	8.90	6.21	4.56	3.46	2.68	2.10	1.68	1.33	1.05	0.84	0.67
	II	ULS 3/0	9.49	6.24	4.65	3.70	3.08	2.63	2.30	2.04	1.84	1.66	1.39	1.18
		ULS 2/0	9.49	6.24	4.65	3.70	3.08	2.63	2.30	2.04	1.84	1.66	1.39	1.18
		L/100	28.22	17.80	12.43	9.13	6.92	5.35	4.21	3.36	2.71	2.21	1.83	1.52
		SLS L/150	18.81	11.87	8.29	6.09	4.61	3.57	2.81	2.24	1.80	1.42	1.13	0.91
		L/200	14.11	8.90	6.21	4.57	3.46	2.68	2.05	1.56	1.20	0.93	0.66	0.45
	III	ULS 3/0	9.49	6.24	4.65	3.70	3.08	2.63	2.30	2.04	1.84	1.66	1.39	1.18
		ULS 2/0	9.49	6.24	4.65	3.70	3.08	2.63	2.30	2.04	1.84	1.66	1.39	1.18
		L/100	28.22	17.80	12.43	9.13	6.92	5.35	4.21	3.36	2.71	2.22	1.78	1.44
		SLS L/150	18.81	11.87	8.29	6.09	4.61	3.57	2.73	2.08	1.60	1.24	0.88	0.60
		L/200	14.11	8.90	6.22	4.56	3.36	2.44	1.80	1.21	0.75	0.43	0.20	0.04
Double-span system	I	ULS 2/4	5.71	3.51	2.49	1.93	1.58	1.34	1.16	1.04	0.94	0.86	0.73	0.58
		ULS 2/3	4.04	2.43	1.70	1.31	1.08	0.92	0.81	0.72	0.65	0.60	0.56	0.52
		L/100	28.32	18.06	12.89	9.78	7.71	6.24	5.15	4.31	3.65	3.12	2.68	2.32
		SLS L/150	18.88	12.05	8.59	6.52	5.14	4.16	3.43	2.87	2.43	2.08	1.80	1.55
		L/200	14.16	9.04	6.44	4.89	3.85	3.12	2.57	2.15	1.83	1.56	1.34	1.16
	II	ULS 2/4	5.43	3.28	2.30	1.77	1.44	1.23	1.08	0.96	0.60	0.39	0.26	0.18
		ULS 2/3	3.76	2.19	1.51	1.16	0.95	0.81	0.71	0.65	0.59	0.39	0.26	0.17
		L/100	28.32	18.06	12.89	9.78	7.71	6.24	5.15	4.31	3.65	3.12	2.68	2.32
		SLS L/150	18.88	12.05	8.59	6.52	5.14	4.16	3.43	2.87	2.43	2.08	1.80	1.55
		L/200	14.16	9.04	6.44	4.89	3.85	3.12	2.57	2.15	1.83	1.56	1.34	1.16
	III	ULS 2/4	5.01	2.93	2.02	1.51	1.25	0.73	0.01	0.00	0.00	0.00	0.00	0.00
		ULS 2/3	3.34	1.52	0.78	0.50	0.44	0.43	0.01	0.00	0.00	0.00	0.00	0.00
		L/100	28.32	18.06	12.89	9.78	7.71	6.24	5.15	4.31	3.65	3.12	2.68	2.32
		SLS L/150	18.88	12.05	8.59	6.52	5.14	4.16	3.43	2.87	2.43	2.08	1.80	1.55
		L/200	14.16	9.04	6.44	4.89	3.85	3.12	2.57	2.15	1.83	1.56	1.34	1.16
Multi-span system	I	ULS 2/4	5.90	3.80	2.82	2.26	1.89	1.63	1.42	1.27	1.15	1.05	0.97	0.84
		ULS 2/3	4.22	2.70	2.00	1.61	1.35	1.17	1.04	0.92	0.83	0.77	0.70	0.66
		L/100	28.38	18.19	13.02	9.89	7.77	6.26	5.12	4.24	3.54	2.99	2.54	2.17
		SLS L/150	18.93	12.13	8.68	6.59	5.18	4.17	3.41	2.83	2.36	1.99	1.70	1.46
		L/200	14.19	9.09	6.51	4.95	3.88	3.13	2.56	2.12	1.77	1.49	1.28	1.09
	II	ULS 2/4	5.66	3.62	2.69	2.16	1.80	1.56	1.38	1.24	0.93	0.72	0.57	0.46
		ULS 2/3	4.22	2.70	2.00	1.61	1.35	1.17	1.04	0.92	0.83	0.77	0.70	0.66
		L/100	28.38	18.19	13.02	9.89	7.77	6.26	5.12	4.24	3.54	2.99	2.54	2.17
		SLS L/150	18.93	12.13	8.68	6.59	5.18	4.17	3.41	2.83	2.36	1.99	1.70	1.46
		L/200	14.19	9.09	6.51	4.95	3.88	3.13	2.56	2.12	1.77	1.49	1.27	1.09
	III	ULS 2/4	5.31	3.37	2.47	2.00	1.60	0.61	0.20	0.01	0.00	0.00	0.00	0.00
		ULS 2/3	3.63	2.27	1.66	1.36	1.16	0.61	0.20	0.01	0.00	0.00	0.00	0.00
		L/100	28.38	18.19	13.02	9.89	7.77	6.26	5.12	4.24	3.54	2.99	2.54	2.17
		SLS L/150	18.93	12.13	8.68	6.59	5.18	4.17	3.41	2.83	2.36	1.99	1.70	1.45
		L/200	14.19	9.09	6.51	4.95	3.88	3.13	2.56	2.12	1.77	1.50	1.27	1.08

● **Maximum allowable wind pressure [kN/m²] for the length of span made of Ruukki SPB140W panels**

Table 8

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 60 mm
 Minimum intermediate support width: 120 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3 or 4

ULS – Ultimate Limit State
 SLS – Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS 3/0	8.66	5.77	4.33	3.46	2.89	2.47	2.17	1.92	1.73	1.57	1.45	1.33
		ULS 2/0	8.66	5.77	4.33	3.46	2.89	2.47	2.17	1.92	1.73	1.57	1.45	1.33
		L/100	33.19	21.10	14.87	11.03	8.45	6.60	5.25	4.23	3.44	2.83	2.35	1.96
		SLS L/150	22.12	14.07	9.91	7.35	5.63	4.41	3.50	2.82	2.30	1.89	1.57	1.31
		L/200	16.59	10.55	7.43	5.52	4.22	3.30	2.63	2.11	1.70	1.35	1.08	0.87
	II	ULS 3/0	8.66	5.77	4.33	3.46	2.89	2.47	2.17	1.92	1.73	1.57	1.44	1.33
		ULS 2/0	8.66	5.77	4.33	3.46	2.89	2.47	2.17	1.92	1.73	1.57	1.44	1.33
		L/100	33.19	21.10	14.87	11.03	8.45	6.60	5.25	4.23	3.44	2.83	2.35	1.96
		SLS L/150	22.12	14.07	9.91	7.35	5.63	4.41	3.50	2.82	2.30	1.89	1.57	1.31
		L/200	16.59	10.55	7.43	5.52	4.22	3.30	2.63	2.11	1.70	1.35	1.08	0.87
	III	ULS 3/0	8.66	5.77	4.33	3.46	2.89	2.47	2.17	1.92	1.73	1.57	1.44	1.33
		ULS 2/0	8.66	5.77	4.33	3.46	2.89	2.47	2.17	1.92	1.73	1.57	1.44	1.33
		L/100	33.19	21.10	14.87	11.03	8.45	6.60	5.25	4.23	3.44	2.83	2.35	1.96
		SLS L/150	22.12	14.07	9.91	7.35	5.63	4.41	3.50	2.82	2.30	1.89	1.56	1.31
		L/200	16.59	10.55	7.43	5.52	4.22	3.30	2.63	2.11	1.71	1.36	1.09	0.88
Double-span system	I	ULS 2/4	8.66	5.77	4.33	3.46	2.88	2.43	2.11	1.87	1.33	0.95	0.71	0.54
		ULS 2/3	8.66	5.77	4.33	3.46	2.88	2.43	2.11	1.87	1.33	0.95	0.71	0.54
		L/100	33.28	21.34	15.30	11.66	9.24	7.52	6.24	5.25	4.47	3.83	3.32	2.89
		SLS L/150	22.19	14.23	10.20	7.77	6.16	5.01	4.16	3.50	2.98	2.56	2.21	1.92
		L/200	16.64	10.67	7.65	5.83	4.62	3.76	3.12	2.62	2.23	1.92	1.66	1.44
	II	ULS 2/4	8.66	5.77	4.33	3.46	2.88	2.43	2.11	1.87	1.33	0.95	0.71	0.54
		ULS 2/3	8.66	5.77	4.33	3.46	2.88	2.43	2.11	1.87	1.33	0.95	0.71	0.54
		L/100	33.28	21.34	15.30	11.66	9.24	7.52	6.24	5.25	4.47	3.83	3.32	2.89
		SLS L/150	22.19	14.23	10.20	7.77	6.16	5.01	4.16	3.50	2.98	2.56	2.21	1.92
		L/200	16.64	10.67	7.65	5.83	4.62	3.76	3.12	2.62	2.23	1.92	1.66	1.44
	III	ULS 2/4	8.66	5.77	4.33	3.46	2.88	2.43	2.11	0.00	0.00	0.00	0.00	0.00
		ULS 2/3	8.66	5.77	4.33	3.46	2.88	2.43	2.11	0.00	0.00	0.00	0.00	0.00
		L/100	33.28	21.34	15.30	11.66	9.24	7.52	6.24	5.25	4.47	3.83	3.32	2.89
		SLS L/150	22.19	14.23	10.20	7.77	6.16	5.01	4.16	3.50	2.98	2.56	2.21	1.92
		L/200	16.64	10.67	7.65	5.83	4.62	3.76	3.12	2.62	2.23	1.92	1.66	1.44
Multi-span system	I	ULS 2/4	8.66	5.77	4.33	3.46	2.89	2.47	2.16	1.93	1.65	1.29	1.04	0.85
		ULS 2/3	8.66	5.77	4.33	3.46	2.89	2.47	2.16	1.93	1.65	1.29	1.04	0.85
		L/100	33.35	21.46	15.45	11.79	9.33	7.56	6.23	5.20	4.38	3.72	3.18	2.74
		SLS L/150	22.21	14.30	10.30	7.86	6.23	5.05	4.15	3.46	2.92	2.48	2.12	1.82
		L/200	16.67	10.73	7.73	5.90	4.67	3.78	3.12	2.60	2.18	1.86	1.59	1.37
	II	ULS 2/4	8.66	5.77	4.33	3.46	2.89	2.47	2.16	1.93	1.65	1.29	1.04	0.85
		ULS 2/3	8.66	5.77	4.33	3.46	2.89	2.47	2.16	1.93	1.65	1.29	1.04	0.85
		L/100	33.35	21.46	15.45	11.79	9.33	7.56	6.23	5.20	4.38	3.72	3.18	2.74
		SLS L/150	22.21	14.30	10.30	7.86	6.23	5.05	4.15	3.46	2.92	2.48	2.12	1.82
		L/200	16.67	10.73	7.73	5.90	4.67	3.78	3.12	2.60	2.18	1.86	1.59	1.37
	III	ULS 2/4	8.66	5.77	4.33	3.46	2.89	2.47	2.16	1.92	0.00	0.00	0.00	0.00
		ULS 2/3	8.66	5.77	4.33	3.46	2.89	2.47	2.16	1.92	0.00	0.00	0.00	0.00
		L/100	33.35	21.46	15.45	11.79	9.33	7.56	6.23	5.20	4.38	3.72	3.18	2.74
		SLS L/150	22.21	14.30	10.30	7.86	6.23	5.05	4.15	3.46	2.92	2.48	2.12	1.82
		L/200	16.67	10.73	7.73	5.90	4.67	3.78	3.12	2.60	2.18	1.86	1.59	1.37

● **Maximum allowable wind suction [kN/m²] for the length of span made of Ruukki SPB140W panels**

Table 9

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 60 mm
 Minimum intermediate support width: 120 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3 or 4

