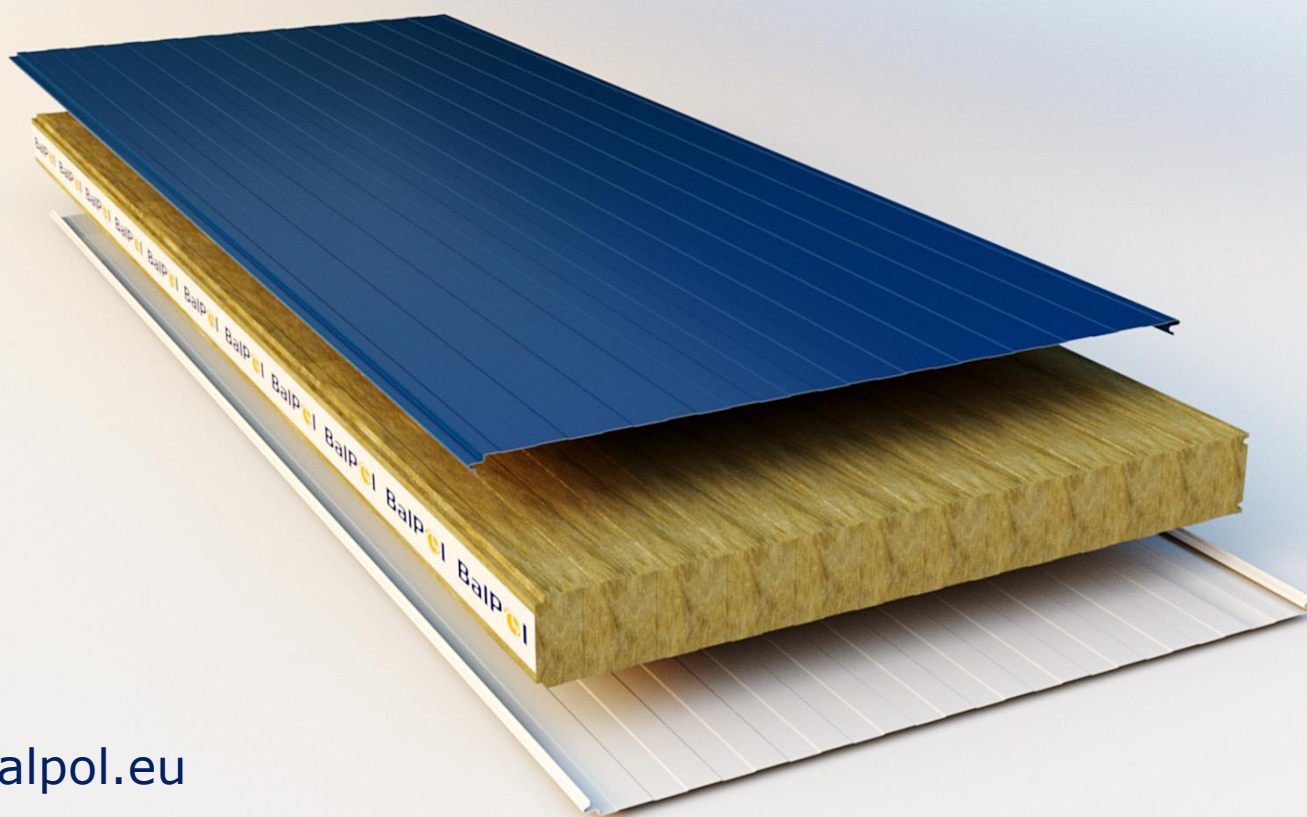


## BALPOL MULTI-LAYER SANDWICH PANELS

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MINERAL WOOL CORE

### LOAD SPAN TABLES



Maximum allowable wind pressure/suction [kN/m<sup>2</sup>] for the length of span made of Balpol **50mm** thickness panels (Standard wall panel MW with mineral wool core).

