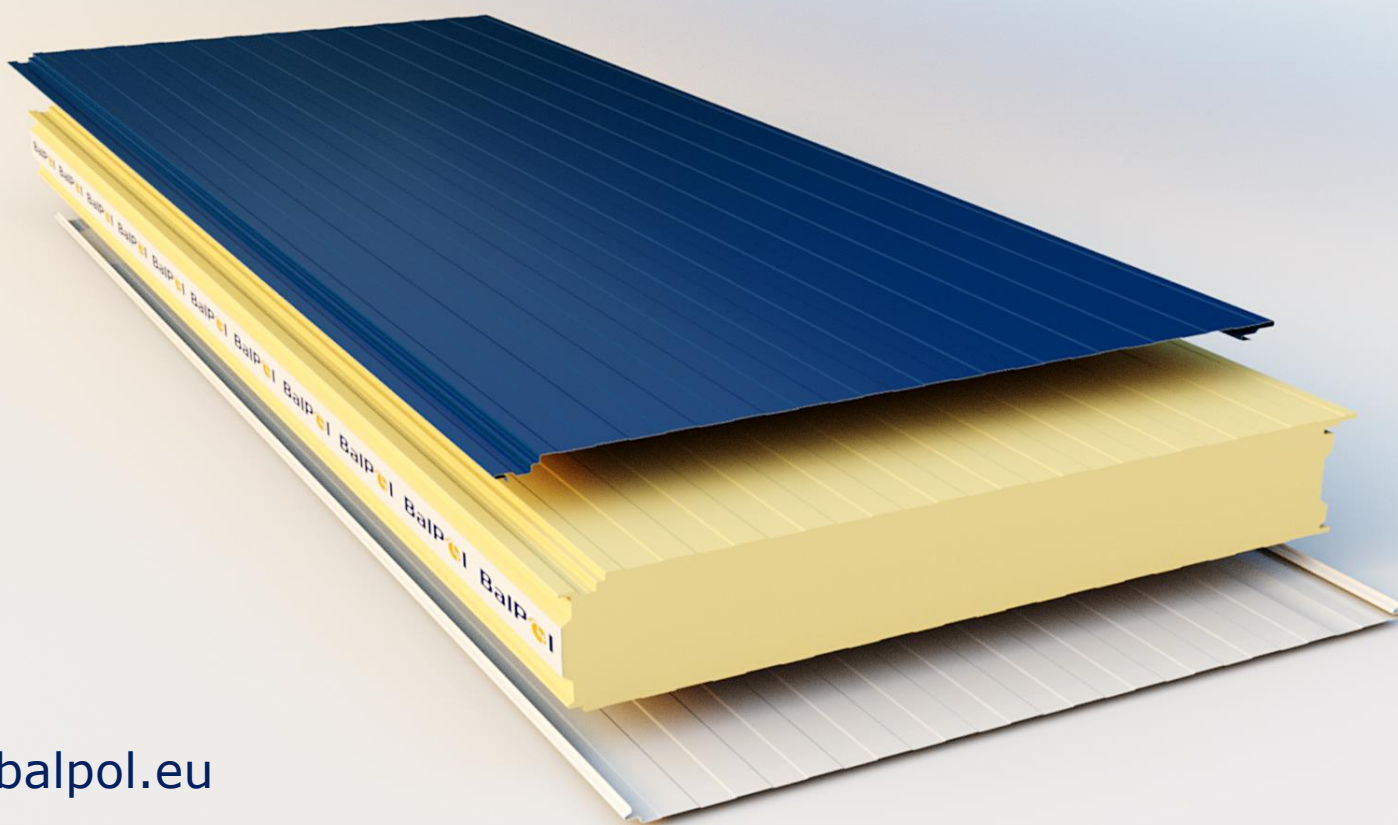


BALPOL MULTI-LAYER SANDWICH PANELS

POLYISOCYANURATE CORE

LOAD SPAN TABLES



Maximum allowable wind pressure/suction [kN/m²] for the length of span made of Balpol **50mm** thickness panels (Standard wall PIR panel, wall PIR panel with thermo lock, wall PIR panel with hidden fastening).

Single span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m ²] at the given span (m)													
	ULS – Ultimate Limit State	SLS – Serviceability Limit State	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5		
50	I	ULS	Pressure	2,42	1,94	1,54	1,15	0,86	0,63	0,45	0,32	-	-	-	-	
			Suction	2,42	1,94	1,62	1,24	0,93	0,70	0,52	0,41	0,32	-	-	-	
		L/100	Pressure	3,70	2,49	1,73	1,23	0,87	0,63	0,45	0,32	-	-	-	-	
			Suction	3,70	2,49	1,73	1,24	0,92	0,70	0,52	0,41	0,32	-	-	-	
		SLS	L/150	Pressure	2,46	1,61	1,04	0,67	0,38	-	-	-	-	-	-	-
				Suction	2,46	1,66	1,15	0,79	0,55	0,39	0,25	-	-	-	-	-
		L/200	Pressure	1,74	1,05	0,53	-	-	-	-	-	-	-	-	-	
			Suction	1,85	1,20	0,78	0,50	0,28	-	-	-	-	-	-	-	
		II	ULS	Pressure	2,42	1,94	1,54	1,15	0,86	0,63	0,45	0,32	-	-	-	-
				Suction	2,42	1,94	1,62	1,24	0,93	0,70	0,52	0,41	0,32	-	-	-
			L/100	Pressure	3,70	2,49	1,73	1,23	0,87	0,63	0,45	0,32	-	-	-	-
				Suction	3,70	2,49	1,73	1,24	0,92	0,70	0,52	0,41	0,32	-	-	-
	SLS		L/150	Pressure	2,46	1,61	1,04	0,67	0,38	-	-	-	-	-	-	-
				Suction	2,46	1,61	1,04	0,67	0,38	-	-	-	-	-	-	-
	L/200		Pressure	1,74	1,05	0,53	-	-	-	-	-	-	-	-	-	
			Suction	1,74	1,05	0,53	-	-	-	-	-	-	-	-	-	
	III		ULS	Pressure	2,42	1,94	1,54	1,15	0,86	0,63	0,45	0,32	-	-	-	-
				Suction	2,42	1,94	1,62	1,24	0,93	0,70	0,52	0,41	0,32	-	-	-
			L/100	Pressure	3,70	2,49	1,73	1,23	0,87	0,63	0,45	0,32	-	-	-	-
				Suction	3,70	2,49	1,62	1,08	0,69	0,40	-	-	-	-	-	-
		SLS	L/150	Pressure	2,46	1,61	1,04	0,67	0,38	-	-	-	-	-	-	-
				Suction	2,31	1,36	0,65	-	-	-	-	-	-	-	-	-
		L/200	Pressure	1,74	1,05	0,53	-	-	-	-	-	-	-	-	-	
			Suction	1,38	0,47	-	-	-	-	-	-	-	-	-	-	

External facing thickness: 0,5 mm

Internal facing thickness: 0,5 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

Minimum number of fasteners at the intermediate support: 3

For other steel thickness or maximum installation length exceeding 7,5 m. additional calculations are needed.

Maximum allowable wind pressure/suction [kN/m²] for the length of span made of Balpol **50mm** thickness panels (Standard wall PIR panel, wall PIR panel with thermo lock, wall PIR panel with hidden fastening).