ULS – Ultimate Limit State
 SLS – Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS 3/0	9.49	6.24	4.65	3.71	3.08	2.63	2.04	2.04	1.84	1.67	1.53	1.38
		ULS 2/0	9.49	6.24	4.65	3.71	3.08	2.63	2.04	2.04	1.84	1.67	1.53	1.38
		L/100	33.19	21.10	14.86	11.03	8.44	6.60	4.23	4.94	3.44	2.83	2.35	1.97
		SLS L/150	22.12	14.07	9.91	7.35	5.63	4.40	2.82	3.29	2.29	1.89	1.56	1.31
		L/200	16.58	10.55	7.44	5.52	4.22	3.30	2.11	2.47	1.72	1.42	1.15	0.93
	II	ULS 3/0	9.49	6.24	4.65	3.71	3.08	2.63	2.04	2.04	1.84	1.67	1.53	1.38
		ULS 2/0	9.49	6.24	4.65	3.71	3.08	2.63	2.04	2.04	1.84	1.67	1.53	1.38
		L/100	33.19	21.10	14.86	11.03	8.44	6.60	4.23	4.94	3.44	2.83	2.35	1.97
		SLS L/150	22.12	14.07	9.91	7.35	5.63	4.40	2.82	3.29	2.29	1.89	1.55	1.25
		L/200	16.58	10.55	7.44	5.51	4.22	3.30	2.08	2.47	1.63	1.29	1.02	0.82
	III	ULS 3/0	9.49	6.24	4.65	3.71	3.08	2.63	2.04	2.04	1.84	1.67	1.53	1.38
		ULS 2/0	9.49	6.24	4.65	3.71	3.08	2.63	2.04	2.04	1.84	1.67	1.53	1.38
		L/100	33.19	21.10	14.86	11.03	8.44	6.60	4.22	4.94	3.44	2.83	2.35	1.96
		SLS L/150	22.12	14.07	9.91	7.35	5.63	4.40	2.78	3.29	2.18	1.71	1.36	1.09
		L/200	16.58	10.55	7.43	5.52	4.22	3.21	1.84	2.30	1.37	0.92	0.60	0.36
Double-span system	I	ULS 2/4	5.71	3.51	2.47	1.90	1.55	1.32	1.01	1.02	0.91	0.84	0.77	0.72
		ULS 2/3	4.03	2.41	1.68	1.28	1.04	0.89	0.69	0.69	0.63	0.58	0.54	0.50
		L/100	33.28	21.34	15.29	11.66	9.23	7.52	5.25	6.08	4.47	3.84	3.32	2.89
		SLS L/150	22.19	14.22	10.20	7.77	6.16	5.01	3.50	4.05	2.97	2.56	2.21	1.92
		L/200	16.63	10.67	7.65	5.83	4.62	3.76	2.62	3.04	2.23	1.92	1.66	1.44
	II	ULS 2/4	5.42	3.26	2.27	1.74	1.42	1.19	0.93	0.92	0.85	0.56	0.37	0.26
		ULS 2/3	3.74	2.17	1.45	1.03	0.84	0.72	0.61	0.60	0.56	0.52	0.37	0.26
		L/100	33.28	21.34	15.29	11.66	9.23	7.52	5.25	6.08	4.47	3.84	3.32	2.89
		SLS L/150	22.19	14.22	10.20	7.77	6.16	5.01	3.50	4.05	2.97	2.56	2.21	1.92
		L/200	16.63	10.67	7.65	5.83	4.62	3.76	2.62	3.04	2.23	1.92	1.66	1.44
	III	ULS 2/4	4.99	2.89	1.93	1.38	1.08	0.96	0.00	0.49	0.00	0.00	0.00	0.00
		ULS 2/3	3.32	1.38	0.60	0.34	0.25	0.25	0.00	0.26	0.00	0.00	0.00	0.00
		L/100	33.28	21.34	15.29	11.66	9.23	7.52	5.25	6.08	4.47	3.84	3.32	2.89
		SLS L/150	22.19	14.22	10.20	7.77	6.16	5.01	3.50	4.05	2.97	2.56	2.21	1.92
		L/200	16.63	10.67	7.65	5.83	4.62	3.76	2.62	3.04	2.23	1.92	1.66	1.44
Multi-span system	I	ULS 2/4	5.88	3.77	2.79	2.22	1.86	1.61	1.25	1.26	1.14	1.04	0.96	0.89
		ULS 2/3	4.20	2.66	1.97	1.58	1.33	1.15	0.90	0.91	0.82	0.75	0.70	0.65
		L/100	33.34	21.45	15.44	11.79	9.33	7.56	5.19	6.03	4.38	3.72	3.18	2.74
		SLS L/150	22.21	14.30	10.30	7.86	6.22	5.04	3.46	4.02	2.92	2.48	2.12	1.83
		L/200	16.67	10.73	7.72	5.89	4.66	3.78	2.60	3.02	2.19	1.86	1.59	1.37
	II	ULS 2/4	5.64	3.59	2.65	2.12	1.77	1.53	1.21	1.21	1.11	0.89	0.70	0.56
		ULS 2/3	4.20	2.66	1.97	1.58	1.33	1.15	0.90	0.91	0.82	0.75	0.70	0.65
		L/100	33.34	21.45	15.44	11.79	9.33	7.56	5.19	6.03	4.38	3.72	3.18	2.74
		SLS L/150	22.21	14.30	10.30	7.86	6.22	5.04	3.46	4.02	2.92	2.48	2.12	1.83
		L/200	16.67	10.73	7.72	5.89	4.66	3.78	2.60	3.02	2.19	1.86	1.60	1.37
	III	ULS 2/4	5.26	3.31	2.41	1.94	1.64	1.02	0.12	0.71	0.00	0.00	0.00	0.00
		ULS 2/3	3.58	2.20	1.63	1.30	1.12	0.99	0.12	0.71	0.00	0.00	0.00	0.00
		L/100	33.34	21.45	15.44	11.79	9.33	7.56	5.19	6.03	4.38	3.72	3.18	2.74
		SLS L/150	22.21	14.30	10.30	7.86	6.22	5.04	3.46	4.02	2.92	2.48	2.12	1.83
		L/200	16.67	10.73	7.72	5.89	4.66	3.78	2.60	3.01	2.19	1.87	1.59	1.37

● **Maximum allowable wind pressure [kN/m²] for the length of span made of Ruukki SPB160W panels**

Table 10

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 60 mm
 Minimum intermediate support width: 120 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3 or 4

ULS – Ultimate Limit State
 SLS – Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS 3/0	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20
		ULS 2/0	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20
		L/100	38.02	24.24	17.13	12.75	9.79	7.68	6.12	4.94	4.04	3.33	2.77	2.32
		SLS L/150	25.36	16.16	11.41	8.50	6.53	5.12	4.08	3.29	2.69	2.22	1.84	1.55
		L/200	19.01	12.12	8.56	6.37	4.90	3.84	3.06	2.47	2.02	1.66	1.34	1.09
	II	ULS 3/0	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20
		ULS 2/0	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20
		L/100	38.02	24.24	17.13	12.75	9.79	7.68	6.12	4.94	4.04	3.33	2.77	2.32
		SLS L/150	25.36	16.16	11.41	8.50	6.53	5.12	4.08	3.29	2.69	2.22	1.84	1.55
	III	L/200	19.01	12.12	8.56	6.37	4.90	3.84	3.06	2.47	2.02	1.66	1.35	1.10
		ULS 3/0	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20
		ULS 2/0	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20
L/100		38.02	24.24	17.13	12.75	9.79	7.68	6.12	4.94	4.04	3.33	2.77	2.32	
Double-span system	I	SLS L/150	25.36	16.16	11.41	8.50	6.53	5.12	4.08	3.29	2.69	2.22	1.84	1.55
		L/200	19.01	12.12	8.56	6.37	4.90	3.84	3.06	2.47	2.02	1.66	1.35	1.10
		ULS 2/4	7.79	5.20	3.90	3.12	2.55	2.16	1.87	1.65	1.48	1.35	1.03	0.81
		ULS 2/3	7.79	5.20	3.90	3.12	2.55	2.16	1.87	1.65	1.48	1.35	1.03	0.81
	II	L/100	38.12	24.49	17.59	13.43	10.65	8.68	7.21	6.08	5.18	4.45	3.86	3.37
		SLS L/150	25.42	16.32	11.73	8.95	7.10	5.78	4.81	4.05	3.45	2.97	2.57	2.24
		L/200	19.06	12.24	8.80	6.71	5.32	4.34	3.61	3.04	2.59	2.23	1.92	1.68
		ULS 2/4	7.79	5.20	3.90	3.12	2.55	2.16	1.87	1.65	1.48	1.35	1.03	0.81
	III	ULS 2/3	7.79	5.20	3.90	3.12	2.55	2.16	1.87	1.65	1.48	1.35	1.03	0.81
		L/100	38.12	24.49	17.59	13.43	10.65	8.68	7.21	6.08	5.18	4.45	3.86	3.37
		SLS L/150	25.42	16.32	11.73	8.95	7.10	5.78	4.81	4.05	3.45	2.97	2.57	2.24
		L/200	19.06	12.24	8.80	6.71	5.32	4.34	3.61	3.04	2.59	2.23	1.92	1.68
Multi-span system	I	ULS 2/4	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.55	1.42	1.30	1.15
		ULS 2/3	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.55	1.42	1.30	1.15
		L/100	38.19	24.62	17.74	13.58	10.77	8.74	7.21	6.03	5.09	4.34	3.72	3.20
		SLS L/150	25.47	16.42	11.83	9.05	7.18	5.83	4.81	4.02	3.40	2.89	2.48	2.13
	II	L/200	19.09	12.31	8.87	6.79	5.38	4.37	3.61	3.02	2.55	2.17	1.85	1.60
		ULS 2/4	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.55	1.42	1.30	1.15
		ULS 2/3	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.55	1.42	1.30	1.15
		L/100	38.19	24.62	17.74	13.58	10.77	8.74	7.21	6.03	5.09	4.34	3.72	3.20
	III	SLS L/150	25.47	16.42	11.83	9.05	7.18	5.83	4.81	4.02	3.40	2.89	2.48	2.13
		L/200	19.09	12.31	8.87	6.79	5.38	4.37	3.61	3.02	2.55	2.17	1.85	1.60
		ULS 2/4	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.15
		ULS 2/3	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.15
III	L/100	38.19	24.62	17.74	13.58	10.77	8.74	7.21	6.03	5.09	4.34	3.72	3.20	
	SLS L/150	25.47	16.42	11.83	9.05	7.18	5.83	4.81	4.02	3.40	2.89	2.48	2.13	
	L/200	19.09	12.31	8.87	6.79	5.38	4.37	3.61	3.02	2.55	2.17	1.85	1.60	
	ULS 2/4	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.15	
III	ULS 2/3	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.15	
	L/100	38.19	24.62	17.74	13.58	10.77	8.74	7.21	6.03	5.09	4.34	3.72	3.20	
	SLS L/150	25.47	16.42	11.83	9.05	7.18	5.83	4.81	4.02	3.40	2.89	2.48	2.13	
	L/200	19.09	12.31	8.87	6.79	5.38	4.37	3.61	3.02	2.55	2.17	1.85	1.60	

● **Maximum allowable wind suction [kN/m²] for the length of span made of Ruukki SPB160W panels**

Table 11

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 60 mm
 Minimum intermediate support width: 120 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3 or 4