## Single span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m <sup>2</sup> ] 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		
<b>50</b>	<b>I</b>	ULS	Pressure	0,97	0,77	0,66	0,57	0,48	0,41	0,35	0,29	-	-	-	-	
			Suction	0,97	0,77	0,66	0,57	0,48	0,44	0,39	0,34	-	-	-	-	
		L/100	Pressure	1,81	1,45	1,21	1,03	0,85	0,65	0,46	0,33	-	-	-	-	
			Suction	1,81	1,45	1,21	1,03	0,87	0,72	0,54	0,42	0,32	-	-	-	
		SLS	L/150	Pressure	1,81	1,44	1,11	0,71	0,40	-	-	-	-	-	-	-
				Suction	1,81	1,45	1,17	0,84	0,58	0,41	0,26	-	-	-	-	-
		L/200	Pressure	1,81	1,13	0,57	-	-	-	-	-	-	-	-	-	
			Suction	1,81	1,29	0,83	0,53	0,30	-	-	-	-	-	-	-	
		<b>II</b>	ULS	Pressure	0,97	0,77	0,66	0,57	0,48	0,41	0,35	0,29	-	-	-	-
				Suction	0,97	0,77	0,66	0,57	0,48	0,44	0,39	0,34	-	-	-	-
			L/100	Pressure	1,81	1,45	1,21	1,03	0,85	0,65	0,46	0,33	-	-	-	-
				Suction	1,81	1,45	1,21	1,03	0,87	0,72	0,54	0,42	0,32	-	-	-
	SLS		L/150	Pressure	1,81	1,44	1,11	0,71	0,40	-	-	-	-	-	-	
				Suction	1,81	1,45	1,17	0,84	0,58	0,41	0,26	-	-	-	-	
	L/200		Pressure	1,81	1,13	0,57	-	-	-	-	-	-	-	-	-	
			Suction	1,81	1,29	0,83	0,53	0,30	-	-	-	-	-	-	-	
	<b>III</b>		ULS	Pressure	0,97	0,77	0,66	0,57	0,48	0,41	0,35	0,29	-	-	-	-
				Suction	0,97	0,78	0,67	0,57	0,46	0,34	-	-	-	-	-	-
			L/100	Pressure	1,81	1,45	1,21	1,03	0,85	0,66	0,47	0,32	-	-	-	-
				Suction	1,81	1,45	1,21	1,03	0,71	0,41	-	-	-	-	-	-
		SLS	L/150	Pressure	1,81	1,44	1,11	0,71	0,26	-	-	-	-	-	-	
				Suction	1,81	1,38	0,69	0,26	-	-	-	-	-	-	-	
		L/200	Pressure	1,81	1,13	0,50	-	-	-	-	-	-	-	-	-	
			Suction	1,51	0,50	-	-	-	-	-	-	-	-	-	-	

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: 60 mm

Minimum intermediate support width: 120 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/m<sup>2</sup>] for the length of span made of Balpol **50mm** thickness panels (Standard wall panel with mineral wool core).

