

Sandwich panels

Span tables for sandwich panels

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

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

Product application

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

Ruukki is a metal expert you can rely on all the way, whenever you need metal based materials, components, systems or total solutions. We constantly develop our product range and operating models to match your needs.

● Contents

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

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

Table 1

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

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

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

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

Table 2

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

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

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

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

Table 3

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

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

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

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

Table 4

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

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

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

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

Table 5

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

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

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

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

Table 6

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

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

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

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

Table 7

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

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

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

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

Table 8

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

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

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

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

Table 9

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

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

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

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

Table 10

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

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

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

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

Table 11

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

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

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

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

Table 12

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

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

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

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

Table 13

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

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

Static scheme	Colour group	Criterion	Characteristic load [kN/m ²]													
			-1.2	-1.0	-0.8	-0.6	-0.4	0.6	0.8	1.0	1.3	1.6	2.0	2.2	2.6	3.4
Single-span system	I	ULS 1/0	1.99	2.41	3.06	4.20	6.35	3.85	3.24	2.80	2.35	2.04	1.51	1.29	1.02	0.74
		ULS 2/0	3.18	3.57	4.11	4.92	6.35	3.85	3.24	2.80	2.35	2.04	1.51	1.29	1.02	0.74
		L/100	4.07	4.40	4.84	5.50	6.61	4.37	3.91	3.58	3.21	2.93	2.67	2.55	2.38	2.11
		SLS L/150	3.45	3.75	4.10	4.60	5.17	3.65	3.26	2.98	2.66	2.44	2.21	2.13	1.97	1.77
		L/200	3.04	3.27	3.57	3.99	4.24	3.21	2.86	2.61	2.34	2.14	1.94	1.87	1.75	1.57
		ULS 1/0	1.99	2.41	3.06	4.20	6.35	3.85	3.24	2.80	2.35	2.04	1.51	1.29	1.02	0.74
	II	ULS 2/0	3.18	3.57	4.11	4.92	6.35	3.85	3.24	2.80	2.35	2.04	1.51	1.29	1.02	0.74