ULS – Ultimate Limit State
 SLS – Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS 3/0	9.49	6.24	4.65	3.70	3.08	2.63	2.30	2.04	1.84	1.67	1.53	1.41
		ULS 2/0	9.49	6.24	4.65	3.70	3.08	2.63	2.30	2.04	1.84	1.67	1.53	1.41
		L/100	38.05	24.24	17.12	12.74	9.79	7.68	6.12	4.94	4.03	3.33	2.77	2.32
		SLS L/150	25.36	16.15	11.41	8.49	6.52	5.12	4.08	3.29	2.69	2.22	1.84	1.55
		L/200	19.03	12.12	8.56	6.37	4.89	3.84	3.06	2.47	2.02	1.67	1.39	1.15
	II	ULS 3/0	9.49	6.24	4.65	3.70	3.08	2.63	2.30	2.04	1.84	1.67	1.53	1.41
		ULS 2/0	9.49	6.24	4.65	3.70	3.08	2.63	2.30	2.04	1.84	1.67	1.53	1.41
		L/100	38.05	24.24	17.12	12.74	9.79	7.68	6.12	4.94	4.03	3.33	2.77	2.32
		SLS L/150	25.36	16.15	11.41	8.49	6.52	5.12	4.08	3.29	2.69	2.22	1.84	1.54
		L/200	19.03	12.12	8.56	6.37	4.89	3.84	3.06	2.47	2.01	1.60	1.28	1.04
	III	ULS 3/0	9.49	6.24	4.65	3.70	3.08	2.63	2.30	2.04	1.84	1.67	1.53	1.41
		ULS 2/0	9.49	6.24	4.65	3.70	3.08	2.63	2.30	2.04	1.84	1.67	1.53	1.41
		L/100	38.05	24.24	17.12	12.74	9.79	7.68	6.12	4.94	4.03	3.32	2.76	2.32
		SLS L/150	25.36	16.15	11.41	8.50	6.52	5.12	4.08	3.29	2.68	2.13	1.71	1.38
		L/200	19.03	12.12	8.56	6.37	4.89	3.83	2.98	2.30	1.78	1.39	1.00	0.70
Double-span system	I	ULS 2/4	5.71	3.50	2.47	1.90	1.55	1.31	1.14	1.02	0.91	0.83	0.77	0.71
		ULS 2/3	4.03	2.41	1.67	1.27	1.04	0.88	0.77	0.69	0.63	0.57	0.53	0.50
		L/100	38.15	24.49	17.58	13.43	10.64	8.68	7.21	6.08	5.18	4.46	3.86	3.37
		SLS L/150	25.42	16.33	11.72	8.95	7.10	5.78	4.81	4.05	3.45	2.97	2.57	2.25
		L/200	19.06	12.24	8.80	6.71	5.32	4.34	3.60	3.04	2.60	2.23	1.93	1.69
	II	ULS 2/4	5.42	3.26	2.26	1.73	1.41	1.19	1.03	0.92	0.84	0.78	0.68	0.51
		ULS 2/3	3.74	2.16	1.41	0.99	0.79	0.70	0.63	0.60	0.55	0.52	0.48	0.45
		L/100	38.15	24.49	17.58	13.43	10.64	8.68	7.21	6.08	5.18	4.46	3.86	3.37
		SLS L/150	25.42	16.33	11.72	8.95	7.10	5.78	4.81	4.05	3.45	2.97	2.57	2.25
		L/200	19.06	12.24	8.80	6.71	5.32	4.34	3.60	3.04	2.60	2.23	1.93	1.69
	III	ULS 2/4	4.99	2.88	1.88	1.32	1.03	0.91	0.84	0.49	0.11	0.00	0.00	0.00
		ULS 2/3	3.31	1.34	0.55	0.28	0.19	0.20	0.23	0.26	0.11	0.00	0.00	0.00
		L/100	38.15	24.49	17.58	13.43	10.64	8.68	7.21	6.08	5.18	4.46	3.86	3.37
		SLS L/150	25.42	16.33	11.72	8.95	7.10	5.78	4.81	4.05	3.45	2.97	2.57	2.25
		L/200	19.06	12.24	8.80	6.71	5.32	4.34	3.60	3.04	2.60	2.23	1.93	1.68
Multi-span system	I	ULS 2/4	5.87	3.76	2.77	2.21	1.86	1.60	1.41	1.26	1.13	1.04	0.95	0.88
		ULS 2/3	4.19	2.65	1.96	1.57	1.32	1.14	1.01	0.91	0.83	0.76	0.69	0.64
		L/100	38.21	24.63	17.74	13.57	10.76	8.74	7.21	6.03	5.09	4.33	3.71	3.20
		SLS L/150	25.47	16.42	11.83	9.05	7.17	5.83	4.81	4.02	3.39	2.89	2.48	2.14
		L/200	19.09	12.31	8.87	6.79	5.38	4.37	3.61	3.02	2.55	2.17	1.86	1.60
	II	ULS 2/4	5.63	3.57	2.64	2.11	1.77	1.52	1.34	1.21	1.10	1.01	0.93	0.85
		ULS 2/3	4.19	2.65	1.96	1.57	1.32	1.14	1.01	0.91	0.83	0.76	0.69	0.64
		L/100	38.21	24.63	17.74	13.57	10.76	8.74	7.21	6.03	5.09	4.33	3.71	3.20
		SLS L/150	25.47	16.42	11.83	9.05	7.17	5.83	4.81	4.02	3.39	2.89	2.48	2.14
		L/200	19.09	12.31	8.87	6.79	5.38	4.37	3.61	3.02	2.55	2.17	1.86	1.60
	III	ULS 2/4	5.25	3.29	2.42	1.92	1.63	1.42	1.21	0.71	0.43	0.27	0.17	0.11
		ULS 2/3	3.57	2.18	1.60	1.28	1.10	0.97	0.87	0.71	0.43	0.27	0.17	0.11
		L/100	38.21	24.63	17.74	13.57	10.76	8.74	7.21	6.03	5.09	4.33	3.71	3.20
		SLS L/150	25.47	16.42	11.83	9.05	7.17	5.83	4.81	4.02	3.39	2.89	2.48	2.14
		L/200	19.09	12.31	8.87	6.79	5.38	4.37	3.61	3.01	2.55	2.17	1.86	1.60

• **Maximum allowable wind pressure [kN/m²] for the length of span made of Ruukki SPB200W panels**

Table 12

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 60 mm
 Minimum intermediate support width: 120 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3 or 4

ULS – Ultimate Limit State
 SLS – Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS 3/0	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20
		ULS 2/0	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20
		L/100	47.98	30.87	22.04	16.62	12.94	10.29	8.31	6.79	5.61	4.68	3.93	3.33
		SLS L/150	32.00	20.57	14.69	11.08	8.62	6.86	5.54	4.53	3.74	3.12	2.62	2.22
		L/200	24.00	15.43	11.02	8.31	6.47	5.15	4.16	3.40	2.81	2.34	1.97	1.66
	II	ULS 3/0	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20
		ULS 2/0	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20
		L/100	47.98	30.87	22.04	16.62	12.94	10.29	8.31	6.79	5.61	4.68	3.93	3.33
		SLS L/150	32.00	20.57	14.69	11.08	8.62	6.86	5.54	4.53	3.74	3.12	2.62	2.22
		L/200	24.00	15.43	11.02	8.31	6.47	5.15	4.16	3.40	2.81	2.34	1.96	1.66
	III	ULS 3/0	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20
		ULS 2/0	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20
		L/100	47.98	30.87	22.04	16.62	12.94	10.29	8.31	6.79	5.61	4.68	3.93	3.33
		SLS L/150	32.00	20.57	14.69	11.08	8.62	6.86	5.54	4.53	3.74	3.12	2.62	2.21
		L/200	24.00	15.43	11.02	8.31	6.47	5.15	4.16	3.39	2.81	2.34	1.96	1.66
Double-span system	I	ULS 2/4	7.79	5.20	3.90	3.12	2.53	2.14	1.85	1.63	1.46	1.32	1.22	1.12
		ULS 2/3	7.79	5.20	3.90	3.12	2.53	2.14	1.85	1.63	1.46	1.32	1.22	1.12
		L/100	48.05	31.06	22.45	17.25	13.76	11.29	9.44	8.02	6.88	5.96	5.20	4.57
		SLS L/150	32.04	20.71	14.97	11.49	9.17	7.53	6.30	5.34	4.58	3.97	3.46	3.04
		L/200	24.02	15.53	11.23	8.62	6.88	5.65	4.72	4.01	3.44	2.98	2.60	2.28
	II	ULS 2/4	7.79	5.20	3.90	3.12	2.53	2.14	1.85	1.63	1.46	1.32	1.22	1.12
		ULS 2/3	7.79	5.20	3.90	3.12	2.53	2.14	1.85	1.63	1.46	1.32	1.22	1.12
		L/100	48.05	31.06	22.45	17.25	13.76	11.29	9.44	8.02	6.88	5.96	5.20	4.57
		SLS L/150	32.04	20.71	14.97	11.49	9.17	7.53	6.30	5.34	4.58	3.97	3.46	3.04
		L/200	24.02	15.53	11.23	8.62	6.88	5.65	4.72	4.01	3.44	2.98	2.60	2.28
	III	ULS 2/4	7.79	5.20	3.90	3.12	2.53	2.14	1.85	1.64	1.46	1.33	0.00	0.00
		ULS 2/3	7.79	5.20	5.20	3.90	3.90	1.93	1.93	0.00	0.00	0.00	0.00	0.00
		L/100	48.05	31.06	22.45	17.25	13.76	11.29	9.44	8.02	6.88	5.96	5.20	4.57
		SLS L/150	32.04	20.71	14.97	11.49	9.17	7.53	6.30	5.34	4.58	3.97	3.46	3.04
		L/200	24.02	15.53	11.23	8.62	6.88	5.65	4.72	4.01	3.44	2.98	2.60	2.28
Multi-span system	I	ULS 2/4	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20
		ULS 2/3	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20
		L/100	48.12	31.19	22.62	17.42	13.92	11.40	9.50	8.02	6.83	5.87	5.07	4.41
		SLS L/150	32.09	20.79	15.09	11.62	9.29	7.60	6.33	5.34	4.55	3.91	3.38	2.94
		L/200	24.06	15.59	11.31	8.71	6.96	5.70	4.75	4.01	3.42	2.93	2.54	2.20
	II	ULS 2/4	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20
		ULS 2/3	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20
		L/100	48.12	31.19	22.62	17.42	13.92	11.40	9.50	8.02	6.83	5.87	5.07	4.41
		SLS L/150	32.09	20.79	15.09	11.62	9.29	7.60	6.33	5.34	4.55	3.91	3.38	2.94
		L/200	24.06	15.59	11.31	8.71	6.96	5.70	4.75	4.01	3.42	2.93	2.54	2.20
	III	ULS 2/4	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.55	1.42	1.30	1.20
		ULS 2/3	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.55	1.42	1.30	1.20
		L/100	48.12	31.19	22.62	17.42	13.92	11.40	9.50	8.02	6.83	5.87	5.07	4.41
		SLS L/150	32.09	20.79	15.09	11.62	9.29	7.60	6.33	5.34	4.55	3.91	3.38	2.94
		L/200	24.06	15.59	11.31	8.71	6.96	5.70	4.75	4.01	3.42	2.93	2.54	2.20

• **Maximum allowable wind suction [kN/m²] for the length of span made of Ruukki SPB200W panels**

Table 13

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 60 mm
 Minimum intermediate support width: 120 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3 or 4

ULS – Ultimate Limit State
 SLS – Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS 3/0	9.49	6.24	4.65	3.70	3.08	2.63	2.30	2.04	1.84	1.67	1.53	1.41
		ULS 2/0	9.49	6.24	4.65	3.70	3.08	2.63	2.30	2.04	1.84	1.67	1.53	1.41
		L/100	47.98	30.87	22.04	16.61	12.94	10.28	8.31	6.80	5.61	4.68	3.93	3.33
		SLS L/150	32.00	20.56	14.69	11.07	8.62	6.86	5.54	4.53	3.74	3.12	2.62	2.22
		L/200	23.99	15.43	11.02	8.30	6.47	5.14	4.15	3.40	2.81	2.34	1.96	1.67
	II	ULS 3/0	9.49	6.24	4.65	3.70	3.08	2.63	2.30	2.04	1.84	1.67	1.53	1.41
		ULS 2/0	9.49	6.24	4.65	3.70	3.08	2.63	2.30	2.04	1.84	1.67	1.53	1.41
		L/100	47.98	30.87	22.04	16.61	12.94	10.28	8.31	6.80	5.61	4.68	3.93	3.33
		SLS L/150	32.00	20.56	14.69	11.07	8.62	6.86	5.54	4.53	3.74	3.12	2.62	2.22
		L/200	23.99	15.43	11.02	8.31	6.47	5.14	4.16	3.40	2.81	2.34	1.97	1.64
	III	ULS 3/0	9.49	6.24	4.65	3.70	3.08	2.63	2.30	2.04	1.84	1.67	1.53	1.41
		ULS 2/0	9.49	6.24	4.65	3.70	3.08	2.63	2.30	2.04	1.84	1.67	1.53	1.41
		L/100	47.98	30.87	22.04	16.61	12.94	10.28	8.31	6.79	5.61	4.68	3.93	3.33
		SLS L/150	32.00	20.56	14.69	11.08	8.62	6.86	5.54	4.53	3.74	3.12	2.62	2.18
		L/200	23.99	15.43	11.02	8.31	6.47	5.15	4.15	3.40	2.73	2.19	1.77	1.44
Double-span system	I	ULS 2/4	5.72	3.49	2.44	1.86	1.50	1.27	1.10	0.98	0.88	0.81	0.73	0.69
		ULS 2/3	4.03	2.39	1.64	1.23	0.99	0.83	0.73	0.65	0.59	0.55	0.51	0.47
		L/100	48.07	31.07	22.45	17.24	13.77	11.29	9.44	8.01	6.88	5.96	5.20	4.56
		SLS L/150	32.04	20.72	14.96	11.49	9.18	7.52	6.29	5.34	4.59	3.97	3.47	3.04
		L/200	24.02	15.53	11.22	8.62	6.88	5.65	4.72	4.01	3.45	2.98	2.60	2.28
	II	ULS 2/4	5.42	3.23	2.22	1.67	1.35	1.14	0.99	0.87	0.79	0.73	0.68	0.63
		ULS 2/3	3.73	2.13	1.24	0.79	0.59	0.50	0.46	0.43	0.42	0.42	0.42	0.41
		L/100	48.07	31.07	22.45	17.24	13.77	11.29	9.44	8.01	6.88	5.96	5.20	4.56
		SLS L/150	32.04	20.72	14.96	11.49	9.18	7.52	6.29	5.34	4.59	3.97	3.47	3.04
		L/200	24.02	15.53	11.22	8.62	6.88	5.65	4.72	4.01	3.45	2.98	2.60	2.28
	III	ULS 2/4	4.97	2.84	1.65	1.06	0.79	0.64	0.59	0.57	0.50	0.14	0.00	0.00
		ULS 2/3	3.28	2.03	1.15	0.63	0.30	0.11	0.01	0.00	0.00	0.00	0.00	0.00
		L/100	48.07	31.07	22.45	17.24	13.77	11.29	9.44	8.01	6.88	5.96	5.20	4.56
		SLS L/150	32.04	20.72	14.96	11.49	9.18	7.52	6.29	5.34	4.59	3.97	3.47	3.04
		L/200	24.02	15.53	11.22	8.62	6.88	5.65	4.72	4.01	3.45	2.98	2.60	2.28
Multi-span system	I	ULS 2/4	5.85	3.72	2.73	2.17	1.81	1.56	1.38	1.24	1.12	1.03	0.93	0.87
		ULS 2/3	4.16	2.61	1.91	1.52	1.27	1.10	0.98	0.88	0.80	0.74	0.68	0.63
		L/100	48.13	31.18	22.62	17.43	13.92	11.40	9.50	8.01	6.83	5.87	5.07	4.41
		SLS L/150	32.09	20.79	15.08	11.61	9.28	7.60	6.33	5.34	4.56	3.91	3.38	2.94
		L/200	24.06	15.60	11.31	8.71	6.96	5.70	4.75	4.01	3.41	2.93	2.54	2.20
	II	ULS 2/4	5.59	3.51	2.57	2.04	1.71	1.49	1.30	1.17	1.07	0.97	0.91	0.84
		ULS 2/3	4.16	2.61	1.91	1.52	1.27	1.10	0.98	0.88	0.80	0.74	0.68	0.63
		L/100	48.13	31.18	22.62	17.43	13.92	11.40	9.50	8.01	6.83	5.87	5.07	4.41
		SLS L/150	32.09	20.79	15.08	11.61	9.28	7.60	6.33	5.34	4.56	3.91	3.38	2.94
		L/200	24.06	15.60	11.31	8.71	6.96	5.70	4.75	4.01	3.41	2.93	2.54	2.21
	III	ULS 2/4	5.20	3.20	2.33	1.86	1.54	1.36	1.21	1.09	0.71	0.45	0.29	0.19
		ULS 2/3	3.50	2.09	1.44	1.18	1.01	0.90	0.81	0.74	0.69	0.45	0.29	0.19
		L/100	48.13	31.18	22.62	17.43	13.92	11.40	9.50	8.01	6.83	5.87	5.07	4.41
		SLS L/150	32.09	20.79	15.08	11.61	9.28	7.60	6.33	5.34	4.56	3.91	3.38	2.94
		L/200	24.06	15.60	11.31	8.71	6.96	5.70	4.75	4.01	3.42	2.93	2.54	2.21