Double span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m ²] at the given span (m)													
	ULS – Ultimate Limit State	SLS – Serviceability Limit State	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5		
50	I	ULS	Pressure	2,42	1,94	1,54	1,15	0,89	0,70	0,58	0,48	0,42	0,36	0,30	-	
			Suction	2,42	1,94	1,54	1,15	0,89	0,70	0,58	0,48	0,42	0,36	0,30	-	
		L/100	Pressure	3,64	2,87	2,16	1,46	1,05	0,80	0,65	0,51	0,44	0,38	0,32	0,26	
			Suction	3,72	2,92	2,02	1,38	0,99	0,76	0,61	0,49	0,43	0,37	0,30	-	
		SLS	L/150	Pressure	2,80	2,03	1,53	1,18	0,93	0,74	0,61	0,49	0,43	0,36	0,29	-
				Suction	2,80	2,03	1,53	1,18	0,93	0,74	0,60	0,49	0,42	0,36	0,29	-
		L/200	Pressure	2,11	1,52	1,15	0,89	0,70	0,56	0,46	0,38	0,30	-	-	-	
			Suction	2,11	1,52	1,15	0,89	0,70	0,56	0,46	0,39	0,32	-	-	-	
		II	ULS	Pressure	2,42	1,94	1,54	1,15	0,89	0,70	0,58	0,48	0,42	0,36	0,30	-
				Suction	2,42	1,94	1,54	1,15	0,89	0,70	0,58	0,48	0,42	0,36	0,30	-
			L/100	Pressure	3,64	2,87	2,16	1,46	1,05	0,80	0,65	0,51	0,44	0,38	0,32	0,26
				Suction	3,72	2,92	2,02	1,38	0,99	0,76	0,61	0,49	0,43	0,37	0,30	-
	SLS		L/150	Pressure	2,80	2,03	1,53	1,18	0,93	0,74	0,61	0,49	0,43	0,36	0,29	-
				Suction	2,80	2,03	1,53	1,18	0,93	0,74	0,60	0,49	0,42	0,36	0,29	-
	L/200		Pressure	2,11	1,52	1,15	0,89	0,70	0,56	0,46	0,38	0,30	-	-	-	
			Suction	2,11	1,52	1,15	0,89	0,70	0,56	0,46	0,39	0,32	-	-	-	
	III		ULS	Pressure	2,42	1,94	1,54	1,15	0,89	0,70	0,57	0,48	0,42	0,36	0,30	-
				Suction	2,42	1,94	1,61	1,26	0,97	0,76	0,61	0,49	0,43	0,36	0,30	-
			L/100	Pressure	3,64	2,87	2,16	1,46	1,06	0,80	0,64	0,51	0,44	0,38	0,32	0,26
				Suction	3,54	2,23	1,11	0,64	0,41	0,26	-	-	-	-	-	-
		SLS	L/150	Pressure	2,80	2,03	1,53	1,18	0,93	0,74	0,61	0,49	0,42	0,36	0,29	-
				Suction	2,80	2,03	1,11	0,64	0,41	0,26	-	-	-	-	-	-
		L/200	Pressure	2,11	1,52	1,15	0,89	0,70	0,56	0,46	0,38	0,30	-	-	-	
			Suction	2,11	1,52	1,08	0,64	0,41	0,26	-	-	-	-	-	-	

External facing thickness: 0,5 mm

Internal facing thickness: 0,5 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

Minimum number of fasteners at the intermediate support: 3

For other steel thickness or maximum installation length exceeding 7,5 m. additional calculations are needed.

Maximum allowable wind pressure/suction [kN/m²] for the length of span made of Balpol **80mm** thickness panels (Standard wall PIR panel, wall PIR panel with thermo lock, wall PIR panel with hidden fastening).

Single span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m ²] at the given span (m)													
	ULS – Ultimate Limit State	SLS – Serviceability Limit State	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5		
80	I	ULS	Pressure	3,10	2,48	2,07	1,77	1,41	1,12	0,91	0,75	0,64	0,54	0,46	0,39	
			Suction	3,10	2,48	2,07	1,77	1,53	1,22	0,99	0,83	0,70	0,60	0,50	0,44	
		L/100	Pressure	-	4,64	3,85	2,89	2,16	1,65	1,29	1,02	0,80	0,64	0,50	0,42	
			Suction	-	4,64	3,85	2,89	2,16	1,65	1,29	1,02	0,82	0,68	0,55	0,46	
		SLS	L/150	Pressure	-	3,68	2,62	1,92	1,40	1,02	0,76	0,57	0,40	0,26	-	-
				Suction	-	3,68	2,62	1,92	1,44	1,11	0,85	0,66	0,50	0,41	0,33	-
		L/200	Pressure	4,01	2,76	1,91	1,31	0,92	0,60	0,36	-	-	-	-	-	
			Suction	4,01	2,76	1,97	1,44	1,05	0,77	0,58	0,42	0,30	-	-	-	
		II	ULS	Pressure	3,10	2,48	2,07	1,77	1,41	1,12	0,91	0,75	0,64	0,54	0,46	0,39
				Suction	3,10	2,48	2,07	1,77	1,53	1,22	0,99	0,83	0,70	0,60	0,50	0,44
			L/100	Pressure	-	4,64	3,85	2,89	2,16	1,65	1,29	1,02	0,80	0,64	0,50	0,42
				Suction	-	4,64	3,85	2,89	2,16	1,65	1,29	1,02	0,82	0,68	0,55	0,46
	SLS		L/150	Pressure	-	3,68	2,62	1,92	1,40	1,02	0,76	0,57	0,40	0,26	-	-
				Suction	-	3,68	2,62	1,92	1,44	1,11	0,85	0,66	0,50	0,41	0,33	-
	L/200		Pressure	4,01	2,76	1,91	1,31	0,92	0,60	0,36	-	-	-	-	-	
			Suction	4,01	2,76	1,97	1,44	1,05	0,77	0,58	0,42	0,30	-	-	-	
	III		ULS	Pressure	3,10	2,48	2,07	1,77	1,41	1,12	0,91	0,75	0,64	0,54	0,46	0,39
				Suction	3,10	2,48	2,07	1,77	1,55	1,38	1,18	0,90	0,67	0,48	0,35	-
			L/100	Pressure	-	4,64	3,85	2,89	2,16	1,65	1,29	1,02	0,80	0,64	0,50	0,42
				Suction	-	4,64	3,85	2,89	2,16	1,59	1,18	0,90	0,67	0,48	0,35	-
		SLS	L/150	Pressure	-	3,68	2,62	1,92	1,40	1,02	0,76	0,57	0,40	-	-	-
				Suction	-	3,68	2,51	1,73	1,19	0,74	0,43	-	-	-	-	-
		L/200	Pressure	4,01	2,76	1,91	1,31	0,92	0,60	-	-	-	-	-	-	
			Suction	4,01	2,53	1,63	0,88	0,42	-	-	-	-	-	-	-	

External facing thickness: 0,5 mm

Internal facing thickness: 0,5 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

Minimum number of fasteners at the intermediate support: 3

For other steel thickness or maximum installation length exceeding 7,5 m. additional calculations are needed.

Maximum allowable wind pressure/suction [kN/m²] for the length of span made of Balpol **80mm** thickness panels (Standard wall PIR panel, wall PIR panel with thermo lock, wall PIR panel with hidden fastening).

Double span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m ²] at the given span (m)													
	ULS – Ultimate Limit State	SLS – Serviceability Limit State	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5		
80	I	ULS	Pressure	3,10	2,48	2,07	1,77	1,41	1,12	0,91	0,75	0,64	0,54	0,47	0,43	
			Suction	3,10	2,48	2,07	1,77	1,53	1,22	0,99	0,80	0,67	0,56	0,48	0,43	
		L/100	Pressure	4,71	3,69	3,03	2,50	1,79	1,34	1,05	0,85	0,70	0,59	0,49	0,44	
			Suction	4,79	3,75	3,09	2,35	1,69	1,26	0,99	0,81	0,67	0,56	0,48	0,43	
		SLS	L/150	Pressure	4,71	3,69	3,03	2,50	1,79	1,34	1,05	0,85	0,70	0,59	0,49	0,44
				Suction	4,79	3,75	3,09	2,35	1,69	1,26	0,99	0,81	0,67	0,56	0,48	0,43
		L/200	Pressure	4,40	3,24	2,47	1,93	1,54	1,24	1,02	0,84	0,70	0,59	0,49	0,44	
			Suction	4,40	3,24	2,47	1,93	1,54	1,24	0,99	0,81	0,67	0,56	0,48	0,43	
		II	ULS	Pressure	3,10	2,48	2,07	1,77	1,41	1,12	0,91	0,75	0,64	0,54	0,47	0,43
				Suction	3,10	2,48	2,07	1,77	1,53	1,22	0,99	0,80	0,67	0,56	0,48	0,43
			L/100	Pressure	4,71	3,69	3,03	2,50	1,79	1,34	1,05	0,85	0,70	0,59	0,49	0,44
				Suction	4,79	3,75	3,09	2,35	1,69	1,26	0,99	0,81	0,67	0,56	0,48	0,43
	SLS		L/150	Pressure	4,71	3,69	3,03	2,50	1,79	1,34	1,05	0,85	0,70	0,59	0,49	0,44
				Suction	4,79	3,75	3,09	2,35	1,69	1,26	0,99	0,81	0,67	0,56	0,48	0,43
	L/200		Pressure	4,40	3,24	2,47	1,93	1,54	1,24	1,02	0,84	0,70	0,59	0,49	0,44	
			Suction	4,40	3,24	2,47	1,93	1,54	1,24	0,99	0,81	0,67	0,56	0,48	0,43	
	III		ULS	Pressure	3,10	2,48	2,07	1,77	1,41	1,12	0,91	0,74	0,64	0,54	0,47	0,43
				Suction	3,10	2,48	2,06	1,24	0,76	0,50	0,37	-	-	-	-	-
			L/100	Pressure	4,71	3,69	3,03	2,50	1,79	1,34	1,05	0,85	0,70	0,59	0,49	0,44
				Suction	4,56	3,58	2,23	1,24	0,76	0,50	0,37	-	-	-	-	-
		SLS	L/150	Pressure	4,71	3,69	3,03	2,50	1,79	1,34	1,05	0,85	0,70	0,59	0,49	0,44
				Suction	4,56	3,58	2,23	1,24	0,76	0,50	0,37	-	-	-	-	-
		L/200	Pressure	4,40	3,24	2,47	1,93	1,54	1,24	1,02	0,84	0,70	0,59	0,49	0,44	
			Suction	4,40	3,24	2,23	1,24	0,76	0,50	0,37	-	-	-	-	-	

External facing thickness: 0,5 mm

Internal facing thickness: 0,5 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

Minimum number of fasteners at the intermediate support: 3

For other steel thickness or maximum installation length exceeding 7,5 m. additional calculations are needed.