		L/100	4.07	4.39	4.78	5.35	6.32	4.37	3.91	3.58	3.21	2.93	2.67	2.55	2.38	2.11
		SLS L/150	3.37	3.62	3.93	4.39	5.01	3.65	3.26	2.98	2.66	2.44	2.21	2.13	1.97	1.77
		L/200	2.92	3.13	3.40	3.66	4.06	3.21	2.86	2.61	2.34	2.14	1.94	1.87	1.75	1.57
		ULS 1/0	1.99	2.41	3.06	4.20	6.35	3.85	3.24	2.80	2.35	2.04	1.51	1.29	1.02	0.74
		ULS 2/0	3.18	3.57	4.11	4.92	6.35	3.85	3.24	2.80	2.35	2.04	1.51	1.29	1.02	0.74
III	L/100	3.93	4.20	4.56	5.05	5.67	4.37	3.91	3.58	3.21	2.93	2.67	2.55	2.38	2.11	
	SLS L/150	3.20	3.39	3.58	3.83	4.17	3.65	3.26	2.98	2.66	2.44	2.21	2.13	1.97	1.77	
	L/200	2.71	2.82	2.96	3.12	3.34	3.21	2.86	2.61	2.34	2.14	1.94	1.87	1.75	1.57	
	ULS 1/2	1.37	1.69	2.20	3.16	5.37	3.85	3.24	2.80	2.35	2.02	1.50	1.28	1.01	0.73	
	ULS 1/3	1.79	2.25	3.04	4.20	6.07	3.85	3.24	2.80	2.35	2.02	1.50	1.28	1.01	0.73	
	ULS 2/3	2.34	2.88	3.65	4.47	6.08	3.85	3.24	2.80	2.35	2.02	1.50	1.28	1.01	0.73	
Double-span system	I	L/100	5.29	5.74	6.34	7.22	8.75	5.62	5.02	4.59	4.11	3.77	3.43	3.29	3.07	2.74
		SLS L/150	4.46	4.86	5.38	6.17	7.52	4.69	4.18	3.82	3.43	3.15	2.87	2.76	2.58	2.31
		L/200	3.94	4.30	4.78	5.50	6.73	4.11	3.67	3.36	3.02	2.78	2.54	2.45	2.29	2.05
		ULS 1/2	1.26	1.53	2.00	2.93	5.15	3.85	3.24	2.80	2.35	2.02	1.50	1.28	1.01	0.73
		ULS 1/3	1.79	2.25	3.04	4.19	5.78	3.85	3.24	2.80	2.35	2.02	1.50	1.28	1.01	0.73
		ULS 2/3	2.21	2.75	3.40	4.18	5.78	3.85	3.24	2.80	2.35	2.02	1.50	1.28	1.01	0.73
	II	L/100	5.29	5.74	6.34	7.22	8.75	5.62	5.02	4.59	4.11	3.77	3.43	3.29	3.07	2.74
		SLS L/150	4.46	4.86	5.38	6.17	7.52	4.69	4.18	3.82	3.43	3.15	2.87	2.76	2.58	2.31
		L/200	3.94	4.30	4.78	5.50	6.73	4.11	3.67	3.36	3.02	2.78	2.54	2.45	2.29	2.05
		ULS 1/3	1.79	2.25	3.02	3.67	5.02	3.85	3.24	2.80	2.35	2.02	1.50	1.28	1.01	0.73
		ULS 2/3	2.03	2.54	3.02	3.67	5.02	3.85	3.24	2.80	2.35	2.02	1.50	1.28	1.01	0.73
		L/100	5.29	5.74	6.34	7.22	8.75	5.62	5.02	4.59	4.11	3.77	3.43	3.29	3.07	2.74
III	SLS L/150	4.46	4.86	5.38	6.17	7.52	4.69	4.18	3.82	3.43	3.15	2.87	2.76	2.58	2.31	
	L/200	3.94	4.30	4.78	5.49	6.63	4.11	3.67	3.36	3.02	2.78	2.54	2.45	2.29	2.05	
	ULS 1/2	1.68	2.18	2.86	4.01	6.35	3.85	3.24	2.80	2.35	2.04	1.50	1.28	1.01	0.73	
	ULS 2/2	1.78	2.20	2.86	4.01	6.35	3.85	3.24	2.80	2.35	2.04	1.50	1.28	1.01	0.73	
	ULS 2/3	2.86	3.50	4.11	4.92	6.35	3.85	3.24	2.80	2.35	2.04	1.50	1.28	1.01	0.73	
	L/100	4.99	5.40	5.95	6.77	8.18	5.36	4.80	4.40	3.95	3.62	3.29	3.17	2.95	2.63	
Multi-span system	I	SLS L/150	4.23	4.60	5.08	5.80	7.04	4.49	4.02	3.67	3.30	3.03	2.75	2.65	2.47	2.21
		L/200	3.75	4.08	4.53	5.18	6.31	3.95	3.53	3.23	2.90	2.66	2.43	2.34	2.18	1.95
		ULS 1/2	1.68	2.12	2.78	3.93	6.19	3.85	3.24	2.80	2.35	2.04	1.50	1.28	1.01	0.73
		ULS 2/2	1.71	2.13	2.77	3.93	6.19	3.85	3.24	2.80	2.35	2.04	1.50	1.28	1.01	0.73
		ULS 2/3	2.81	3.45	4.00	4.79	6.19	3.85	3.24	2.80	2.35	2.04	1.50	1.28	1.01	0.73
		L/100	4.99	5.40	5.95	6.77	8.18	5.36	4.80	4.40	3.95	3.62	3.29	3.17	2.95	2.63
	II	SLS L/150	4.23	4.60	5.08	5.80	7.04	4.49	4.02	3.67	3.30	3.03	2.75	2.65	2.47	2.21
		L/200	3.75	4.08	4.53	5.18	6.25	3.95	3.53	3.23	2.90	2.66	2.43	2.34	2.18	1.95
		ULS 1/2	1.60	2.00	2.65	3.80	5.94	3.85	3.24	2.80	2.35	2.04	1.50	1.28	1.01	0.73
		ULS 2/2	1.60	2.00	2.65	3.80	5.94	3.85	3.24	2.80	2.35	2.04	1.50	1.28	1.01	0.73
		ULS 2/3	2.72	3.23	3.78	4.60	5.95	3.85	3.24	2.80	2.35	2.04	1.50	1.28	1.01	0.73
		L/100	4.99	5.40	5.95	6.77	8.18	5.36	4.80	4.40	3.95	3.62	3.29	3.17	2.95	2.63
III	SLS L/150	4.23	4.60	5.08	5.74	6.83	4.49	4.02	3.67	3.30	3.03	2.75	2.65	2.47	2.21	
	L/200	3.75	4.04	4.42	4.98	5.90	3.95	3.53	3.23	2.90	2.66	2.43	2.34	2.18	1.95	

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

Table 14

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

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

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

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

Table 15

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

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

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

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

Table 16

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

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

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

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