● **Maximum allowable snow load [kN/m²] for the length of span made of Ruukki SPC 140/100W panels**

Table 14

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 40 mm
 Minimum intermediate support width: 60 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3

ULS - Ultimate Limit State
 ULS 2/0 - Ultimate Limit State; 2 fasteners at an end support
 ULS 1/0 - Ultimate Limit State; 1 fastener at an end support
 ULS 2/3 - Ultimate Limit State; 2 fasteners at an end support / 3 fasteners at an intermediate support
 ULS 1/3 - Ultimate Limit State; 1 fastener at an end support j / 3 fasteners at an intermediate support
 SLS - Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS 2/0	3.97	3.34	2.61	2.08	1.71	1.43	1.18	0.96	0.79	0.65	0.53	0.43
		ULS 1/0	3.97	3.34	2.61	2.08	1.71	1.43	1.18	0.96	0.79	0.65	0.53	0.43
		SLS L/200	14.61	5.95	3.37	2.22	1.59	1.18	0.90	0.69	0.53	0.42	0.29	0.00
		SLS L/250	11.64	4.72	2.65	1.74	1.22	0.90	0.68	0.51	0.37	0.00	0.00	0.00
	II	ULS 2/0	3.97	3.34	2.61	2.08	1.71	1.43	1.18	0.96	0.79	0.65	0.53	0.43
		ULS 1/0	3.97	3.34	2.61	2.08	1.71	1.43	1.18	0.96	0.79	0.65	0.53	0.43
		SLS L/200	14.61	5.95	3.37	2.22	1.59	1.18	0.90	0.69	0.53	0.42	0.29	0.00
		SLS L/250	11.64	4.72	2.65	1.74	1.22	0.90	0.68	0.51	0.37	0.00	0.00	0.00
	III	ULS 2/0	3.97	3.34	2.61	2.08	1.71	1.43	1.18	0.96	0.79	0.65	0.53	0.43
		ULS 1/0	3.97	3.34	2.61	2.08	1.71	1.43	1.18	0.96	0.79	0.65	0.53	0.43
		SLS L/200	14.61	5.95	3.37	2.22	1.59	1.18	0.90	0.69	0.53	0.42	0.29	0.00
		SLS L/250	11.64	4.72	2.65	1.74	1.22	0.90	0.68	0.51	0.37	0.00	0.00	0.00
Double-span system	I	ULS 2/0	2.88	1.80	1.28	0.97	0.77	0.62	0.52	0.44	0.38	0.32	0.28	0.24
		ULS 1/0	2.88	1.80	1.28	0.97	0.77	0.62	0.52	0.44	0.38	0.32	0.28	0.24
		SLS L/200	29.28	10.60	5.52	3.44	2.39	1.76	1.34	1.06	0.85	0.68	0.56	0.45
		SLS L/250	23.38	8.44	4.37	2.71	1.86	1.36	1.04	0.80	0.63	0.50	0.40	0.32
	II	ULS 2/0	2.88	1.80	1.28	0.97	0.77	0.62	0.52	0.44	0.38	0.32	0.28	0.24
		ULS 1/0	2.88	1.80	1.28	0.97	0.77	0.62	0.52	0.44	0.38	0.32	0.28	0.24
		SLS L/200	29.28	10.60	5.52	3.44	2.39	1.76	1.34	1.06	0.85	0.68	0.56	0.45
		SLS L/250	23.38	8.44	4.37	2.71	1.86	1.36	1.04	0.80	0.63	0.50	0.40	0.32
	III	ULS 2/0	2.88	1.80	1.28	0.97	0.77	0.62	0.52	0.44	0.38	0.32	0.28	0.24
		ULS 1/0	2.88	1.80	1.28	0.97	0.77	0.62	0.52	0.44	0.38	0.32	0.28	0.24
		SLS L/200	29.28	10.60	5.52	3.44	2.39	1.76	1.34	1.06	0.85	0.68	0.56	0.45
		SLS L/250	23.38	8.44	4.37	2.71	1.86	1.36	1.04	0.80	0.63	0.50	0.40	0.32
Multi-span system	I	ULS 2/0	3.19	2.05	1.49	1.16	0.94	0.77	0.66	0.55	0.48	0.42	0.38	0.33
		ULS 1/0	3.19	2.05	1.49	1.16	0.94	0.77	0.66	0.55	0.48	0.42	0.38	0.33
		SLS L/200	25.41	9.66	5.18	3.29	2.30	1.70	1.29	1.01	0.81	0.65	0.52	0.42
		SLS L/250	20.29	7.68	4.10	2.59	1.80	1.31	0.99	0.77	0.60	0.47	0.37	0.29
	II	ULS 2/0	3.19	2.05	1.49	1.16	0.94	0.77	0.66	0.55	0.48	0.42	0.38	0.33
		ULS 1/0	3.19	2.05	1.49	1.16	0.94	0.77	0.66	0.55	0.48	0.42	0.38	0.33
		SLS L/200	25.41	9.66	5.18	3.29	2.30	1.70	1.29	1.01	0.81	0.65	0.52	0.42
		SLS L/250	20.29	7.68	4.10	2.59	1.80	1.31	0.99	0.77	0.60	0.47	0.37	0.29
	III	ULS 2/0	3.19	2.05	1.49	1.16	0.94	0.77	0.66	0.55	0.48	0.42	0.38	0.33
		ULS 1/0	3.19	2.05	1.49	1.16	0.94	0.77	0.66	0.55	0.48	0.42	0.38	0.33
		SLS L/200	25.41	9.66	5.18	3.29	2.30	1.70	1.29	1.01	0.81	0.65	0.52	0.42
		SLS L/250	20.29	7.68	4.10	2.59	1.80	1.31	0.99	0.77	0.60	0.47	0.37	0.29

• **Maximum allowable wind suction [kN/m²] for the length of span made of Ruukki SPC 140/100W panels**

Table 15

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 40 mm
 Minimum intermediate support width: 60 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3

ULS - Ultimate Limit State
 ULS 2/0 - Ultimate Limit State; 2 fasteners at an end support
 ULS 1/0 - Ultimate Limit State; 1 fastener at an end support
 ULS 2/3 - Ultimate Limit State; 2 fasteners at an end support / 3 fasteners at an intermediate support
 ULS 1/3 - Ultimate Limit State; 1 fastener at an end support j / 3 fasteners at an intermediate support
 SLS - Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS 2/0	4.48	3.85	3.63	2.94	2.48	2.15	1.91	1.72	1.56	1.44	1.27	1.11
		ULS 1/0	3.70	2.51	1.92	1.57	1.35	1.19	1.06	0.97	0.89	0.83	0.78	0.74
		SLS L/200	15.04	6.38	3.81	2.66	2.03	1.62	1.34	1.13	0.98	0.86	0.75	0.00
		SLS L/250	12.07	5.15	3.09	2.17	1.66	1.34	1.11	0.96	0.83	0.00	0.00	0.00
	II	ULS 2/0	4.48	3.85	3.63	2.94	2.48	2.15	1.91	1.72	1.56	1.44	1.27	1.11
		ULS 1/0	3.70	2.51	1.92	1.57	1.35	1.19	1.06	0.97	0.89	0.83	0.78	0.74
		SLS L/200	15.04	6.38	3.81	2.66	2.03	1.62	1.34	1.13	0.98	0.86	0.75	0.00
		SLS L/250	12.07	5.15	3.09	2.17	1.66	1.34	1.11	0.96	0.83	0.00	0.00	0.00
	III	ULS 2/0	4.48	3.85	3.63	2.94	2.48	2.15	1.91	1.72	1.56	1.44	1.27	1.11
		ULS 1/0	3.70	2.51	1.92	1.57	1.35	1.19	1.06	0.97	0.89	0.83	0.78	0.74
		SLS L/200	15.04	6.38	3.81	2.66	2.03	1.62	1.34	1.13	0.98	0.86	0.75	0.00
		SLS L/250	12.07	5.15	3.09	2.17	1.66	1.34	1.11	0.96	0.83	0.00	0.00	0.00
Double-span system	I	ULS 2/0	3.64	2.52	1.97	1.53	1.23	1.03	0.89	0.79	0.71	0.65	0.60	0.55
		ULS 1/0	3.64	2.31	1.68	1.35	1.16	1.03	0.89	0.79	0.70	0.65	0.60	0.55
		SLS L/200	29.73	11.03	5.95	3.88	2.82	2.20	1.79	1.50	1.29	1.12	1.00	0.90
		SLS L/250	23.83	8.88	4.80	3.15	2.30	1.80	1.47	1.24	1.07	0.94	0.84	0.76
	II	ULS 2/0	3.64	2.52	1.97	1.50	1.18	0.97	0.84	0.73	0.66	0.61	0.56	0.53
		ULS 1/0	3.64	2.31	1.68	1.35	1.16	0.97	0.83	0.73	0.66	0.61	0.57	0.54
		SLS L/200	29.73	11.03	5.95	3.88	2.82	2.20	1.79	1.50	1.29	1.12	1.00	0.90
		SLS L/250	23.83	8.88	4.80	3.15	2.30	1.80	1.47	1.24	1.07	0.94	0.84	0.76
	III	ULS 2/0	3.64	2.52	1.96	1.41	1.08	0.88	0.75	0.66	0.59	0.54	0.50	0.48
		ULS 1/0	3.64	2.31	1.68	1.35	1.08	0.87	0.75	0.66	0.59	0.54	0.51	0.47
		SLS L/200	29.73	11.03	5.95	3.88	2.82	2.20	1.79	1.50	1.29	1.12	1.00	0.90
		SLS L/250	23.83	8.88	4.80	3.15	2.30	1.80	1.47	1.24	1.07	0.94	0.84	0.76
Multi-span system	I	ULS 2/0	3.89	2.72	2.11	1.66	1.32	1.10	0.95	0.85	0.76	0.69	0.63	0.59
		ULS 1/0	3.12	1.97	1.49	1.25	1.09	1.00	0.93	0.84	0.76	0.69	0.64	0.59
		SLS L/200	25.85	10.09	5.62	3.73	2.74	2.14	1.74	1.46	1.25	1.09	0.96	0.86
		SLS L/250	20.72	8.12	4.54	3.03	2.24	1.75	1.43	1.21	1.04	0.91	0.81	0.73
	II	ULS 2/0	3.89	2.72	2.11	1.57	1.24	1.03	0.89	0.79	0.72	0.66	0.62	0.58
		ULS 1/0	3.12	1.97	1.49	1.24	1.09	1.00	0.89	0.79	0.72	0.66	0.62	0.59
		SLS L/200	27.60	11.25	6.49	4.44	3.34	2.67	2.21	1.88	1.64	1.45	1.30	1.17
		SLS L/250	20.72	8.12	4.54	3.03	2.24	1.75	1.43	1.21	1.04	0.91	0.81	0.73
	III	ULS 2/0	3.89	2.72	2.02	1.43	1.11	0.92	0.79	0.71	0.64	0.59	0.55	0.52
		ULS 1/0	3.12	1.97	1.47	1.24	1.09	0.92	0.79	0.71	0.64	0.59	0.55	0.52
		SLS L/200	25.85	10.09	5.62	3.73	2.74	2.14	1.74	1.46	1.25	1.09	0.96	0.86
		SLS L/250	20.72	8.12	4.54	3.03	2.24	1.75	1.43	1.21	1.04	0.91	0.81	0.73