Maximum allowable wind pressure/suction [kN/m²] for the length of span made of Balpol **100mm** thickness panels (Standard wall PIR panel, wall PIR panel with thermo lock, wall PIR panel with hidden fastening).

Single span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m ²] at the given span (m)													
	ULS – Ultimate Limit State	SLS – Serviceability Limit State	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5		
100	I	ULS	Pressure	3,89	3,10	2,59	2,20	1,76	1,40	1,14	0,94	0,79	0,68	0,59	0,50	
			Suction	3,89	3,10	2,59	2,22	1,91	1,53	1,24	1,03	0,87	0,74	0,65	0,56	
		L/100	Pressure	-	-	4,84	3,98	3,04	2,36	1,86	1,48	1,20	0,98	0,81	0,67	
			Suction	-	-	4,84	3,98	3,04	2,36	1,86	1,48	1,20	0,98	0,82	0,69	
		SLS	L/150	Pressure	-	4,89	3,57	2,66	2,02	1,57	1,20	0,93	0,72	0,57	0,44	0,33
				Suction	-	4,89	3,57	2,66	2,02	1,57	1,23	0,99	0,80	0,65	0,52	0,44
		L/200	Pressure	-	3,67	2,67	1,99	1,44	1,06	0,80	0,56	0,39	-	-	-	
			Suction	-	3,67	2,67	1,99	1,52	1,18	0,91	0,70	0,55	0,43	0,33	-	
		II	ULS	Pressure	3,89	3,10	2,59	2,20	1,76	1,40	1,14	0,94	0,79	0,68	0,59	0,50
				Suction	3,89	3,10	2,59	2,22	1,91	1,53	1,24	1,03	0,87	0,74	0,65	0,56
			L/100	Pressure	-	-	4,84	3,98	3,04	2,36	1,86	1,48	1,20	0,98	0,81	0,67
				Suction	-	-	4,84	3,98	3,04	2,36	1,86	1,48	1,20	0,98	0,82	0,69
	SLS		L/150	Pressure	-	4,89	3,57	2,66	2,02	1,57	1,20	0,93	0,72	0,57	0,44	0,33
				Suction	-	4,89	3,57	2,66	2,02	1,57	1,23	0,99	0,80	0,65	0,52	0,44
	L/200		Pressure	-	3,67	2,67	1,99	1,44	1,06	0,80	0,56	0,39	-	-	-	
			Suction	-	3,67	2,67	1,99	1,44	1,06	0,80	0,56	0,39	-	-	-	
	III		ULS	Pressure	3,89	3,10	2,59	2,20	1,76	1,39	1,13	0,94	0,79	0,68	0,59	0,50
				Suction	3,89	3,10	2,59	2,21	1,94	1,73	1,56	1,37	1,13	0,89	0,71	0,57
			L/100	Pressure	-	-	4,83	3,98	3,04	2,36	1,86	1,48	1,20	0,98	0,81	0,67
				Suction	-	-	4,83	3,98	3,04	2,36	1,85	1,44	1,13	0,90	0,71	0,57
		SLS	L/150	Pressure	-	4,89	3,57	2,66	2,02	1,57	1,20	0,93	0,72	0,57	0,44	0,33
				Suction	-	4,89	3,57	2,62	1,89	1,39	1,03	0,70	0,46	0,29	-	-
		L/200	Pressure	-	3,67	2,67	1,99	1,44	1,06	0,80	0,56	0,27	-	-	-	
			Suction	-	3,66	2,50	1,73	1,14	0,67	0,36	-	-	-	-	-	

External facing thickness: 0,5 mm

Internal facing thickness: 0,5 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

Minimum number of fasteners at the intermediate support: 3

For other steel thickness or maximum installation length exceeding 7,5 m. additional calculations are needed.

Maximum allowable wind pressure/suction [kN/m²] for the length of span made of Balpol **100mm** thickness panels (Standard wall PIR panel, wall PIR panel with thermo lock, wall PIR panel with hidden fastening).

Double span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m ²] at the given span (m)													
	ULS – Ultimate Limit State	SLS – Serviceability Limit State	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5		
100	I	ULS	Pressure	3,89	3,10	2,59	2,20	1,76	1,39	1,13	0,94	0,79	0,68	0,59	0,50	
			Suction	3,89	3,10	2,59	2,20	1,91	1,53	1,24	1,03	0,86	0,72	0,62	0,52	
		L/100	Pressure	-	4,70	3,86	3,28	2,38	1,77	1,38	1,10	0,90	0,74	0,64	0,55	
			Suction	-	4,78	3,93	3,17	2,24	1,67	1,30	1,04	0,86	0,72	0,62	0,52	
		SLS	L/150	Pressure	-	4,70	3,86	3,28	2,38	1,77	1,37	1,10	0,90	0,74	0,64	0,55
				Suction	-	4,78	3,93	3,18	2,24	1,67	1,30	1,04	0,86	0,71	0,62	0,52
		L/200	Pressure	-	4,14	3,19	2,53	2,04	1,67	1,36	1,10	0,90	0,74	0,64	0,55	
			Suction	-	4,14	3,19	2,54	2,04	1,66	1,30	1,04	0,86	0,72	0,62	0,52	
		II	ULS	Pressure	3,89	3,10	2,59	2,20	1,76	1,39	1,13	0,94	0,79	0,68	0,59	0,50
				Suction	3,89	3,10	2,59	2,20	1,91	1,53	1,24	1,03	0,86	0,72	0,62	0,52
			L/100	Pressure	-	4,70	3,86	3,28	2,38	1,77	1,38	1,10	0,90	0,74	0,64	0,55
				Suction	-	4,78	3,93	3,17	2,24	1,67	1,30	1,04	0,86	0,72	0,62	0,52
	SLS		L/150	Pressure	-	4,70	3,86	3,28	2,38	1,77	1,37	1,10	0,90	0,74	0,64	0,55
				Suction	-	4,78	3,93	3,18	2,24	1,67	1,30	1,04	0,86	0,71	0,62	0,52
	L/200		Pressure	-	4,14	3,19	2,53	2,04	1,67	1,36	1,10	0,90	0,74	0,64	0,55	
			Suction	-	4,14	3,19	2,54	2,04	1,66	1,30	1,04	0,86	0,72	0,62	0,52	
	III		ULS	Pressure	3,89	3,10	2,59	2,20	1,76	1,40	1,13	0,94	0,79	0,68	0,59	0,50
				Suction	3,89	3,10	2,59	1,95	1,18	0,77	0,52	0,40	0,28	-	-	-
			L/100	Pressure	-	4,70	3,86	3,28	2,38	1,77	1,38	1,10	0,90	0,74	0,64	0,55
				Suction	-	4,58	3,52	1,95	1,18	0,76	0,52	0,40	0,28	-	-	-
		SLS	L/150	Pressure	-	4,70	3,86	3,28	2,38	1,77	1,38	1,10	0,90	0,74	0,64	0,55
				Suction	-	4,58	3,52	1,95	1,18	0,77	0,52	0,40	0,28	-	-	-
		L/200	Pressure	-	4,14	3,19	2,54	2,04	1,68	1,36	1,10	0,90	0,74	0,64	0,55	
			Suction	-	4,14	3,19	1,95	1,18	0,76	0,52	0,40	0,29	-	-	-	

External facing thickness: 0,5 mm

Internal facing thickness: 0,5 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

Minimum number of fasteners at the intermediate support: 3

For other steel thickness or maximum installation length exceeding 7,5 m. additional calculations are needed.

Maximum allowable wind pressure/suction [kN/m²] for the length of span made of Balpol **120mm** thickness panels (Standard wall PIR panel, wall PIR panel with thermo lock, wall PIR panel with hidden fastening).