## Double span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m <sup>2</sup> ] 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		
<b>50</b>	<b>I</b>	ULS	Pressure	0,97	0,77	0,66	0,57	0,49	0,46	0,42	0,39	0,35	0,32	0,28	-	
			Suction	0,97	0,77	0,66	0,57	0,49	0,46	0,42	0,39	0,35	0,32	0,28	-	
		L/100	Pressure	1,27	1,02	0,87	0,74	0,67	0,60	0,54	0,47	0,42	0,37	0,31	-	
			Suction	1,35	1,07	0,90	0,77	0,69	0,62	0,55	0,48	0,42	0,36	0,30	-	
			SLS L/150	Pressure	1,27	1,02	0,87	0,74	0,67	0,60	0,53	0,47	0,42	0,36	0,30	-
				Suction	1,35	1,08	0,90	0,77	0,69	0,62	0,55	0,48	0,42	0,36	0,30	-
		L/200	Pressure	1,27	1,02	0,87	0,74	0,65	0,56	0,48	0,40	0,32	-	-	-	
			Suction	1,35	1,07	0,90	0,77	0,66	0,57	0,48	0,41	0,34	0,27	-	-	
		<b>II</b>	ULS	Pressure	0,97	0,77	0,66	0,57	0,49	0,46	0,42	0,39	0,35	0,32	0,28	-
				Suction	0,97	0,77	0,66	0,57	0,49	0,46	0,42	0,39	0,35	0,32	0,28	-
			L/100	Pressure	1,27	1,02	0,87	0,74	0,67	0,60	0,54	0,47	0,42	0,37	0,31	-
				Suction	1,35	1,07	0,90	0,77	0,69	0,62	0,55	0,48	0,42	0,36	0,30	-
	SLS L/150			Pressure	1,27	1,02	0,87	0,74	0,67	0,60	0,53	0,47	0,42	0,36	0,30	-
				Suction	1,35	1,08	0,90	0,77	0,69	0,62	0,55	0,48	0,42	0,36	0,30	-
	L/200		Pressure	1,27	1,02	0,87	0,74	0,65	0,56	0,48	0,40	0,32	-	-	-	
			Suction	1,35	1,07	0,90	0,77	0,66	0,57	0,48	0,41	0,34	0,27	-	-	
	<b>III</b>		ULS	Pressure	0,97	0,78	0,66	0,57	0,49	0,45	0,42	0,39	0,35	0,32	0,28	-
				Suction	0,97	0,78	0,65	0,53	0,38	-	-	-	-	-	-	-
			L/100	Pressure	1,27	1,02	0,87	0,74	0,67	0,60	0,53	0,47	0,42	0,36	0,31	0,26
				Suction	1,18	0,95	0,81	0,57	0,37	-	-	-	-	-	-	-
		SLS L/150		Pressure	1,27	1,02	0,87	0,74	0,67	0,60	0,53	0,47	0,41	0,36	0,30	-
				Suction	1,18	0,96	0,81	0,57	0,38	-	-	-	-	-	-	-
		L/200	Pressure	1,27	1,02	0,87	0,74	0,65	0,56	0,48	0,40	0,32	-	-	-	
			Suction	1,18	0,96	0,81	0,57	0,38	-	-	-	-	-	-	-	

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: 60 mm

Minimum intermediate support width: 120 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/m<sup>2</sup>] for the length of span made of Balpol **80mm** thickness panels (Standard wall panel with mineral wool core).

## Single span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m <sup>2</sup> ] 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		
<b>80</b>	<b>I</b>	ULS	Pressure	1,55	1,24	1,04	0,90	0,78	0,70	0,64	0,58	0,52	0,47	0,41	0,36	
			Suction	1,55	1,24	1,04	0,90	0,78	0,70	0,64	0,58	0,52	0,47	0,43	0,38	
		L/100	Pressure	2,90	2,32	1,93	1,66	1,45	1,29	1,14	0,99	0,78	0,63	0,49	0,41	
			Suction	2,90	2,32	1,93	1,66	1,45	1,30	1,14	0,99	0,80	0,66	0,54	0,45	
		SLS L/150	Pressure	2,90	2,32	1,93	1,66	1,35	0,99	0,73	0,55	0,40	0,26	-	-	
			Suction	2,90	2,32	1,93	1,66	1,39	1,07	0,83	0,65	0,49	0,41	0,32	-	
		L/200	Pressure	2,90	2,32	1,82	1,26	0,88	0,58	0,35	-	-	-	-	-	
			Suction	2,90	2,32	1,88	1,39	1,01	0,74	0,56	0,41	0,29	-	-	-	
		<b>II</b>	ULS	Pressure	1,55	1,24	1,04	0,90	0,78	0,70	0,64	0,58	0,52	0,47	0,41	0,36
				Suction	1,55	1,24	1,04	0,90	0,78	0,70	0,64	0,58	0,52	0,47	0,43	0,38
			L/100	Pressure	2,90	2,32	1,93	1,66	1,45	1,29	1,14	0,99	0,78	0,63	0,49	0,41
				Suction	2,90	2,32	1,93	1,66	1,45	1,30	1,14	0,99	0,80	0,66	0,54	0,45
	SLS L/150		Pressure	2,90	2,32	1,93	1,66	1,35	0,99	0,73	0,55	0,40	0,26	-	-	
			Suction	2,90	2,32	1,93	1,66	1,39	1,07	0,83	0,65	0,49	0,41	0,32	-	
	L/200		Pressure	2,90	2,32	1,82	1,26	0,88	0,58	0,35	-	-	-	-	-	
			Suction	2,90	2,32	1,88	1,39	1,01	0,74	0,56	0,41	0,29	-	-	-	
	<b>III</b>		ULS	Pressure	1,55	1,24	1,04	0,90	0,78	0,70	0,64	0,58	0,52	0,47	0,41	0,36
				Suction	1,55	1,24	1,04	0,90	0,78	0,71	0,64	0,58	0,52	0,43	0,32	-
			L/100	Pressure	2,90	2,32	1,93	1,66	1,45	1,29	1,14	0,99	0,78	0,63	0,49	0,41
				Suction	2,90	2,32	1,93	1,66	1,45	1,29	1,10	0,88	0,66	0,47	0,34	-
		SLS L/150	Pressure	2,90	2,32	1,93	1,66	1,35	0,99	0,73	0,55	0,38	-	-	-	
			Suction	2,90	2,32	1,93	1,60	1,15	0,72	0,42	-	-	-	-	-	
		L/200	Pressure	2,90	2,32	1,82	1,26	0,88	0,58	-	-	-	-	-	-	
			Suction	2,90	2,32	1,56	0,85	0,40	-	-	-	-	-	-	-	