● **Maximum allowable snow load [kN/m²] for the length of span made of Ruukki SPC 190/150W panels**

Table 16

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 40 mm
 Minimum intermediate support width: 60 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3

ULS - Ultimate Limit State
 ULS 2/0 - Ultimate Limit State; 2 fasteners at an end support
 ULS 1/0 - Ultimate Limit State; 1 fastener at an end support
 ULS 2/3 - Ultimate Limit State; 2 fasteners at an end support / 3 fasteners at an intermediate support
 ULS 1/3 - Ultimate Limit State; 1 fastener at an end support j / 3 fasteners at an intermediate support
 SLS - Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS 2/0	6.44	4.11	3.16	2.63	2.25	1.95	1.69	1.46	1.26	1.09	0.94	0.79
		ULS 1/0	6.44	4.11	3.16	2.63	2.25	1.95	1.69	1.46	1.26	1.09	0.94	0.79
		SLS L/200	15.84	6.78	4.00	2.73	2.01	1.55	1.22	0.98	0.79	0.64	0.51	0.41
		SLS L/250	12.63	5.36	3.14	2.13	1.55	1.18	0.92	0.72	0.57	0.45	0.35	0.00
	II	ULS 2/0	6.44	4.11	3.16	2.63	2.25	1.95	1.69	1.46	1.26	1.09	0.94	0.79
		ULS 1/0	6.44	4.11	3.16	2.63	2.25	1.95	1.69	1.46	1.26	1.09	0.94	0.79
		SLS L/200	15.84	6.78	4.00	2.73	2.01	1.55	1.22	0.98	0.79	0.64	0.51	0.41
		SLS L/250	12.63	5.36	3.14	2.13	1.55	1.18	0.92	0.72	0.57	0.45	0.35	0.00
	III	ULS 2/0	6.44	4.11	3.16	2.63	2.25	1.95	1.69	1.46	1.26	1.09	0.94	0.79
		ULS 1/0	6.44	4.11	3.16	2.63	2.25	1.95	1.69	1.46	1.26	1.09	0.94	0.79
		SLS L/200	15.84	6.78	4.00	2.73	2.01	1.55	1.22	0.98	0.79	0.64	0.51	0.41
		SLS L/250	12.63	5.36	3.14	2.13	1.55	1.18	0.92	0.72	0.57	0.45	0.35	0.00
Double-span system	I	ULS 2/0	4.64	2.99	2.16	1.66	1.33	1.08	0.91	0.77	0.66	0.54	0.44	0.36
		ULS 1/0	4.64	2.99	2.16	1.66	1.33	1.08	0.91	0.77	0.66	0.54	0.44	0.36
		SLS L/200	30.72	11.56	6.23	4.01	2.85	2.15	1.67	1.35	1.09	0.90	0.75	0.63
		SLS L/250	24.52	9.19	4.93	3.15	2.22	1.66	1.28	1.02	0.82	0.67	0.55	0.45
	II	ULS 2/0	4.64	2.99	2.16	1.66	1.33	1.08	0.91	0.77	0.66	0.54	0.44	0.36
		ULS 1/0	4.64	2.99	2.16	1.66	1.33	1.08	0.91	0.77	0.66	0.54	0.44	0.36
		SLS L/200	30.72	11.56	6.23	4.01	2.85	2.15	1.67	1.35	1.09	0.90	0.75	0.63
		SLS L/250	24.52	9.19	4.93	3.15	2.22	1.66	1.28	1.02	0.82	0.67	0.55	0.45
	III	ULS 2/0	4.64	2.99	2.16	1.66	1.33	1.08	0.91	0.77	0.66	0.54	0.44	0.36
		ULS 1/0	4.64	2.99	2.16	1.66	1.33	1.08	0.91	0.77	0.66	0.54	0.44	0.36
		SLS L/200	30.72	11.56	6.23	4.01	2.85	2.15	1.67	1.35	1.09	0.90	0.75	0.63
		SLS L/250	24.52	9.19	4.93	3.15	2.22	1.66	1.28	1.02	0.82	0.67	0.55	0.45
Multi-span system	I	ULS 2/0	5.08	3.31	2.41	1.87	1.52	1.26	1.07	0.92	0.80	0.68	0.57	0.49
		ULS 1/0	5.08	3.31	2.41	1.87	1.52	1.26	1.07	0.92	0.80	0.68	0.57	0.49
		SLS L/200	27.04	10.69	5.93	3.88	2.78	2.10	1.64	1.32	1.08	0.89	0.73	0.61
		SLS L/250	21.57	8.50	4.69	3.05	2.17	1.62	1.26	1.00	0.81	0.65	0.53	0.43
	II	ULS 2/0	5.08	3.31	2.41	1.87	1.52	1.26	1.07	0.92	0.80	0.68	0.57	0.49
		ULS 1/0	5.08	3.31	2.41	1.87	1.52	1.26	1.07	0.92	0.80	0.68	0.57	0.49
		SLS L/200	27.04	10.69	5.93	3.88	2.78	2.10	1.64	1.32	1.08	0.89	0.73	0.61
		SLS L/250	21.57	8.50	4.69	3.05	2.17	1.62	1.26	1.00	0.81	0.65	0.53	0.43
	III	ULS 2/0	5.08	3.31	2.41	1.87	1.52	1.26	1.07	0.92	0.80	0.68	0.57	0.49
		ULS 1/0	5.08	3.31	2.41	1.87	1.52	1.26	1.07	0.92	0.80	0.68	0.57	0.49
		SLS L/200	27.04	10.69	5.93	3.88	2.78	2.10	1.64	1.32	1.08	0.89	0.73	0.61
		SLS L/250	21.57	8.50	4.69	3.05	2.17	1.62	1.26	1.00	0.81	0.65	0.53	0.43

• **Maximum allowable wind suction [kN/m²] for the length of span made of Ruukki SPC 190/150W panels**

Table 17

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 40 mm
 Minimum intermediate support width: 60 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3

ULS - Ultimate Limit State
 ULS 2/0 - Ultimate Limit State; 2 fasteners at an end support
 ULS 1/0 - Ultimate Limit State; 1 fastener at an end support
 ULS 2/3 - Ultimate Limit State; 2 fasteners at an end support / 3 fasteners at an intermediate support
 ULS 1/3 - Ultimate Limit State; 1 fastener at an end support j / 3 fasteners at an intermediate support
 SLS - Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS 2/0	7.11	4.86	3.69	3.00	2.54	2.21	1.97	1.78	1.63	1.50	1.40	1.32
		ULS 1/0	3.76	2.57	1.99	1.64	1.41	1.25	1.13	1.03	0.95	0.90	0.84	0.80
		SLS L/200	16.40	7.34	4.56	3.30	2.58	2.11	1.78	1.53	1.35	1.20	1.07	0.97
		SLS L/250	13.19	5.93	3.71	2.70	2.12	1.75	1.48	1.28	1.13	1.01	0.91	0.00
	II	ULS 2/0	7.11	4.86	3.69	3.00	2.54	2.21	1.97	1.78	1.63	1.50	1.40	1.32
		ULS 1/0	3.76	2.57	1.99	1.64	1.41	1.25	1.13	1.03	0.95	0.90	0.84	0.80
		SLS L/200	16.40	7.34	4.56	3.30	2.58	2.11	1.78	1.53	1.35	1.20	1.07	0.97
		SLS L/250	13.19	5.93	3.71	2.70	2.12	1.75	1.48	1.28	1.13	1.01	0.91	0.00
	III	ULS 2/0	7.11	4.86	3.69	3.00	2.54	2.21	1.97	1.78	1.63	1.50	1.40	1.32
		ULS 1/0	3.76	2.57	1.99	1.64	1.41	1.25	1.13	1.03	0.95	0.90	0.84	0.80
		SLS L/200	16.40	7.34	4.56	3.30	2.58	2.11	1.78	1.53	1.35	1.20	1.07	0.97
		SLS L/250	13.19	5.93	3.71	2.70	2.12	1.75	1.48	1.28	1.13	1.01	0.91	0.00
Double-span system	I	ULS 2/0	4.93	3.29	2.25	1.73	1.41	1.20	1.05	0.94	0.85	0.78	0.73	0.68
		ULS 1/0	3.76	2.42	1.75	1.39	1.18	1.03	0.94	0.88	0.82	0.78	0.73	0.68
		SLS L/200	31.28	12.12	6.79	4.57	3.41	2.72	2.24	1.90	1.65	1.47	1.32	1.19
		SLS L/250	25.09	9.75	5.49	3.71	2.80	2.23	1.85	1.58	1.38	1.23	1.11	1.01
	II	ULS 2/0	4.93	3.29	2.25	1.73	1.41	1.18	1.02	0.90	0.81	0.75	0.70	0.65
		ULS 1/0	3.76	2.42	1.75	1.39	1.17	1.04	0.94	0.88	0.81	0.75	0.69	0.65
		SLS L/200	31.28	12.12	6.79	4.57	3.41	2.72	2.24	1.90	1.65	1.47	1.32	1.19
		SLS L/250	25.09	9.75	5.49	3.71	2.80	2.23	1.85	1.58	1.38	1.23	1.11	1.01
	III	ULS 2/0	4.93	3.29	2.25	1.69	1.34	1.10	0.94	0.83	0.74	0.68	0.63	0.59
		ULS 1/0	3.76	2.42	1.75	1.38	1.17	1.03	0.94	0.83	0.74	0.68	0.63	0.60
		SLS L/200	31.28	12.12	6.79	4.57	3.41	2.72	2.24	1.90	1.65	1.47	1.32	1.19
		SLS L/250	25.09	9.75	5.49	3.71	2.80	2.23	1.85	1.58	1.38	1.23	1.11	1.01
Multi-span system	I	ULS 2/0	5.46	3.74	2.49	1.87	1.51	1.27	1.11	0.99	0.89	0.82	0.77	0.72
		ULS 1/0	3.29	2.00	1.47	1.21	1.06	0.97	0.89	0.84	0.81	0.78	0.75	0.72
		SLS L/200	27.60	11.25	6.49	4.44	3.34	2.67	2.21	1.88	1.64	1.45	1.30	1.17
		SLS L/250	22.15	9.06	5.25	3.61	2.74	2.19	1.82	1.56	1.37	1.22	1.09	0.99
	II	ULS 2/0	5.46	3.74	2.47	1.82	1.44	1.20	1.04	0.93	0.85	0.79	0.74	0.70
		ULS 1/0	3.29	2.00	1.47	1.21	1.06	0.96	0.89	0.84	0.81	0.78	0.74	0.70
		SLS L/200	25.85	10.09	5.62	3.73	2.74	2.14	1.74	1.46	1.25	1.09	0.96	0.86
		SLS L/250	22.15	9.06	5.25	3.61	2.74	2.19	1.82	1.56	1.37	1.22	1.09	0.99
	III	ULS 2/0	5.46	3.68	2.34	1.70	1.34	1.10	0.95	0.85	0.77	0.71	0.67	0.63
		ULS 1/0	3.29	2.00	1.48	1.21	1.05	0.95	0.89	0.85	0.77	0.71	0.67	0.63
		SLS L/200	27.60	11.25	6.49	4.44	3.34	2.67	2.21	1.88	1.64	1.45	1.30	1.17
		SLS L/250	22.15	9.06	5.25	3.61	2.74	2.19	1.82	1.56	1.37	1.22	1.09	0.99

• **Maximum allowable wind pressure [kN/m²] for the length of span made of Ruukki SP2D100W panels**

Table 18

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 40 mm
 Minimum intermediate support width: 60 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3 or 4