Single span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m ²] at the given span (m)													
	ULS – Ultimate Limit State	SLS – Serviceability Limit State	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5		
120	I	ULS	Pressure	4,67	3,72	3,10	2,65	2,11	1,67	1,36	1,13	0,95	0,81	0,70	0,62	
			Suction	4,67	3,72	3,10	2,65	2,29	1,84	1,48	1,23	1,03	0,89	0,76	0,68	
		L/100	Pressure	-	-	-	4,87	3,74	2,95	2,39	1,98	1,65	1,37	1,14	0,95	
			Suction	-	-	-	4,97	4,09	3,19	2,54	2,04	1,65	1,37	1,14	0,95	
		SLS	L/150	Pressure	-	-	4,68	3,54	2,73	2,13	1,69	1,36	1,08	0,86	0,70	0,57
				Suction	-	-	4,68	3,54	2,73	2,13	1,69	1,36	1,11	0,92	0,75	0,64
		L/200	Pressure	-	4,76	3,51	2,65	2,04	1,55	1,18	0,91	0,70	0,52	0,39	0,26	
			Suction	-	4,76	3,51	2,65	2,04	1,60	1,27	1,02	0,81	0,66	0,52	0,43	
		II	ULS	Pressure	4,67	3,72	3,10	2,65	2,11	1,67	1,36	1,13	0,95	0,81	0,70	0,62
				Suction	4,67	3,72	3,10	2,65	2,29	1,84	1,48	1,23	1,03	0,89	0,76	0,68
			L/100	Pressure	-	-	-	4,87	3,74	2,95	2,39	1,98	1,65	1,37	1,14	0,95
				Suction	-	-	-	4,97	4,09	3,19	2,54	2,04	1,65	1,37	1,14	0,95
	SLS		L/150	Pressure	-	-	4,68	3,54	2,73	2,13	1,69	1,36	1,08	0,86	0,70	0,57
				Suction	-	-	4,68	3,54	2,73	2,13	1,69	1,36	1,08	0,86	0,70	0,57
	L/200		Pressure	-	4,76	3,51	2,65	2,04	1,55	1,18	0,91	0,70	0,52	0,39	0,26	
			Suction	-	4,76	3,51	2,65	2,04	1,55	1,18	0,91	0,70	0,53	0,39	0,26	
	III		ULS	Pressure	4,67	3,72	3,10	2,65	2,11	1,67	1,36	1,13	0,94	0,81	0,70	0,62
				Suction	4,67	3,72	3,10	2,66	2,33	2,08	1,87	1,70	1,55	1,33	1,07	0,88
			L/100	Pressure	-	-	-	4,87	3,74	2,95	2,39	1,97	1,65	1,37	1,14	0,95
				Suction	-	-	-	4,97	4,09	3,19	2,54	2,04	1,65	1,33	1,07	0,88
		SLS	L/150	Pressure	-	-	4,68	3,54	2,73	2,13	1,69	1,36	1,08	0,86	0,70	0,57
				Suction	-	-	4,68	3,54	2,72	2,05	1,55	1,20	0,91	0,67	0,47	0,33
		L/200	Pressure	-	4,76	3,51	2,65	2,04	1,55	1,18	0,92	0,70	0,52	0,34	-	
			Suction	-	4,76	3,51	2,50	1,82	1,32	0,87	0,55	0,32	-	-	-	

External facing thickness: 0,5 mm

Internal facing thickness: 0,5 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

Minimum number of fasteners at the intermediate support: 3

For other steel thickness or maximum installation length exceeding 7,5 m. additional calculations are needed.

Maximum allowable wind pressure/suction [kN/m²] for the length of span made of Balpol **120mm** thickness panels (Standard wall PIR panel, wall PIR panel with thermo lock, wall PIR panel with hidden fastening).

Double span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m ²] at the given span (m)													
	ULS – Ultimate Limit State	SLS – Serviceability Limit State	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5		
120	I	ULS	Pressure	4,67	3,72	3,10	2,65	2,11	1,67	1,36	1,13	0,94	0,81	0,70	0,62	
			Suction	4,67	3,72	3,10	2,66	2,30	1,84	1,49	1,23	1,04	0,88	0,74	0,65	
		L/100	Pressure	-	-	4,69	3,97	3,01	2,22	1,70	1,36	1,10	0,92	0,77	0,67	
			Suction	-	-	4,75	4,00	2,81	2,08	1,61	1,28	1,04	0,88	0,74	0,65	
		SLS	L/150	Pressure	-	-	4,69	3,98	3,01	2,22	1,70	1,36	1,10	0,92	0,77	0,67
				Suction	-	-	4,69	3,98	3,01	2,22	1,70	1,35	1,10	0,92	0,77	0,67
		L/200	Pressure	-	-	4,09	3,27	2,66	2,17	1,70	1,35	1,10	0,92	0,77	0,67	
			Suction	-	-	4,09	3,27	2,66	2,08	1,61	1,28	1,04	0,88	0,73	0,65	
		II	ULS	Pressure	4,67	3,72	3,10	2,65	2,11	1,67	1,36	1,13	0,94	0,81	0,70	0,62
				Suction	4,67	3,72	3,10	2,66	2,30	1,84	1,49	1,23	1,04	0,88	0,74	0,65
			L/100	Pressure	-	-	4,69	3,97	3,01	2,22	1,70	1,36	1,10	0,92	0,77	0,67
				Suction	-	-	4,75	4,00	2,81	2,08	1,61	1,28	1,04	0,88	0,74	0,65
	SLS		L/150	Pressure	-	-	4,69	3,98	3,01	2,22	1,70	1,36	1,10	0,92	0,77	0,67
				Suction	-	-	4,69	3,98	3,01	2,22	1,70	1,35	1,10	0,92	0,77	0,67
	L/200		Pressure	-	-	4,09	3,27	2,66	2,17	1,70	1,35	1,10	0,92	0,77	0,67	
			Suction	-	-	4,09	3,27	2,66	2,08	1,61	1,28	1,04	0,88	0,73	0,65	
	III		ULS	Pressure	4,67	3,72	3,10	2,65	2,11	1,67	1,36	1,13	0,95	0,81	0,70	0,62
				Suction	4,67	3,72	3,10	2,59	1,62	1,05	0,72	0,50	0,40	0,29	-	-
			L/100	Pressure	-	-	4,69	3,98	3,01	2,22	1,70	1,35	1,10	0,92	0,77	0,67
				Suction	-	-	4,57	2,68	1,62	1,05	0,71	0,50	0,40	0,29	-	-
		SLS	L/150	Pressure	-	-	4,69	3,98	3,01	2,22	1,70	1,36	1,10	0,92	0,77	0,67
				Suction	-	-	4,57	2,68	1,62	1,05	0,72	0,50	0,40	0,29	-	-
		L/200	Pressure	-	-	4,09	3,27	2,66	2,17	1,70	1,36	1,10	0,92	0,77	0,67	
			Suction	-	-	4,09	2,68	1,62	1,05	0,72	0,50	0,40	0,29	-	-	

External facing thickness: 0,5 mm

Internal facing thickness: 0,5 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

Minimum number of fasteners at the intermediate support: 3

For other steel thickness or maximum installation length exceeding 7,5 m. additional calculations are needed.

Maximum allowable wind pressure/suction [kN/m²] for the length of span made of Balpol **140mm** thickness panels (Standard wall PIR panel, wall PIR panel with thermo lock, wall PIR panel with hidden fastening).