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: 60 mm

Minimum intermediate support width: 120 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/m<sup>2</sup>] for the length of span made of Balpol **80mm** thickness panels (Standard wall panel with mineral wool core).

## Double span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m <sup>2</sup> ] 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		
<b>80</b>	<b>I</b>	ULS	Pressure	1,55	1,24	1,04	0,90	0,78	0,70	0,64	0,58	0,52	0,47	0,44	0,40	
			Suction	1,55	1,24	1,04	0,90	0,78	0,70	0,64	0,58	0,52	0,47	0,44	0,40	
		L/100	Pressure	2,18	1,72	1,43	1,22	1,07	0,96	0,87	0,79	0,69	0,59	0,49	0,45	
			Suction	2,27	1,78	1,48	1,26	1,11	0,98	0,88	0,79	0,68	0,57	0,48	0,43	
			SLS L/150	Pressure	2,18	1,72	1,43	1,22	1,07	0,96	0,87	0,79	0,69	0,59	0,50	0,44
				Suction	2,27	1,78	1,47	1,26	1,11	0,98	0,88	0,78	0,68	0,57	0,48	0,43
		L/200	Pressure	2,18	1,72	1,43	1,22	1,07	0,96	0,87	0,78	0,68	0,58	0,49	0,43	
			Suction	2,27	1,78	1,47	1,26	1,11	0,98	0,88	0,79	0,68	0,57	0,48	0,43	
		<b>II</b>	ULS	Pressure	1,55	1,24	1,04	0,90	0,78	0,70	0,64	0,58	0,52	0,47	0,44	0,40
				Suction	1,55	1,24	1,04	0,90	0,78	0,70	0,64	0,58	0,52	0,47	0,44	0,40
			L/100	Pressure	2,18	1,72	1,43	1,22	1,07	0,96	0,87	0,79	0,69	0,59	0,49	0,45
				Suction	2,27	1,78	1,48	1,26	1,11	0,98	0,88	0,79	0,68	0,57	0,48	0,43
	SLS L/150			Pressure	2,18	1,72	1,43	1,22	1,07	0,96	0,87	0,79	0,69	0,59	0,50	0,44
				Suction	2,27	1,78	1,47	1,26	1,11	0,98	0,88	0,78	0,68	0,57	0,48	0,43
	L/200		Pressure	2,18	1,72	1,43	1,22	1,07	0,96	0,87	0,78	0,68	0,58	0,49	0,43	
			Suction	2,27	1,78	1,47	1,26	1,11	0,98	0,88	0,79	0,68	0,57	0,48	0,43	
	<b>III</b>		ULS	Pressure	1,55	1,24	1,04	0,90	0,78	0,70	0,64	0,58	0,52	0,47	0,44	0,40
				Suction	1,55	1,24	1,04	0,90	0,77	0,54	0,39	0,27	-	-	-	-
			L/100	Pressure	2,18	1,72	1,43	1,22	1,07	0,96	0,87	0,79	0,69	0,59	0,49	0,44
				Suction	2,04	1,61	1,35	1,12	0,82	0,54	0,39	0,26	-	-	-	-
		SLS L/150		Pressure	2,18	1,72	1,43	1,22	1,07	0,96	0,87	0,79	0,69	0,59	0,49	0,45
				Suction	2,04	1,61	1,34	1,12	0,82	0,54	0,39	0,27	-	-	-	-
		L/200	Pressure	2,18	1,72	1,43	1,22	1,07	0,96	0,87	0,78	0,68	0,58	0,49	0,43	
			Suction	2,04	1,61	1,35	1,12	0,82	0,54	0,39	0,27	-	-	-	-	

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: 60 mm

Minimum intermediate support width: 120 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/m<sup>2</sup>] for the length of span made of Balpol **100mm** thickness panels (Standard wall panel with mineral wool core).