ULS – Ultimate Limit State
 SLS – Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS	8.58	5.64	4.21	3.35	2.78	2.38	2.08	1.85	1.66	1.51	1.31	1.12
		L/100	23.26	14.52	10.02	7.26	5.43	4.15	3.22	2.55	2.04	1.65	1.35	1.12
		SLS L/150	15.51	9.68	6.68	4.84	3.62	2.76	2.15	1.70	1.32	1.03	0.80	0.63
		L/200	11.63	7.26	5.01	3.63	2.72	2.06	1.53	1.14	0.87	0.62	0.41	0.27
	II	ULS	8.58	5.64	4.21	3.35	2.78	2.38	2.08	1.85	1.66	1.51	1.31	1.11
		L/100	23.26	14.52	10.02	7.26	5.43	4.15	3.22	2.55	2.04	1.65	1.35	1.12
		SLS L/150	15.51	9.68	6.68	4.84	3.62	2.76	2.15	1.70	1.32	1.03	0.80	0.63
		L/200	11.63	7.26	5.01	3.63	2.72	2.06	1.53	1.14	0.87	0.62	0.41	0.27
	III	ULS	8.58	5.64	4.21	3.35	2.78	2.38	2.08	1.85	1.66	1.51	1.30	1.11
		L/100	23.26	14.52	10.02	7.26	5.43	4.15	3.22	2.55	2.04	1.65	1.35	1.12
		SLS L/150	15.51	9.68	6.68	4.84	3.62	2.76	2.15	1.70	1.32	1.03	0.80	0.63
		L/200	11.63	7.26	5.01	3.63	2.72	2.06	1.53	1.14	0.87	0.62	0.00	0.00
Double-span system	I	ULS	8.58	5.64	4.20	3.35	2.78	2.38	1.61	1.06	0.73	0.53	0.40	0.31
		L/100	23.36	14.81	10.50	7.92	6.21	4.99	4.09	3.40	2.86	2.43	2.07	1.78
		SLS L/150	15.58	9.88	7.00	5.28	4.14	3.33	2.73	2.27	1.91	1.62	1.38	1.19
		L/200	11.68	7.41	5.25	3.96	3.10	2.50	2.04	1.70	1.43	1.21	1.03	0.89
	II	ULS	8.58	5.64	4.20	3.35	2.78	2.38	1.61	1.06	0.73	0.53	0.40	0.31
		L/100	23.36	14.81	10.50	7.92	6.21	4.99	4.09	3.40	2.86	2.43	2.07	1.78
		SLS L/150	15.58	9.88	7.00	5.28	4.14	3.33	2.73	2.27	1.91	1.62	1.38	1.19
		L/200	11.68	7.41	5.25	3.96	3.10	2.50	2.04	1.70	1.43	1.21	1.03	0.89
	III	ULS	8.58	5.64	4.20	3.35	2.78	2.38	0.00	0.00	0.00	0.00	0.00	0.00
		L/100	23.36	14.81	10.50	7.92	6.21	4.99	4.09	3.40	2.86	2.43	2.07	1.78
		SLS L/150	15.58	9.88	7.00	5.28	4.14	3.33	2.73	2.27	1.91	1.62	1.38	1.19
		L/200	11.68	7.41	5.25	3.96	3.10	2.50	2.04	1.70	1.43	1.21	1.03	0.89
Multi-span system	I	ULS	8.58	5.64	4.20	3.35	2.78	2.38	1.90	1.40	1.07	0.85	0.69	0.57
		L/100	23.43	14.94	10.63	8.00	6.23	4.98	4.03	3.31	2.74	2.30	1.94	1.65
		SLS L/150	15.63	9.96	7.08	5.33	4.16	3.32	2.69	2.21	1.83	1.53	1.29	1.09
		L/200	11.72	7.47	5.31	4.01	3.12	2.49	2.02	1.66	1.37	1.14	0.97	0.82
	II	ULS	8.58	5.64	4.20	3.35	2.78	2.38	1.90	1.40	1.07	0.85	0.69	0.57
		L/100	23.43	14.94	10.63	8.00	6.23	4.98	4.03	3.31	2.74	2.30	1.94	1.65
		SLS L/150	15.63	9.96	7.08	5.33	4.16	3.32	2.69	2.21	1.83	1.53	1.29	1.09
		L/200	11.72	7.47	5.31	4.01	3.12	2.49	2.02	1.66	1.37	1.14	0.97	0.82
	III	ULS	8.58	5.64	4.20	3.35	2.78	2.38	1.90	0.00	0.00	0.00	0.00	0.00
		L/100	23.43	14.94	10.63	8.00	6.23	4.98	4.03	3.31	2.74	2.30	1.94	1.65
		SLS L/150	15.63	9.96	7.08	5.33	4.16	3.32	2.69	2.21	1.83	1.53	1.29	1.09
		L/200	11.72	7.47	5.31	4.01	3.12	2.49	2.02	1.66	1.37	1.14	0.97	0.82

• **Maximum allowable wind suction [kN/m²] for the length of span made of Ruukki SP2D100W panels**

Table 19

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 40 mm
 Minimum intermediate support width: 60 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3 or 4

ULS – Ultimate Limit State
 SLS – Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS	8.58	5.64	4.20	3.35	2.78	2.38	2.08	1.85	1.66	1.37	1.16	0.99
		L/100	23.26	14.52	10.02	7.26	5.42	4.14	3.22	2.54	2.03	1.65	1.35	1.11
		SLS L/150	15.51	9.68	6.68	4.84	3.62	2.76	2.14	1.70	1.36	1.08	0.86	0.69
		L/200	11.63	7.27	5.01	3.63	2.71	2.07	1.61	1.21	0.93	0.72	0.55	0.39
	II	ULS	8.58	5.64	4.20	3.35	2.78	2.38	2.08	1.85	1.66	1.37	1.16	0.99
		L/100	23.26	14.52	10.02	7.26	5.42	4.14	3.22	2.54	2.03	1.65	1.35	1.09
		SLS L/150	15.51	9.68	6.68	4.84	3.62	2.76	2.14	1.64	1.26	0.97	0.76	0.56
		L/200	11.63	7.27	5.01	3.63	2.71	1.98	1.45	1.07	0.73	0.47	0.29	0.15
	III	ULS	8.58	5.64	4.20	3.35	2.78	2.38	2.08	1.85	1.66	1.37	1.16	0.99
		L/100	23.26	14.52	10.02	7.26	5.42	4.14	3.22	2.54	1.97	1.54	1.21	0.96
		SLS L/150	15.51	9.68	6.68	4.84	3.62	2.64	1.93	1.43	0.97	0.62	0.37	0.21
		L/200	11.63	7.27	5.01	3.53	2.44	1.69	1.00	0.53	0.22	0.01	0.00	0.00
Double-span system	I	ULS	7.48	4.67	3.35	2.61	2.14	1.82	1.59	1.33	0.95	0.72	0.55	0.44
		L/100	23.36	14.81	10.50	7.92	6.20	4.99	4.09	3.40	2.86	2.42	2.07	1.78
		SLS L/150	15.58	9.88	7.00	5.28	4.13	3.33	2.73	2.27	1.91	1.61	1.38	1.19
		L/200	11.68	7.41	5.25	3.95	3.10	2.49	2.04	1.70	1.43	1.21	1.04	0.89
	II	ULS	7.21	4.45	3.17	2.47	2.03	1.73	1.07	0.64	0.39	0.25	0.17	0.11
		L/100	23.36	14.81	10.50	7.92	6.20	4.99	4.09	3.40	2.86	2.42	2.07	1.78
		SLS L/150	15.58	9.88	7.00	5.28	4.13	3.33	2.73	2.27	1.91	1.61	1.38	1.19
		L/200	11.68	7.41	5.25	3.95	3.10	2.49	2.04	1.70	1.43	1.21	1.04	0.89
	III	ULS	6.80	4.12	2.91	2.26	1.29	0.19	0.00	0.00	0.00	0.00	0.00	0.00
		L/100	23.36	14.81	10.50	7.92	6.20	4.99	4.09	3.40	2.86	2.42	2.07	1.78
		SLS L/150	15.58	9.88	7.00	5.28	4.13	3.33	2.73	2.27	1.91	1.61	1.38	1.19
		L/200	11.68	7.41	5.25	3.95	3.10	2.49	2.04	1.70	1.43	1.21	1.04	0.89
Multi-span system	I	ULS	7.71	5.00	3.72	2.98	2.49	2.14	1.88	1.56	1.22	0.99	0.82	0.68
		L/100	23.43	14.94	10.62	8.00	6.24	4.97	4.03	3.31	2.75	2.30	1.94	1.64
		SLS L/150	15.63	9.95	7.08	5.33	4.16	3.32	2.69	2.21	1.83	1.53	1.29	1.09
		L/200	11.72	7.47	5.31	4.00	3.12	2.49	2.01	1.65	1.37	1.15	0.97	0.83
	II	ULS	7.49	4.85	3.61	2.89	2.43	2.02	1.36	0.97	0.72	0.56	0.45	0.36
		L/100	23.43	14.94	10.62	8.00	6.24	4.97	4.03	3.31	2.75	2.30	1.94	1.64
		SLS L/150	15.63	9.95	7.08	5.33	4.16	3.32	2.69	2.21	1.83	1.53	1.29	1.09
		L/200	11.72	7.47	5.31	4.00	3.12	2.49	2.01	1.65	1.37	1.15	0.97	0.83
	III	ULS	7.16	4.61	3.44	2.58	0.93	0.30	0.04	0.00	0.00	0.00	0.00	0.00
		L/100	23.43	14.94	10.62	8.00	6.24	4.97	4.03	3.31	2.75	2.30	1.94	1.64
		SLS L/150	15.63	9.95	7.08	5.33	4.16	3.32	2.69	2.21	1.83	1.53	1.29	1.09
		L/200	11.72	7.47	5.31	4.00	3.12	2.49	2.01	1.65	1.37	1.13	0.92	0.77

• **Maximum allowable wind pressure [kN/m²] for the length of span made of Ruukki SP2D120W panels**

Table 20

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 40 mm
 Minimum intermediate support width: 60 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3 or 4

ULS – Ultimate Limit State
 SLS – Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS	8.66	5.77	4.33	3.46	2.89	2.47	2.16	1.93	1.73	1.58	1.45	1.34
		L/100	28.15	17.77	12.40	9.11	6.90	5.34	4.20	3.35	2.71	2.21	1.82	1.51
		SLS L/150	18.77	11.85	8.26	6.08	4.60	3.56	2.80	2.23	1.80	1.47	1.19	0.95
		L/200	14.07	8.88	6.20	4.55	3.45	2.67	2.10	1.63	1.26	0.99	0.78	0.59
	II	ULS	8.66	5.77	4.33	3.46	2.89	2.47	2.16	1.93	1.73	1.58	1.44	1.34
		L/100	28.15	17.77	12.40	9.11	6.90	5.34	4.20	3.35	2.71	2.21	1.82	1.51
		SLS L/150	18.77	11.85	8.26	6.08	4.60	3.56	2.80	2.23	1.80	1.47	1.19	0.95
		L/200	14.07	8.88	6.20	4.55	3.45	2.67	2.10	1.63	1.26	0.99	0.78	0.59
	III	ULS	8.66	5.77	4.33	3.46	2.89	2.47	2.16	1.93	1.73	1.58	1.45	1.33
		L/100	28.15	17.77	12.40	9.11	6.90	5.34	4.20	3.35	2.71	2.21	1.82	1.51
		SLS L/150	18.77	11.85	8.26	6.08	4.60	3.56	2.80	2.23	1.80	1.47	1.19	0.95
		L/200	14.07	8.88	6.20	4.55	3.45	2.67	2.10	1.63	1.26	0.99	0.78	0.59
Double-span system	I	ULS	8.66	5.77	4.33	3.46	2.88	2.44	2.12	1.47	1.01	0.73	0.54	0.41
		L/100	28.25	18.03	12.86	9.76	7.69	6.23	5.14	4.30	3.64	3.11	2.67	2.31
		SLS L/150	18.84	12.02	8.57	6.50	5.13	4.15	3.42	2.87	2.43	2.07	1.78	1.54
		L/200	14.12	9.01	6.43	4.88	3.84	3.11	2.57	2.15	1.82	1.56	1.34	1.16
	II	ULS	8.66	5.77	4.33	3.46	2.88	2.44	2.12	1.47	1.01	0.73	0.54	0.41
		L/100	28.25	18.03	12.86	9.76	7.69	6.23	5.14	4.30	3.64	3.11	2.67	2.31
		SLS L/150	18.84	12.02	8.57	6.50	5.13	4.15	3.42	2.87	2.43	2.07	1.78	1.54
		L/200	14.12	9.01	6.43	4.88	3.84	3.11	2.57	2.15	1.82	1.56	1.34	1.16
	III	ULS	8.66	5.77	4.33	3.46	2.88	2.44	2.12	0.00	0.00	0.00	0.00	0.00
		L/100	28.25	18.03	12.86	9.76	7.69	6.23	5.14	4.30	3.64	3.11	2.67	2.31
		SLS L/150	18.84	12.02	8.57	6.50	5.13	4.15	3.42	2.87	2.43	2.07	1.78	1.54
		L/200	14.12	9.01	6.43	4.88	3.84	3.11	2.57	2.15	1.82	1.56	1.34	1.16
Multi-span system	I	ULS	8.66	5.77	4.33	3.46	2.89	2.47	2.17	1.77	1.35	1.06	0.85	0.71
		L/100	28.32	18.15	13.00	9.86	7.76	6.24	5.11	4.23	3.54	2.98	2.53	2.17
		SLS L/150	18.89	12.10	8.67	6.57	5.17	4.16	3.40	2.82	2.36	1.99	1.69	1.45
		L/200	14.16	9.08	6.50	4.93	3.87	3.12	2.55	2.11	1.76	1.49	1.27	1.09
	II	ULS	8.66	5.77	4.33	3.46	2.89	2.47	2.17	1.77	1.35	1.06	0.85	0.71
		L/100	28.32	18.15	13.00	9.86	7.76	6.24	5.11	4.23	3.54	2.98	2.53	2.17
		SLS L/150	18.89	12.10	8.67	6.57	5.17	4.16	3.40	2.82	2.36	1.99	1.69	1.45
		L/200	14.16	9.08	6.50	4.93	3.87	3.12	2.55	2.11	1.76	1.49	1.27	1.09
	III	ULS	8.66	5.77	4.33	3.46	2.89	2.47	2.17	1.77	0.00	0.00	0.00	0.00
		L/100	28.32	18.15	13.00	9.86	7.76	6.24	5.11	4.23	3.54	2.98	2.53	2.17
		SLS L/150	18.89	12.10	8.67	6.57	5.17	4.16	3.40	2.82	2.36	1.99	1.69	1.45
		L/200	14.16	9.08	6.50	4.93	3.87	3.12	2.55	2.11	1.76	1.49	1.27	1.09