Single span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m ²] at the given span (m)													
	ULS – Ultimate Limit State	SLS – Serviceability Limit State	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5		
140	I	ULS	Pressure	-	4,35	3,63	3,11	2,47	1,95	1,58	1,30	1,10	0,94	0,81	0,71	
			Suction	-	4,35	3,63	3,11	2,69	2,14	1,74	1,44	1,21	1,03	0,90	0,77	
		L/100	Pressure	-	-	-	-	4,36	3,44	2,79	2,30	1,94	1,65	1,43	1,24	
			Suction	-	-	-	-	4,80	3,79	3,07	2,54	2,13	1,78	1,48	1,25	
		SLS	L/150	Pressure	-	-	-	4,42	3,42	2,70	2,17	1,75	1,44	1,18	0,96	0,79
				Suction	-	-	-	4,42	3,42	2,70	2,17	1,75	1,44	1,19	0,99	0,84
		L/200	Pressure	-	-	4,33	3,31	2,57	2,03	1,61	1,26	0,99	0,79	0,64	0,49	
			Suction	-	-	4,33	3,31	2,57	2,03	1,63	1,32	1,08	0,89	0,72	0,60	
		II	ULS	Pressure	-	4,35	3,63	3,11	2,47	1,95	1,58	1,30	1,10	0,94	0,81	0,71
				Suction	-	4,35	3,63	3,11	2,69	2,14	1,74	1,44	1,21	1,03	0,90	0,77
			L/100	Pressure	-	-	-	-	4,36	3,44	2,79	2,30	1,94	1,65	1,43	1,24
				Suction	-	-	-	-	4,80	3,79	3,07	2,54	2,13	1,78	1,48	1,25
	SLS		L/150	Pressure	-	-	-	4,42	3,42	2,70	2,17	1,75	1,44	1,18	0,96	0,79
				Suction	-	-	-	4,42	3,42	2,70	2,17	1,75	1,44	1,18	0,97	0,79
	L/200		Pressure	-	-	4,33	3,31	2,57	2,03	1,61	1,26	0,99	0,79	0,64	0,49	
			Suction	-	-	4,33	3,31	2,57	2,03	1,61	1,26	0,99	0,79	0,64	0,49	
	III		ULS	Pressure	-	4,35	3,63	3,11	2,46	1,95	1,58	1,31	1,10	0,94	0,81	0,71
				Suction	-	4,35	3,63	3,11	2,72	2,42	2,18	1,98	1,82	1,65	1,48	1,23
			L/100	Pressure	-	-	-	-	4,36	3,44	2,79	2,30	1,94	1,65	1,43	1,24
				Suction	-	-	-	-	4,80	3,78	3,07	2,54	2,13	1,78	1,48	1,22
		SLS	L/150	Pressure	-	-	-	4,42	3,42	2,70	2,17	1,75	1,44	1,19	0,97	0,79
				Suction	-	-	-	4,42	3,42	2,70	2,12	1,66	1,30	1,04	0,82	0,63
		L/200	Pressure	-	-	4,33	3,31	2,57	2,03	1,61	1,26	0,99	0,79	0,64	0,49	
			Suction	-	-	4,33	3,31	2,46	1,84	1,40	1,02	0,70	0,47	0,29	-	

External facing thickness: 0,5 mm

Internal facing thickness: 0,5 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

Minimum number of fasteners at the intermediate support: 3

For other steel thickness or maximum installation length exceeding 7,5 m. additional calculations are needed.

Maximum allowable wind pressure/suction [kN/m²] for the length of span made of Balpol **140mm** thickness panels (Standard wall PIR panel, wall PIR panel with thermo lock, wall PIR panel with hidden fastening).

Double span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m ²] at the given span (m)													
	ULS – Ultimate Limit State	SLS – Serviceability Limit State	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5		
140	I	ULS	Pressure	-	4,35	3,63	3,11	2,47	1,95	1,58	1,31	1,10	0,94	0,81	0,71	
			Suction	-	4,35	3,63	3,11	2,69	2,14	1,74	1,44	1,21	1,03	0,88	0,74	
		L/100	Pressure	-	-	-	4,68	3,69	2,69	2,07	1,63	1,32	1,10	0,93	0,79	
			Suction	-	-	-	4,75	3,46	2,53	1,94	1,54	1,24	1,04	0,88	0,75	
		SLS	L/150	Pressure	-	-	-	4,68	3,69	2,69	2,07	1,63	1,32	1,10	0,93	0,79
				Suction	-	-	-	4,75	3,46	2,53	1,94	1,54	1,24	1,04	0,89	0,75
		L/200	Pressure	-	-	4,92	3,96	3,24	2,66	2,06	1,63	1,32	1,10	0,93	0,79	
			Suction	-	-	4,92	3,95	3,24	2,53	1,94	1,54	1,24	1,04	0,88	0,75	
		II	ULS	Pressure	-	4,35	3,63	3,11	2,47	1,95	1,58	1,31	1,10	0,94	0,81	0,71
				Suction	-	4,35	3,63	3,11	2,69	2,14	1,74	1,44	1,21	1,03	0,88	0,74
			L/100	Pressure	-	-	-	4,68	3,69	2,69	2,07	1,63	1,32	1,10	0,93	0,79
				Suction	-	-	-	4,75	3,46	2,53	1,94	1,54	1,24	1,04	0,88	0,75
	SLS		L/150	Pressure	-	-	-	4,68	3,69	2,69	2,07	1,63	1,32	1,10	0,93	0,79
				Suction	-	-	-	4,75	3,46	2,53	1,94	1,54	1,24	1,04	0,89	0,75
	L/200		Pressure	-	-	4,92	3,96	3,24	2,66	2,06	1,63	1,32	1,10	0,93	0,79	
			Suction	-	-	4,92	3,95	3,24	2,53	1,94	1,54	1,24	1,04	0,88	0,75	
	III		ULS	Pressure	-	4,35	3,63	3,11	2,47	1,95	1,58	1,31	1,10	0,94	0,81	0,71
				Suction	-	4,35	3,63	3,11	2,17	1,40	0,94	0,68	0,49	0,39	0,29	-
			L/100	Pressure	-	-	-	4,68	3,69	2,69	2,07	1,63	1,32	1,10	0,93	0,79
				Suction	-	-	-	4,75	3,46	2,53	1,94	1,54	1,24	1,04	0,88	0,75
		SLS	L/150	Pressure	-	-	-	4,68	3,69	2,69	2,07	1,63	1,32	1,10	0,92	0,79
				Suction	-	-	-	3,60	2,17	1,40	0,95	0,68	0,49	0,39	0,29	-
		L/200	Pressure	-	-	4,92	3,96	3,24	2,66	2,07	1,63	1,32	1,10	0,93	0,79	
			Suction	-	-	4,92	3,60	2,17	1,40	0,94	0,68	0,49	0,39	0,29	-	

External facing thickness: 0,5 mm

Internal facing thickness: 0,5 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

Minimum number of fasteners at the intermediate support: 3

For other steel thickness or maximum installation length exceeding 7,5 m. additional calculations are needed.

Maximum allowable wind pressure/suction [kN/m²] for the length of span made of Balpol **150mm** thickness panels (Standard wall PIR panel, wall PIR panel with thermo lock, wall PIR panel with hidden fastening).

Single span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m ²] at the given span (m)													
	ULS – Ultimate Limit State	SLS – Serviceability Limit State	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5		
150	I	ULS	Pressure	-	4,66	3,88	3,33	2,65	2,09	1,69	1,40	1,18	1,00	0,87	0,75	
			Suction	-	4,66	3,88	3,33	2,87	2,29	1,86	1,54	1,29	1,11	0,95	0,84	
		L/100	Pressure	-	-	-	-	4,67	3,68	2,99	2,47	2,08	1,77	1,52	1,34	
			Suction	-	-	-	-	5,00	4,06	3,29	2,71	2,28	1,95	1,67	1,42	
		SLS	L/150	Pressure	-	-	-	4,86	3,79	3,00	2,41	1,96	1,61	1,33	1,11	0,92
				Suction	-	-	-	4,86	3,79	3,00	2,41	1,96	1,61	1,33	1,12	0,95
		L/200	Pressure	-	-	4,73	3,65	2,85	2,25	1,81	1,44	1,15	0,92	0,74	0,61	
			Suction	-	-	4,73	3,65	2,85	2,25	1,81	1,47	1,21	1,00	0,83	0,70	
		II	ULS	Pressure	-	4,66	3,88	3,33	2,65	2,09	1,69	1,40	1,18	1,00	0,87	0,75
				Suction	-	4,66	3,88	3,33	2,87	2,29	1,86	1,54	1,29	1,11	0,95	0,84
			L/100	Pressure	-	-	-	-	4,67	3,68	2,99	2,47	2,08	1,77	1,52	1,34
				Suction	-	-	-	-	5,00	4,06	3,29	2,71	2,28	1,95	1,67	1,42
	SLS		L/150	Pressure	-	-	-	4,86	3,79	3,00	2,41	1,96	1,61	1,33	1,11	0,92
				Suction	-	-	-	4,86	3,79	3,00	2,41	1,96	1,61	1,33	1,12	0,95
	L/200		Pressure	-	-	4,73	3,65	2,85	2,25	1,81	1,44	1,15	0,92	0,74	0,61	
			Suction	-	-	4,73	3,65	2,85	2,25	1,81	1,47	1,21	1,00	0,83	0,70	
	III		ULS	Pressure	-	4,66	3,88	3,33	2,65	2,09	1,69	1,40	1,18	1,00	0,87	0,75
				Suction	-	4,66	3,88	3,33	2,91	2,60	2,33	2,12	1,94	1,79	1,61	1,41
			L/100	Pressure	-	-	-	-	4,67	3,69	2,99	2,47	2,08	1,77	1,52	1,33
				Suction	-	-	-	-	5,00	4,06	3,29	2,71	2,28	1,95	1,67	1,41
		SLS	L/150	Pressure	-	-	-	4,86	3,79	3,00	2,41	1,96	1,61	1,33	1,11	0,92
				Suction	-	-	-	4,86	3,79	3,00	2,41	1,90	1,51	1,20	0,97	0,78
		L/200	Pressure	-	-	4,73	3,65	2,85	2,25	1,81	1,44	1,15	0,92	0,74	0,60	
			Suction	-	-	4,73	3,65	2,79	2,11	1,62	1,24	0,91	0,64	0,43	0,28	

External facing thickness: 0,5 mm

Internal facing thickness: 0,5 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

Minimum number of fasteners at the intermediate support: 3

For other steel thickness or maximum installation length exceeding 7,5 m. additional calculations are needed.