## Single span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m <sup>2</sup> ] 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		
<b>100</b>	<b>I</b>	ULS	Pressure	1,94	1,55	1,30	1,12	0,97	0,88	0,78	0,71	0,66	0,61	0,55	0,50	
			Suction	1,94	1,55	1,30	1,12	0,97	0,88	0,78	0,72	0,67	0,62	0,57	0,52	
		L/100	Pressure	3,63	2,90	2,42	2,07	1,82	1,62	1,45	1,32	1,16	0,97	0,80	0,66	
			Suction	3,63	2,90	2,42	2,07	1,82	1,62	1,45	1,32	1,16	0,97	0,81	0,68	
		SLS L/150	Pressure	3,63	2,90	2,42	2,08	1,81	1,52	1,18	0,91	0,71	0,57	0,44	0,33	
			Suction	3,63	2,90	2,42	2,07	1,81	1,52	1,21	0,97	0,79	0,64	0,51	0,43	
		L/200	Pressure	3,63	2,90	2,42	1,93	1,40	1,04	0,77	0,55	0,38	-	-	-	
			Suction	3,63	2,90	2,42	1,94	1,48	1,15	0,89	0,69	0,53	0,43	0,33	-	
		<b>II</b>	ULS	Pressure	1,94	1,55	1,30	1,12	0,97	0,88	0,78	0,71	0,66	0,61	0,55	0,50
				Suction	1,94	1,55	1,30	1,12	0,97	0,88	0,78	0,72	0,67	0,62	0,57	0,52
			L/100	Pressure	3,63	2,90	2,42	2,07	1,82	1,62	1,45	1,32	1,16	0,97	0,80	0,66
				Suction	3,63	2,90	2,42	2,07	1,82	1,62	1,45	1,32	1,16	0,97	0,81	0,68
	SLS L/150		Pressure	3,63	2,90	2,42	2,08	1,81	1,52	1,18	0,91	0,71	0,57	0,44	0,33	
			Suction	3,63	2,90	2,42	2,07	1,81	1,52	1,21	0,97	0,79	0,64	0,51	0,43	
	L/200		Pressure	3,63	2,90	2,42	1,93	1,40	1,04	0,77	0,55	0,38	-	-	-	
			Suction	3,63	2,90	2,42	1,94	1,48	1,15	0,89	0,69	0,53	0,43	0,33	-	
	<b>III</b>		ULS	Pressure	1,94	1,55	1,30	1,12	0,97	0,88	0,78	0,71	0,66	0,60	0,55	0,50
				Suction	1,94	1,55	1,30	1,12	0,97	0,88	0,78	0,72	0,67	0,62	0,57	0,52
			L/100	Pressure	3,63	2,90	2,42	2,07	1,82	1,62	1,45	1,33	1,16	0,97	0,80	0,66
				Suction	3,63	2,90	2,42	2,07	1,81	1,62	1,45	1,32	1,11	0,88	0,70	0,56
		SLS L/150	Pressure	3,63	2,90	2,42	2,07	1,81	1,52	1,18	0,91	0,71	0,56	0,44	0,33	
			Suction	3,63	2,90	2,42	2,07	1,79	1,36	1,01	0,69	0,45	0,28	-	-	
		L/200	Pressure	3,63	2,90	2,42	1,93	1,40	1,04	0,77	0,55	0,27	-	-	-	
			Suction	3,63	2,90	2,37	1,68	1,11	0,66	0,35	-	-	-	-	-	

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: 60 mm

Minimum intermediate support width: 120 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/m<sup>2</sup>] for the length of span made of Balpol **100mm** thickness panels (Standard wall panel with mineral wool core).