● **Maximum allowable wind suction [kN/m²] for the length of span made of Ruukki SP2D120W panels**

Table 21

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 40 mm
 Minimum intermediate support width: 60 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3 or 4

ULS – Ultimate Limit State
 SLS – Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS	10.30	6.77	5.04	4.02	3.34	2.86	2.50	2.21	1.99	1.65	1.38	1.19
		L/100	28.15	17.77	12.40	9.10	6.90	5.34	4.20	3.35	2.71	2.21	1.82	1.51
		SLS L/150	18.77	11.85	8.27	6.07	4.60	3.56	2.80	2.23	1.80	1.48	1.21	1.00
		L/200	14.07	8.88	6.20	4.56	3.45	2.67	2.10	1.67	1.33	1.05	0.83	0.67
	II	ULS	10.30	6.77	5.04	4.02	3.34	2.86	2.50	2.21	1.99	1.65	1.38	1.19
		L/100	28.15	17.77	12.40	9.10	6.90	5.34	4.20	3.35	2.71	2.21	1.82	1.52
		SLS L/150	18.77	11.85	8.27	6.07	4.60	3.56	2.80	2.23	1.80	1.42	1.13	0.91
		L/200	14.07	8.88	6.20	4.56	3.45	2.67	2.04	1.56	1.19	0.93	0.65	0.45
	III	ULS	10.30	6.77	5.04	4.02	3.34	2.86	2.50	2.21	1.99	1.65	1.38	1.19
		L/100	28.15	17.77	12.40	9.10	6.90	5.34	4.20	3.35	2.71	2.21	1.77	1.43
		SLS L/150	18.77	11.85	8.27	6.07	4.60	3.56	2.73	2.07	1.59	1.23	0.87	0.60
		L/200	14.07	8.88	6.20	4.55	3.35	2.44	1.79	1.20	0.75	0.42	0.20	0.04
Double-span system	I	ULS	7.58	4.73	3.37	2.62	2.14	1.82	1.57	1.39	1.26	0.94	0.72	0.57
		L/100	28.25	18.03	12.86	9.75	7.69	6.23	5.14	4.30	3.64	3.11	2.68	2.32
		SLS L/150	18.84	12.02	8.57	6.50	5.13	4.15	3.43	2.87	2.43	2.07	1.78	1.54
		L/200	14.12	9.01	6.43	4.88	3.85	3.12	2.57	2.15	1.82	1.55	1.34	1.15
	II	ULS	7.30	4.49	3.19	2.47	2.00	1.70	1.49	0.96	0.60	0.39	0.26	0.18
		L/100	28.25	18.03	12.86	9.75	7.69	6.23	5.14	4.30	3.64	3.11	2.68	2.32
		SLS L/150	18.84	12.02	8.57	6.50	5.13	4.15	3.43	2.87	2.43	2.07	1.78	1.54
		L/200	14.12	9.01	6.43	4.88	3.85	3.12	2.57	2.15	1.82	1.55	1.34	1.15
	III	ULS	6.88	4.14	2.90	2.21	1.81	0.73	0.01	0.00	0.00	0.00	0.00	0.00
		L/100	28.25	18.03	12.86	9.75	7.69	6.23	5.14	4.30	3.64	3.11	2.68	2.32
		SLS L/150	18.84	12.02	8.57	6.50	5.13	4.15	3.43	2.87	2.43	2.07	1.78	1.54
		L/200	14.12	9.01	6.43	4.88	3.85	3.12	2.57	2.15	1.82	1.55	1.34	1.15
Multi-span system	I	ULS	7.78	5.00	3.69	2.95	2.46	2.12	1.85	1.67	1.50	1.21	1.00	0.84
		L/100	28.32	18.15	12.99	9.87	7.76	6.24	5.11	4.23	3.54	2.98	2.54	2.17
		SLS L/150	18.89	12.10	8.66	6.57	5.17	4.16	3.40	2.82	2.36	1.99	1.69	1.44
		L/200	14.16	9.08	6.50	4.93	3.88	3.12	2.56	2.11	1.76	1.49	1.26	1.08
	II	ULS	7.54	4.80	3.56	2.86	2.39	2.07	1.77	1.25	0.93	0.71	0.56	0.46
		L/100	28.32	18.15	12.99	9.87	7.76	6.24	5.11	4.23	3.54	2.98	2.54	2.17
		SLS L/150	18.89	12.10	8.66	6.57	5.17	4.16	3.40	2.82	2.36	1.99	1.69	1.44
		L/200	14.16	9.08	6.50	4.93	3.88	3.12	2.56	2.11	1.76	1.49	1.26	1.08
	III	ULS	7.11	4.54	3.38	2.71	1.59	0.61	0.19	0.01	0.00	0.00	0.00	0.00
		L/100	28.32	18.15	12.99	9.87	7.76	6.24	5.11	4.23	3.54	2.98	2.54	2.17
		SLS L/150	18.89	12.10	8.66	6.57	5.17	4.16	3.40	2.82	2.36	1.99	1.69	1.44
		L/200	14.16	9.08	6.50	4.93	3.88	3.12	2.56	2.11	1.76	1.49	1.27	1.07

• **Maximum allowable wind pressure [kN/m²] for the length of span made of Ruukki SP2D140W panels**

Table 22

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 40 mm
 Minimum intermediate support width: 60 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3 or 4

ULS – Ultimate Limit State
 SLS – Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS	8.66	5.77	4.33	3.46	2.89	2.47	2.16	1.93	1.73	1.57	1.44	1.33
		L/100	33.01	20.92	14.67	10.83	8.25	6.42	5.08	4.07	3.30	2.70	2.24	1.86
		SLS L/150	22.02	13.95	9.78	7.22	5.50	4.28	3.38	2.71	2.20	1.80	1.49	1.24
		L/200	16.51	10.46	7.34	5.41	4.12	3.21	2.54	2.04	1.64	1.29	1.03	0.83
		ULS	8.66	5.77	4.33	3.46	2.89	2.47	2.16	1.93	1.73	1.57	1.44	1.33
		L/100	33.01	20.92	14.67	10.83	8.25	6.42	5.08	4.07	3.30	2.70	2.24	1.86
	II	SLS L/150	22.02	13.95	9.78	7.22	5.50	4.28	3.38	2.71	2.20	1.80	1.49	1.24
		L/200	16.51	10.46	7.34	5.41	4.12	3.21	2.54	2.04	1.64	1.29	1.03	0.83
		ULS	8.66	5.77	4.33	3.46	2.89	2.47	2.16	1.93	1.73	1.57	1.44	1.33
		L/100	33.01	20.92	14.67	10.83	8.25	6.42	5.08	4.07	3.30	2.70	2.24	1.86
		SLS L/150	22.02	13.95	9.78	7.22	5.50	4.28	3.38	2.71	2.20	1.80	1.49	1.24
		L/200	16.51	10.46	7.34	5.41	4.12	3.21	2.54	2.04	1.64	1.29	1.03	0.83
III	ULS	8.66	5.77	4.33	3.46	2.89	2.47	2.16	1.93	1.73	1.57	1.44	1.33	
	L/100	33.01	20.92	14.67	10.83	8.25	6.42	5.08	4.07	3.30	2.70	2.24	1.86	
	SLS L/150	22.02	13.95	9.78	7.22	5.50	4.28	3.38	2.71	2.20	1.80	1.49	1.24	
	L/200	16.51	10.46	7.34	5.41	4.12	3.21	2.54	2.04	1.64	1.29	1.03	0.83	
	ULS	8.66	5.77	4.33	3.46	2.88	2.44	2.12	1.86	1.48	1.09	0.82	0.64	
	L/100	33.14	21.19	15.16	11.52	9.11	7.39	6.12	5.13	4.36	3.73	3.22	2.80	
Double-span system	I	SLS L/150	22.07	14.13	10.10	7.68	6.07	4.93	4.08	3.42	2.91	2.49	2.15	1.86
		L/200	16.57	10.60	7.58	5.76	4.55	3.70	3.06	2.57	2.17	1.87	1.61	1.39
		ULS	8.66	5.77	4.33	3.46	2.88	2.44	2.12	1.86	1.48	1.09	0.82	0.64
	II	L/100	33.14	21.19	15.16	11.52	9.11	7.39	6.12	5.13	4.36	3.73	3.22	2.80
		SLS L/150	22.07	14.13	10.10	7.68	6.07	4.93	4.08	3.42	2.91	2.49	2.15	1.86
		L/200	16.57	10.60	7.58	5.76	4.55	3.70	3.06	2.57	2.17	1.87	1.61	1.39
III	ULS	8.66	5.77	4.33	3.46	2.88	2.44	2.11	1.87	0.00	0.00	0.00	0.00	
	L/100	33.14	21.19	15.16	11.52	9.11	7.39	6.12	5.13	4.36	3.73	3.22	2.80	
	SLS L/150	22.07	14.13	10.10	7.68	6.07	4.93	4.08	3.42	2.91	2.49	2.15	1.86	
Multi-span system	I	L/200	16.57	10.60	7.58	5.76	4.55	3.70	3.06	2.57	2.17	1.87	1.61	1.39
		ULS	8.66	5.77	4.33	3.46	2.89	2.47	2.17	1.93	1.73	1.43	1.18	0.97
		L/100	33.19	21.32	15.31	11.65	9.19	7.42	6.09	5.06	4.25	3.60	3.07	2.63
		SLS L/150	22.12	14.21	10.20	7.77	6.13	4.95	4.06	3.38	2.83	2.40	2.04	1.76
	II	L/200	16.60	10.66	7.65	5.83	4.59	3.71	3.05	2.53	2.13	1.80	1.54	1.32
		ULS	8.66	5.77	4.33	3.46	2.89	2.47	2.17	1.93	1.73	1.43	1.18	0.97
		L/100	33.19	21.32	15.31	11.65	9.19	7.42	6.09	5.06	4.25	3.60	3.07	2.63
		SLS L/150	22.12	14.21	10.20	7.77	6.13	4.95	4.06	3.38	2.83	2.40	2.04	1.76
	III	L/200	16.60	10.66	7.65	5.83	4.59	3.71	3.05	2.53	2.13	1.80	1.54	1.32
		ULS	8.66	5.77	4.33	3.46	2.89	2.47	2.17	1.92	1.73	1.43	1.18	0.97
		L/100	33.19	21.32	15.31	11.65	9.19	7.42	6.09	5.06	4.25	3.60	3.07	2.63
		SLS L/150	22.12	14.21	10.20	7.77	6.13	4.95	4.06	3.38	2.83	2.40	2.04	1.76
		L/200	16.60	10.66	7.65	5.83	4.59	3.71	3.05	2.53	2.13	1.80	1.54	1.32

• **Maximum allowable wind suction [kN/m²] for the length of span made of Ruukki SP2D140W panels**

Table 23

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 40 mm
 Minimum intermediate support width: 60 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3 or 4