Maximum allowable wind pressure/suction [kN/m²] for the length of span made of Balpol **150mm** thickness panels (Standard wall PIR panel, wall PIR panel with thermo lock, wall PIR panel with hidden fastening).

Double span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m ²] at the given span (m)													
	ULS – Ultimate Limit State	SLS – Serviceability Limit State	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5		
150	I	ULS	Pressure	-	4,66	3,88	3,33	2,65	2,09	1,69	1,40	1,18	1,00	0,87	0,75	
			Suction	-	4,66	3,88	3,33	2,87	2,29	1,86	1,54	1,29	1,11	0,95	0,81	
		L/100	Pressure	-	-	-	5,00	4,06	2,95	2,25	1,77	1,43	1,19	0,99	0,86	
			Suction	-	-	-	-	3,79	2,77	2,12	1,68	1,36	1,13	0,95	0,82	
		SLS	L/150	Pressure	-	-	-	5,00	4,06	2,95	2,25	1,77	1,43	1,19	0,99	0,86
				Suction	-	-	-	-	3,79	2,77	2,12	1,68	1,36	1,13	0,95	0,82
		L/200	Pressure	-	-	-	4,31	3,53	2,92	2,25	1,77	1,43	1,19	0,99	0,86	
			Suction	-	-	-	4,31	3,53	2,77	2,12	1,68	1,36	1,13	0,95	0,82	
		II	ULS	Pressure	-	4,66	3,88	3,33	2,65	2,09	1,69	1,40	1,18	1,00	0,87	0,75
				Suction	-	4,66	3,88	3,33	2,87	2,29	1,86	1,54	1,29	1,11	0,95	0,81
			L/100	Pressure	-	-	-	5,00	4,06	2,95	2,25	1,77	1,43	1,19	0,99	0,86
				Suction	-	-	-	-	3,79	2,77	2,12	1,68	1,36	1,13	0,95	0,82
	SLS		L/150	Pressure	-	-	-	5,00	4,06	2,95	2,25	1,77	1,43	1,19	0,99	0,86
				Suction	-	-	-	-	3,79	2,77	2,12	1,68	1,36	1,13	0,95	0,82
	L/200		Pressure	-	-	-	4,31	3,53	2,92	2,25	1,77	1,43	1,19	0,99	0,86	
			Suction	-	-	-	4,31	3,53	2,77	2,12	1,68	1,36	1,13	0,95	0,82	
	III		ULS	Pressure	-	4,66	3,88	3,33	2,64	2,09	1,69	1,40	1,18	1,00	0,87	0,75
				Suction	-	4,66	3,88	3,33	2,46	1,59	1,07	0,75	0,55	0,43	0,34	-
			L/100	Pressure	-	-	-	5,00	4,06	2,95	2,25	1,77	1,43	1,19	0,99	0,86
				Suction	-	-	-	4,12	2,46	1,59	1,07	0,75	0,56	0,43	0,34	-
		SLS	L/150	Pressure	-	-	-	5,00	4,06	2,95	2,25	1,77	1,43	1,19	1,00	0,86
				Suction	-	-	-	4,12	2,46	1,59	1,07	0,75	0,56	0,43	0,34	-
		L/200	Pressure	-	-	-	4,31	3,53	2,92	2,25	1,77	1,43	1,19	1,00	0,86	
			Suction	-	-	-	4,12	2,46	1,59	1,07	0,75	0,56	0,43	0,34	-	

External facing thickness: 0,5 mm

Internal facing thickness: 0,5 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

Minimum number of fasteners at the intermediate support: 3

For other steel thickness or maximum installation length exceeding 7,5 m. additional calculations are needed.

Maximum allowable wind pressure/suction [kN/m²] for the length of span made of Balpol **160mm** thickness panels (Standard wall PIR panel, wall PIR panel with thermo lock, wall PIR panel with hidden fastening).

Single span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m ²] at the given span (m)													
	ULS – Ultimate Limit State	SLS – Serviceability Limit State	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5		
160	I	ULS	Pressure	-	4,97	4,15	3,55	2,82	2,20	1,80	1,49	1,25	1,07	0,93	0,81	
			Suction	-	4,97	4,45	3,55	3,06	2,45	1,98	1,65	1,38	1,18	1,01	0,89	
		L/100	Pressure	-	-	-	-	4,98	3,94	3,19	2,63	2,22	1,89	1,64	1,42	
			Suction	-	-	-	-	-	4,33	3,50	2,90	2,44	2,08	1,80	1,56	
		SLS	L/150	Pressure	-	-	-	-	4,16	3,32	2,67	2,17	1,79	1,48	1,24	1,05
				Suction	-	-	-	-	4,16	3,32	2,67	2,17	1,79	1,48	1,24	1,05
		L/200	Pressure	-	-	-	3,99	3,12	2,48	2,00	1,63	1,31	1,06	0,86	0,70	
			Suction	-	-	-	3,98	3,12	2,48	2,00	1,63	1,35	1,12	0,94	0,78	
		II	ULS	Pressure	-	4,97	4,15	3,55	2,82	2,20	1,80	1,49	1,25	1,07	0,93	0,81
				Suction	-	4,97	4,45	3,55	3,06	2,45	1,98	1,65	1,38	1,18	1,01	0,89
			L/100	Pressure	-	-	-	-	4,98	3,94	3,19	2,63	2,22	1,89	1,64	1,42
				Suction	-	-	-	-	-	4,33	3,50	2,90	2,44	2,08	1,80	1,56
	SLS		L/150	Pressure	-	-	-	-	4,16	3,32	2,67	2,17	1,79	1,48	1,24	1,05
				Suction	-	-	-	-	4,16	3,32	2,67	2,17	1,79	1,48	1,24	1,05
	L/200		Pressure	-	-	-	3,99	3,12	2,48	2,00	1,63	1,31	1,06	0,86	0,70	
			Suction	-	-	-	3,98	3,12	2,48	2,00	1,63	1,35	1,12	0,94	0,78	
	III		ULS	Pressure	-	4,97	4,15	3,55	2,82	2,22	1,80	1,49	1,25	1,07	0,93	0,81
				Suction	-	4,97	4,15	3,55	3,11	2,76	2,48	2,26	2,07	1,92	1,78	1,57
			L/100	Pressure	-	-	-	-	4,98	3,94	3,19	2,63	2,22	1,89	1,64	1,42
				Suction	-	-	-	-	-	4,33	3,50	2,90	2,44	2,08	1,80	1,56
		SLS	L/150	Pressure	-	-	-	-	4,16	3,32	2,67	2,18	1,79	1,49	1,25	1,05
				Suction	-	-	-	-	4,16	3,32	2,67	2,16	1,72	1,39	1,12	0,92
		L/200	Pressure	-	-	-	3,99	3,12	2,48	2,00	1,63	1,31	1,06	0,86	0,70	
			Suction	-	-	-	3,99	3,12	2,39	1,85	1,43	1,12	0,82	0,58	0,41	

External facing thickness: 0,5 mm

Internal facing thickness: 0,5 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

Minimum number of fasteners at the intermediate support: 3

For other steel thickness or maximum installation length exceeding 7,5 m. additional calculations are needed.

Maximum allowable wind pressure/suction [kN/m²] for the length of span made of Balpol **160mm** thickness panels (Standard wall PIR panel, wall PIR panel with thermo lock, wall PIR panel with hidden fastening).