ULS – Ultimate Limit State
 SLS – Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS	12.03	7.91	5.89	4.70	3.90	3.34	2.92	2.60	2.33	1.94	1.62	1.38
		L/100	33.01	20.92	14.67	10.83	8.25	6.41	5.07	4.06	3.30	2.70	2.24	1.86
		SLS L/150	22.01	13.95	9.78	7.22	5.50	4.28	3.38	2.71	2.20	1.81	1.49	1.25
		L/200	16.50	10.46	7.34	5.41	4.12	3.21	2.54	2.03	1.65	1.35	1.09	0.88
	II	ULS	12.03	7.91	5.89	4.70	3.90	3.34	2.92	2.60	2.33	1.94	1.62	1.38
		L/100	33.01	20.92	14.67	10.83	8.25	6.41	5.07	4.06	3.30	2.70	2.24	1.87
		SLS L/150	22.01	13.95	9.78	7.22	5.50	4.28	3.38	2.71	2.20	1.80	1.48	1.20
		L/200	16.50	10.46	7.34	5.41	4.12	3.21	2.54	2.00	1.56	1.23	0.97	0.77
	III	ULS	12.03	7.91	5.89	4.70	3.90	3.34	2.92	2.60	2.33	1.94	1.62	1.38
		L/100	33.01	20.92	14.67	10.83	8.25	6.41	5.07	4.06	3.30	2.70	2.23	1.86
		SLS L/150	22.01	13.95	9.78	7.22	5.50	4.28	3.38	2.67	2.08	1.64	1.30	1.04
		L/200	16.50	10.46	7.34	5.41	4.12	3.12	2.34	1.77	1.31	0.88	0.56	0.34
Double-span system	I	ULS	7.59	4.73	3.37	2.61	2.13	1.81	1.58	1.38	1.25	1.14	1.02	0.81
		L/100	33.14	21.19	15.15	11.52	9.10	7.39	6.11	5.13	4.36	3.73	3.22	2.79
		SLS L/150	22.07	14.12	10.11	7.68	6.07	4.93	4.07	3.42	2.91	2.49	2.14	1.86
		L/200	16.57	10.60	7.58	5.76	4.55	3.69	3.06	2.56	2.19	1.87	1.61	1.40
	II	ULS	7.31	4.49	3.17	2.45	2.00	1.68	1.47	1.32	1.03	0.72	0.51	0.38
		L/100	33.14	21.19	15.15	11.52	9.10	7.39	6.11	5.13	4.36	3.73	3.22	2.79
		SLS L/150	22.07	14.12	10.11	7.68	6.07	4.93	4.07	3.42	2.91	2.49	2.14	1.86
		L/200	16.57	10.60	7.58	5.76	4.55	3.69	3.06	2.56	2.19	1.87	1.61	1.40
	III	ULS	6.88	4.13	2.88	2.21	1.78	1.53	0.72	0.19	0.00	0.00	0.00	0.00
		L/100	33.14	21.19	15.15	11.52	9.10	7.39	6.11	5.13	4.36	3.73	3.22	2.79
		SLS L/150	22.07	14.12	10.11	7.68	6.07	4.93	4.07	3.42	2.91	2.49	2.14	1.86
		L/200	16.57	10.60	7.58	5.76	4.55	3.69	3.06	2.56	2.19	1.87	1.61	1.40
Multi-span system	I	ULS	7.78	5.02	3.72	2.97	2.48	2.13	1.85	1.65	1.50	1.37	1.23	1.03
		L/100	33.19	21.32	15.31	11.65	9.19	7.42	6.09	5.07	4.25	3.60	3.06	2.63
		SLS L/150	22.12	14.22	10.21	7.77	6.12	4.95	4.06	3.37	2.83	2.40	2.05	1.75
		L/200	16.59	10.66	7.65	5.83	4.59	3.71	3.05	2.53	2.13	1.80	1.54	1.32
	II	ULS	7.54	4.84	3.59	2.87	2.38	2.05	1.81	1.61	1.38	1.07	0.85	0.70
		L/100	33.19	21.32	15.31	11.65	9.19	7.42	6.09	5.07	4.25	3.60	3.06	2.63
		SLS L/150	22.12	14.22	10.21	7.77	6.12	4.95	4.06	3.37	2.83	2.40	2.05	1.75
		L/200	16.59	10.66	7.65	5.83	4.59	3.71	3.05	2.53	2.13	1.80	1.54	1.32
	III	ULS	7.17	4.57	3.39	2.69	2.26	1.57	0.85	0.48	0.28	0.17	0.10	0.06
		L/100	33.19	21.32	15.31	11.65	9.19	7.42	6.09	5.07	4.25	3.60	3.06	2.63
		SLS L/150	22.12	14.22	10.21	7.77	6.12	4.95	4.06	3.37	2.83	2.40	2.05	1.75
		L/200	16.59	10.66	7.65	5.83	4.59	3.71	3.05	2.53	2.13	1.80	1.54	1.32

• **Maximum allowable wind pressure [kN/m²] for the length of span made of Ruukki SP2D160W panels**

Table 24

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 40 mm
 Minimum intermediate support width: 60 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3 or 4

ULS – Ultimate Limit State
 SLS – Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS	7.79	5.20	3.89	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20
		L/100	37.98	24.21	17.11	12.73	9.78	7.67	6.12	4.94	4.03	3.32	2.76	2.32
		SLS L/150	25.33	16.14	11.40	8.49	6.52	5.11	4.08	3.29	2.69	2.21	1.84	1.55
		L/200	19.00	12.10	8.55	6.36	4.89	3.84	3.06	2.47	2.01	1.66	1.34	1.09
	II	ULS	7.79	5.20	3.89	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20
		L/100	37.98	24.21	17.11	12.73	9.78	7.67	6.12	4.94	4.03	3.32	2.76	2.32
		SLS L/150	25.33	16.14	11.40	8.49	6.52	5.11	4.08	3.29	2.69	2.21	1.84	1.55
		L/200	19.00	12.10	8.55	6.36	4.89	3.84	3.06	2.47	2.01	1.66	1.34	1.09
	III	ULS	7.79	5.20	3.89	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20
		L/100	37.98	24.21	17.11	12.73	9.78	7.67	6.12	4.94	4.03	3.32	2.76	2.32
		SLS L/150	25.33	16.14	11.40	8.49	6.52	5.11	4.08	3.29	2.69	2.21	1.84	1.55
		L/200	19.00	12.10	8.55	6.36	4.89	3.84	3.06	2.47	2.01	1.66	1.35	1.09
Double-span system	I	ULS	7.79	5.20	3.90	3.12	2.55	2.16	1.87	1.65	1.49	1.35	1.03	0.80
		L/100	38.07	24.47	17.56	13.40	10.64	8.67	7.20	6.07	5.17	4.45	3.86	3.36
		SLS L/150	25.38	16.31	11.70	8.93	7.09	5.78	4.80	4.05	3.45	2.97	2.57	2.24
		L/200	19.04	12.23	8.78	6.70	5.32	4.33	3.60	3.04	2.58	2.22	1.92	1.68
	II	ULS	7.79	5.20	3.90	3.12	2.55	2.16	1.87	1.65	1.49	1.35	1.03	0.80
		L/100	38.07	24.47	17.56	13.40	10.64	8.67	7.20	6.07	5.17	4.45	3.86	3.36
		SLS L/150	25.38	16.31	11.70	8.93	7.09	5.78	4.80	4.05	3.45	2.97	2.57	2.24
		L/200	19.04	12.23	8.78	6.70	5.32	4.33	3.60	3.04	2.58	2.22	1.92	1.68
	III	ULS	7.79	5.20	3.90	3.12	2.55	2.16	1.87	1.65	1.49	0.00	0.00	0.00
		L/100	38.07	24.47	17.56	13.40	10.64	8.67	7.20	6.07	5.17	4.45	3.86	3.36
		SLS L/150	25.38	16.31	11.70	8.93	7.09	5.78	4.80	4.05	3.45	2.97	2.57	2.24
		L/200	19.04	12.23	8.78	6.70	5.32	4.33	3.60	3.04	2.58	2.22	1.92	1.68
Multi-span system	I	ULS	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.41	1.30	1.14
		L/100	38.15	24.59	17.73	13.56	10.75	8.72	7.20	6.02	5.09	4.33	3.71	3.20
		SLS L/150	25.43	16.40	11.82	9.04	7.16	5.82	4.81	4.02	3.39	2.89	2.47	2.13
		L/200	19.07	12.29	8.86	6.77	5.38	4.36	3.60	3.01	2.55	2.16	1.86	1.60
	II	ULS	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.41	1.30	1.14
		L/100	38.15	24.59	17.73	13.56	10.75	8.72	7.20	6.02	5.09	4.33	3.71	3.20
		SLS L/150	25.43	16.40	11.82	9.04	7.16	5.82	4.81	4.02	3.39	2.89	2.47	2.13
		L/200	19.07	12.29	8.86	6.77	5.38	4.36	3.60	3.01	2.55	2.16	1.86	1.60
	III	ULS	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.15
		L/100	38.15	24.59	17.73	13.56	10.75	8.72	7.20	6.02	5.09	4.33	3.71	3.20
		SLS L/150	25.43	16.40	11.82	9.04	7.16	5.82	4.81	4.02	3.39	2.89	2.47	2.13
		L/200	19.07	12.29	8.86	6.77	5.38	4.36	3.60	3.01	2.55	2.16	1.86	1.60

• **Maximum allowable wind suction [kN/m²] for the length of span made of Ruukki SP2D160W panels**

Table 25

External facing thickness: 0.60 mm
 Internal facing thickness: 0.50 mm
 External temperature: +55°C; +65°C; +80°C/-20°C (summer/winter)
 Internal temperature: +20°C/+20°C (summer/winter)
 Minimum end support width: 40 mm
 Minimum intermediate support width: 60 mm
 Minimum number of fasteners at the end support: 2 or 3
 Minimum number of fasteners at the intermediate support: 3 or 4

ULS – Ultimate Limit State
 SLS – Serviceability Limit State

Static scheme	Colour group	Criterion	Span length [m]											
			1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single-span system	I	ULS	13.77	9.06	6.75	5.38	4.47	3.82	3.34	2.96	2.66	2.21	1.86	1.59
		L/100	37.98	24.21	17.10	12.74	9.78	7.67	6.11	4.94	4.03	3.32	2.76	2.32
		SLS L/150	25.32	16.14	11.40	8.49	6.52	5.11	4.07	3.29	2.69	2.22	1.85	1.55
		L/200	19.00	12.10	8.55	6.36	4.89	3.83	3.06	2.47	2.02	1.67	1.39	1.15
	II	ULS	13.77	9.06	6.75	5.38	4.47	3.82	3.34	2.96	2.66	2.21	1.86	1.59
		L/100	37.98	24.21	17.10	12.74	9.78	7.67	6.11	4.94	4.03	3.32	2.76	2.32
		SLS L/150	25.32	16.14	11.40	8.49	6.52	5.11	4.07	3.29	2.69	2.21	1.85	1.55
		L/200	19.00	12.10	8.55	6.36	4.89	3.83	3.06	2.47	2.00	1.60	1.28	1.04
	III	ULS	13.77	9.06	6.75	5.38	4.47	3.82	3.34	2.96	2.66	2.21	1.86	1.59
		L/100	37.98	24.21	17.10	12.74	9.78	7.67	6.11	4.94	4.03	3.32	2.77	2.32
		SLS L/150	25.32	16.14	11.40	8.49	6.52	5.11	4.07	3.29	2.68	2.14	1.71	1.38
		L/200	19.00	12.10	8.55	6.36	4.88	3.83	2.97	2.29	1.78	1.39	1.00	0.69
Double-span system	I	ULS	7.59	4.73	3.36	2.59	2.12	1.79	1.56	1.37	1.23	1.12	1.04	0.96
		L/100	38.07	24.47	17.56	13.40	10.64	8.67	7.20	6.07	5.17	4.45	3.86	3.36
		SLS L/150	25.38	16.30	11.70	8.94	7.09	5.78	4.80	4.05	3.45	2.97	2.57	2.24
		L/200	19.04	12.22	8.78	6.70	5.32	4.33	3.60	3.03	2.59	2.23	1.93	1.68
	II	ULS	7.31	4.48	3.15	2.42	1.98	1.66	1.44	1.28	1.16	0.94	0.67	0.50
		L/100	38.07	24.47	17.56	13.40	10.64	8.67	7.20	6.07	5.17	4.45	3.86	3.36
		SLS L/150	25.38	16.30	11.70	8.94	7.09	5.78	4.80	4.05	3.45	2.97	2.57	2.24
		L/200	19.04	12.22	8.78	6.70	5.32	4.33	3.60	3.03	2.59	2.23	1.93	1.68
	III	ULS	6.87	4.11	2.85	2.17	1.74	1.48	1.21	0.47	0.10	0.00	0.00	0.00
		L/100	38.07	24.47	17.56	13.40	10.64	8.67	7.20	6.07	5.17	4.45	3.86	3.36
		SLS L/150	25.38	16.30	11.70	8.94	7.09	5.78	4.80	4.05	3.45	2.97	2.57	2.24
		L/200	19.04	12.22	8.78	6.70	5.32	4.33	3.60	3.03	2.59	2.23	1.93	1.68
Multi-span system	I	ULS	7.77	5.00	3.69	2.94	2.46	2.11	1.86	1.64	1.48	1.36	1.25	1.16
		L/100	38.15	24.58	17.71	13.56	10.75	8.73	7.20	6.02	5.09	4.33	3.71	3.20
		SLS L/150	25.43	16.39	11.81	9.03	7.16	5.81	4.80	4.01	3.39	2.89	2.47	2.14
		L/200	19.06	12.29	8.86	6.78	5.38	4.36	3.60	3.01	2.55	2.16	1.86	1.60
	II	ULS	7.52	4.81	3.55	2.83	2.37	2.02	1.79	1.60	1.45	1.29	1.03	0.84
		L/100	38.15	24.58	17.71	13.56	10.75	8.73	7.20	6.02	5.09	4.33	3.71	3.20
		SLS L/150	25.43	16.39	11.81	9.03	7.16	5.81	4.80	4.01	3.39	2.89	2.47	2.14
		L/200	19.06	12.29	8.86	6.78	5.38	4.36	3.60	3.01	2.55	2.16	1.86	1.60
	III	ULS	7.15	4.52	3.34	2.64	2.22	1.92	1.19	0.70	0.42	0.26	0.16	0.10
		L/100	38.15	24.58	17.71	13.56	10.75	8.73	7.20	6.02	5.09	4.33	3.71	3.20
		SLS L/150	25.43	16.39	11.81	9.03	7.16	5.81	4.80	4.01	3.39	2.89	2.47	2.14
		L/200	19.06	12.29	8.86	6.78	5.38	4.36	3.60	3.01	2.55	2.16	1.85	1.60

● Notes

Lined area for notes with horizontal yellow lines.

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