Double span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m ²] at the given span (m)													
	ULS – Ultimate Limit State	SLS – Serviceability Limit State	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5		
160	I	ULS	Pressure	-	4,97	4,15	3,55	2,82	2,22	1,80	1,49	1,25	1,08	0,93	0,81	
			Suction	-	4,97	4,15	3,55	3,06	2,45	2,00	1,65	1,39	1,18	1,01	0,88	
		L/100	Pressure	-	-	-	-	4,45	3,22	2,44	1,92	1,55	1,28	1,08	0,93	
			Suction	-	-	-	-	4,15	3,01	2,30	1,81	1,47	1,22	1,02	0,88	
		SLS	L/150	Pressure	-	-	-	-	4,45	3,22	2,44	1,92	1,55	1,28	1,08	0,92
				Suction	-	-	-	-	4,15	3,02	2,30	1,81	1,47	1,21	1,02	0,88
		L/200	Pressure	-	-	-	4,66	3,83	3,18	2,44	1,92	1,55	1,28	1,08	0,92	
			Suction	-	-	-	4,66	3,83	3,02	2,30	1,81	1,47	1,21	1,02	0,88	
		II	ULS	Pressure	-	4,97	4,15	3,55	2,82	2,22	1,80	1,49	1,25	1,08	0,93	0,81
				Suction	-	4,97	4,15	3,55	3,06	2,45	2,00	1,65	1,39	1,18	1,01	0,88
			L/100	Pressure	-	-	-	-	4,45	3,22	2,44	1,92	1,55	1,28	1,08	0,93
				Suction	-	-	-	-	4,15	3,01	2,30	1,81	1,47	1,22	1,02	0,88
	SLS		L/150	Pressure	-	-	-	-	4,45	3,22	2,44	1,92	1,55	1,28	1,08	0,92
				Suction	-	-	-	-	4,15	3,02	2,30	1,81	1,47	1,21	1,02	0,88
	L/200		Pressure	-	-	-	4,66	3,83	3,18	2,44	1,92	1,55	1,28	1,08	0,92	
			Suction	-	-	-	4,66	3,83	3,02	2,30	1,81	1,47	1,21	1,02	0,88	
	III		ULS	Pressure	-	4,97	4,15	3,55	2,82	2,22	1,80	1,49	1,25	1,07	0,93	0,81
				Suction	-	4,97	4,15	3,55	2,79	1,78	1,21	0,86	0,63	0,48	0,38	0,29
			L/100	Pressure	-	-	-	-	4,45	3,22	2,44	1,92	1,55	1,28	1,08	0,92
				Suction	-	-	-	4,67	2,79	1,78	1,21	0,86	0,63	0,48	0,38	0,30
		SLS	L/150	Pressure	-	-	-	-	4,45	3,22	2,44	1,92	1,55	1,27	1,08	0,92
				Suction	-	-	-	4,67	2,79	1,78	1,21	0,86	0,63	0,48	0,38	0,30
		L/200	Pressure	-	-	-	4,66	3,83	3,18	2,44	1,92	1,55	1,27	1,08	0,92	
			Suction	-	-	-	4,60	2,79	1,78	1,21	0,86	0,63	0,47	0,38	0,29	

External facing thickness: 0,5 mm

Internal facing thickness: 0,5 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

Minimum number of fasteners at the intermediate support: 3

For other steel thickness or maximum installation length exceeding 7,5 m. additional calculations are needed.

Maximum allowable wind pressure/suction [kN/m²] for the length of span made of Balpol **180mm** thickness panels (Standard wall PIR panel, wall PIR panel with thermo lock, wall PIR panel with hidden fastening).

Single span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m ²] at the given span (m)													
	ULS – Ultimate Limit State	SLS – Serviceability Limit State	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5		
180	I	ULS	Pressure	-	-	4,66	3,99	3,17	2,50	2,03	1,68	1,41	1,21	1,04	0,91	
			Suction	-	-	4,66	3,99	3,49	2,75	2,23	1,85	1,56	1,33	1,15	1,00	
		L/100	Pressure	-	-	-	-	-	4,43	3,59	2,97	2,49	2,12	1,83	1,60	
			Suction	-	-	-	-	-	4,88	3,94	3,26	2,74	2,34	2,01	1,75	
		SLS	L/150	Pressure	-	-	-	-	4,94	3,95	3,20	2,63	2,17	1,81	1,52	1,29
				Suction	-	-	-	-	4,94	3,95	3,20	2,63	2,17	1,81	1,52	1,30
		L/200	Pressure	-	-	-	4,69	3,70	2,96	2,40	1,96	1,63	1,34	1,10	0,91	
			Suction	-	-	-	4,69	3,70	2,96	2,40	1,96	1,63	1,36	1,15	0,97	
		II	ULS	Pressure	-	-	4,66	3,99	3,17	2,50	2,03	1,68	1,41	1,21	1,04	0,91
				Suction	-	-	4,66	3,99	3,49	2,75	2,23	1,85	1,56	1,33	1,15	1,00
			L/100	Pressure	-	-	-	-	-	4,43	3,59	2,97	2,49	2,12	1,83	1,60
				Suction	-	-	-	-	-	4,88	3,94	3,26	2,74	2,34	2,01	1,75
	SLS		L/150	Pressure	-	-	-	-	4,94	3,95	3,20	2,63	2,17	1,81	1,52	1,29
				Suction	-	-	-	-	4,94	3,95	3,20	2,63	2,17	1,81	1,52	1,30
	L/200		Pressure	-	-	-	4,69	3,70	2,96	2,40	1,96	1,63	1,34	1,10	0,91	
			Suction	-	-	-	4,69	3,70	2,96	2,40	1,96	1,63	1,36	1,15	0,97	
	III		ULS	Pressure	-	4,91	4,09	3,49	3,06	2,50	2,03	1,68	1,41	1,21	1,04	0,91
				Suction	-	4,91	4,09	3,49	3,06	2,72	2,45	2,23	2,04	1,89	1,75	1,64
			L/100	Pressure	-	-	-	-	-	4,43	3,59	2,97	2,49	2,13	1,83	1,60
				Suction	-	-	-	-	-	4,88	3,94	3,26	2,74	2,34	2,01	1,75
		SLS	L/150	Pressure	-	-	-	-	4,94	3,95	3,20	2,63	2,17	1,81	1,52	1,29
				Suction	-	-	-	-	4,94	3,95	3,20	2,63	2,16	1,77	1,44	1,19
		L/200	Pressure	-	-	-	4,69	3,70	2,96	2,40	1,96	1,63	1,34	1,10	0,91	
			Suction	-	-	-	4,69	3,70	2,96	2,32	1,83	1,45	1,17	0,91	0,68	

External facing thickness: 0,5 mm

Internal facing thickness: 0,5 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

Minimum number of fasteners at the intermediate support: 3

For other steel thickness or maximum installation length exceeding 7,5 m. additional calculations are needed.

Maximum allowable wind pressure/suction [kN/m²] for the length of span made of Balpol **180mm** thickness panels (Standard wall PIR panel, wall PIR panel with thermo lock, wall PIR panel with hidden fastening).

Double span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m ²] at the given span (m)													
	ULS – Ultimate Limit State	SLS – Serviceability Limit State	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5		
180	I	ULS	Pressure	-	4,91	4,09	3,49	3,06	2,50	2,03	1,68	1,42	1,21	1,04	0,91	
			Suction	-	4,91	4,09	3,49	3,06	2,70	2,23	1,85	1,56	1,33	1,15	1,00	
		L/100	Pressure	-	-	-	-	4,61	3,78	2,85	2,22	1,79	1,47	1,23	1,05	
			Suction	-	-	-	-	4,66	3,53	2,67	2,10	1,69	1,40	1,18	0,99	
		SLS	L/150	Pressure	-	-	-	-	4,61	3,78	2,85	2,22	1,79	1,47	1,23	1,05
				Suction	-	-	-	-	4,66	3,53	2,67	2,10	1,69	1,40	1,17	0,99
		L/200	Pressure	-	-	-	-	4,44	3,70	2,85	2,22	1,79	1,47	1,23	1,05	
			Suction	-	-	-	-	4,44	3,53	2,67	2,10	1,69	1,40	1,17	0,99	
		II	ULS	Pressure	-	4,91	4,09	3,49	3,06	2,50	2,03	1,68	1,42	1,21	1,04	0,91
				Suction	-	4,91	4,09	3,49	3,06	2,70	2,23	1,85	1,56	1,33	1,15	1,00
			L/100	Pressure	-	-	-	-	4,61	3,78	2,85	2,22	1,79	1,47	1,23	1,05
				Suction	-	-	-	-	4,66	3,53	2,67	2,10	1,69	1,40	1,18	0,99
	SLS		L/150	Pressure	-	-	-	-	4,61	3,78	2,85	2,22	1,79	1,47	1,23	1,05
				Suction	-	-	-	-	4,66	3,53	2,67	2,10	1,69	1,40	1,17	0,99
	L/200		Pressure	-	-	-	-	4,44	3,70	2,85	2,22	1,79	1,47	1,23	1,05	
			Suction	-	-	-	-	4,44	3,53	2,67	2,10	1,69	1,40	1,17	0,99	
	III		ULS	Pressure	-	4,91	4,09	3,49	3,06	2,50	2,03	1,68	1,41	1,21	1,04	0,91
				Suction	-	4,91	4,09	3,49	3,06	2,24	1,50	1,05	0,76	0,58	0,46	0,37
			L/100	Pressure	-	-	-	-	4,61	3,78	2,85	2,22	1,79	1,47	1,23	1,05
				Suction	-	-	-	-	3,51	2,24	1,50	1,05	0,76	0,58	0,45	0,37
		SLS	L/150	Pressure	-	-	-	-	4,61	3,78	2,85	2,22	1,79	1,47	1,23	1,05
				Suction	-	-	-	-	3,51	2,24	1,50	1,05	0,76	0,58	0,45	0,37
		L/200	Pressure	-	-	-	-	4,44	3,70	2,85	2,22	1,79	1,47	1,23	1,05	
			Suction	-	-	-	-	3,51	2,24	1,50	1,06	0,76	0,58	0,46	0,37	

External facing thickness: 0,5 mm

Internal facing thickness: 0,5 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

Minimum number of fasteners at the intermediate support: 3

For other steel thickness or maximum installation length exceeding 7,5 m. additional calculations are needed.

Maximum allowable wind pressure/suction [kN/m²] for the length of span made of Balpol **200mm** thickness panels (Standard wall PIR panel, wall PIR panel with thermo lock, wall PIR panel with hidden fastening).

Single span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m ²] at the given span (m)													
	ULS – Ultimate Limit State	SLS – Serviceability Limit State	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5		
200	I	ULS	Pressure	-	4,66	3,89	3,34	2,92	2,60	2,25	1,87	1,57	1,34	1,16	1,00	
			Suction	-	4,66	3,89	3,34	2,92	2,60	2,34	2,05	1,73	1,47	1,27	1,11	
		L/100	Pressure	-	-	-	-	-	4,84	3,99	3,30	2,77	2,36	2,04	1,77	
			Suction	-	-	-	-	-	4,84	4,33	3,63	3,04	2,60	2,24	1,95	
		SLS	L/150	Pressure	-	-	-	-	4,84	3,95	3,26	2,72	2,29	1,94	1,65	1,42
				Suction	-	-	-	-	4,84	3,96	3,26	2,72	2,29	1,94	1,65	1,42
		L/200	Pressure	-	-	-	4,49	3,63	2,97	2,45	2,05	1,72	1,45	1,24	1,03	
			Suction	-	-	-	4,49	3,63	2,97	2,45	2,05	1,72	1,45	1,24	1,06	
		II	ULS	Pressure	-	4,66	3,89	3,34	2,92	2,60	2,25	1,87	1,57	1,34	1,16	1,00
				Suction	-	4,66	3,89	3,34	2,92	2,60	2,34	2,05	1,73	1,47	1,27	1,11
			L/100	Pressure	-	-	-	-	-	4,84	3,99	3,30	2,77	2,36	2,04	1,77
				Suction	-	-	-	-	-	4,84	4,33	3,63	3,04	2,60	2,24	1,95
	SLS		L/150	Pressure	-	-	-	-	4,84	3,95	3,26	2,72	2,29	1,94	1,65	1,42
				Suction	-	-	-	-	4,84	3,96	3,26	2,72	2,29	1,94	1,65	1,42
	L/200		Pressure	-	-	-	4,49	3,63	2,97	2,45	2,05	1,72	1,45	1,24	1,03	
			Suction	-	-	-	4,49	3,63	2,97	2,45	2,05	1,72	1,45	1,24	1,06	
	III		ULS	Pressure	-	4,66	3,89	3,34	2,92	2,60	2,25	1,87	1,57	1,34	1,15	1,00
				Suction	-	4,66	3,89	3,34	2,92	2,60	2,33	5,50	1,95	1,80	1,67	1,56
			L/100	Pressure	-	-	-	-	-	4,84	3,99	3,30	2,77	2,36	2,03	1,77
				Suction	-	-	-	-	-	4,84	4,33	3,63	3,04	2,60	2,24	1,95
		SLS	L/150	Pressure	-	-	-	-	4,84	3,96	3,26	2,72	2,29	1,94	1,65	1,42
				Suction	-	-	-	-	4,84	3,96	3,26	2,72	2,29	1,94	1,63	1,36
		L/200	Pressure	-	-	-	4,49	3,63	2,97	2,45	2,05	1,72	1,46	1,23	1,03	
			Suction	-	-	-	4,49	3,63	2,97	2,44	1,98	1,61	1,32	1,08	0,88	

External facing thickness: 0,5 mm

Internal facing thickness: 0,5 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

Minimum number of fasteners at the intermediate support: 3

For other steel thickness or maximum installation length exceeding 7,5 m. additional calculations are needed.

Maximum allowable wind pressure/suction [kN/m²] for the length of span made of Balpol **200mm** thickness panels (Standard wall PIR panel, wall PIR panel with thermo lock, wall PIR panel with hidden fastening).

Double span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m ²] at the given span (m)													
	ULS – Ultimate Limit State	SLS – Serviceability Limit State	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5		
200	I	ULS	Pressure	-	4,66	3,89	3,34	2,92	2,60	2,25	1,87	1,57	1,34	1,16	1,00	
			Suction	-	4,66	3,89	3,34	2,92	2,60	2,34	2,05	1,73	1,47	1,27	1,11	
		L/100	Pressure	-	-	-	-	4,47	3,93	3,51	2,77	2,20	1,79	1,48	1,25	
			Suction	-	-	-	-	4,53	3,98	3,36	2,59	2,06	1,69	1,40	1,19	
		SLS	L/150	Pressure	-	-	-	-	4,47	3,93	3,51	2,77	2,20	1,79	1,48	1,25
				Suction	-	-	-	-	4,53	3,98	3,36	2,59	2,06	1,69	1,40	1,19
		L/200	Pressure	-	-	-	4,91	4,11	3,48	2,98	2,58	2,20	1,79	1,48	1,25	
			Suction	-	-	-	4,91	4,11	3,48	2,98	2,56	2,06	1,69	1,40	1,19	
		II	ULS	Pressure	-	4,66	3,89	3,34	2,92	2,60	2,25	1,87	1,57	1,34	1,16	1,00
				Suction	-	4,66	3,89	3,34	2,92	2,60	2,34	2,05	1,73	1,47	1,27	1,11
			L/100	Pressure	-	-	-	-	4,47	3,93	3,51	2,77	2,20	1,79	1,48	1,25
				Suction	-	-	-	-	4,53	3,98	3,36	2,59	2,06	1,69	1,40	1,19
	SLS		L/150	Pressure	-	-	-	-	4,47	3,93	3,51	2,77	2,20	1,79	1,48	1,25
				Suction	-	-	-	-	4,53	3,98	3,36	2,59	2,06	1,69	1,40	1,19
	L/200		Pressure	-	-	-	4,91	4,11	3,48	2,98	2,58	2,20	1,79	1,48	1,25	
			Suction	-	-	-	4,91	4,11	3,48	2,98	2,56	2,06	1,69	1,40	1,19	
	III		ULS	Pressure	-	4,66	3,89	3,34	2,92	2,59	2,25	1,87	1,57	1,34	1,16	1,00
				Suction	-	4,66	3,89	3,34	2,92	2,59	2,27	1,61	1,17	0,87	0,66	0,51
			L/100	Pressure	-	-	-	-	4,47	3,93	3,51	2,77	2,20	1,79	1,48	1,25
				Suction	-	-	-	-	4,37	3,45	2,31	1,61	1,17	0,87	0,67	0,51
		SLS	L/150	Pressure	-	-	-	-	4,47	3,93	3,51	2,77	2,20	1,79	1,48	1,25
				Suction	-	-	-	-	4,37	3,45	2,31	1,61	1,17	0,87	0,67	0,51
		L/200	Pressure	-	-	-	4,91	4,11	3,48	2,98	2,58	2,20	1,79	1,48	1,25	
			Suction	-	-	-	4,91	4,11	3,45	2,31	1,61	1,17	0,87	0,67	0,51	

External facing thickness: 0,5 mm

Internal facing thickness: 0,5 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

Minimum number of fasteners at the intermediate support: 3

For other steel thickness or maximum installation length exceeding 7,5 m. additional calculations are needed.