## Double span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m <sup>2</sup> ] 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			
<b>100</b>	<b>I</b>	ULS	Pressure	1,94	1,55	1,30	1,12	0,97	0,88	0,78	0,71	0,66	0,61	0,55	0,50		
			Suction	1,94	1,55	1,30	1,12	0,97	0,88	0,78	0,71	0,66	0,61	0,55	0,50		
		L/100	Pressure	2,82	2,20	1,82	1,55	1,36	1,21	1,09	0,98	0,86	0,75	0,65	0,55		
			Suction	2,92	2,28	1,88	1,61	1,40	1,24	1,12	1,01	0,86	0,72	0,62	0,52		
			SLS L/150	Pressure	2,82	2,20	1,82	1,55	1,36	1,21	1,09	0,98	0,86	0,75	0,65	0,55	
				Suction	2,92	2,28	1,88	1,60	1,40	1,23	1,12	1,01	0,86	0,72	0,62	0,52	
		L/200	Pressure	2,82	2,20	1,82	1,55	1,36	1,21	1,09	0,98	0,86	0,75	0,65	0,55		
			Suction	2,92	2,28	1,88	1,60	1,40	1,23	1,12	1,01	0,86	0,72	0,62	0,52		
			ULS	Pressure	1,94	1,55	1,30	1,12	0,97	0,88	0,78	0,71	0,66	0,61	0,55	0,50	
				Suction	1,94	1,55	1,30	1,12	0,97	0,88	0,78	0,71	0,66	0,61	0,55	0,50	
		<b>II</b>	L/100	Pressure	2,82	2,20	1,82	1,55	1,36	1,21	1,09	0,98	0,86	0,75	0,65	0,55	
				Suction	2,92	2,28	1,88	1,61	1,40	1,24	1,12	1,01	0,86	0,72	0,62	0,52	
	SLS L/150			Pressure	2,82	2,20	1,82	1,55	1,36	1,21	1,09	0,98	0,86	0,75	0,65	0,55	
				Suction	2,92	2,28	1,88	1,60	1,40	1,23	1,12	1,01	0,86	0,72	0,62	0,52	
	L/200		Pressure	2,82	2,20	1,82	1,55	1,36	1,21	1,09	0,98	0,86	0,75	0,65	0,55		
			Suction	2,92	2,28	1,88	1,60	1,40	1,23	1,12	1,01	0,86	0,72	0,62	0,52		
			ULS	Pressure	1,94	1,55	1,30	1,12	0,97	0,88	0,78	0,71	0,66	0,61	0,55	0,50	
				Suction	1,94	1,55	1,30	1,12	0,95	0,78	0,55	0,41	0,30	-	-	-	
	<b>III</b>		L/100	Pressure	2,82	2,20	1,82	1,55	1,36	1,21	1,09	0,98	0,86	0,75	0,65	0,55	
				Suction	2,65	2,08	1,72	1,47	1,24	0,81	0,55	0,41	0,30	-	-	-	
				SLS L/150	Pressure	2,82	2,20	1,82	1,55	1,36	1,21	1,09	0,98	0,86	0,75	0,65	0,55
					Suction	2,65	2,08	1,72	1,46	1,24	0,81	0,55	0,41	0,30	-	-	-
		L/200	Pressure	2,82	2,20	1,82	1,55	1,36	1,21	1,09	0,98	0,86	0,75	0,65	0,55		
			Suction	2,65	2,08	1,72	1,46	1,24	0,81	0,55	0,41	0,30	-	-	-		

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: 60 mm

Minimum intermediate support width: 120 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/m<sup>2</sup>] for the length of span made of Balpol **120mm** thickness panels (Standard wall panel with mineral wool core).

## Single span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m <sup>2</sup> ] 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		
<b>120</b>	<b>I</b>	ULS	Pressure	2,33	1,87	1,55	1,34	1,17	1,04	0,94	0,86	0,78	0,71	0,65	0,59	
			Suction	2,33	1,87	1,55	1,34	1,17	1,04	0,94	0,86	0,78	0,72	0,67	0,61	
		L/100	Pressure	4,36	3,48	2,90	2,49	2,18	1,94	1,74	1,59	1,43	1,26	1,06	0,90	
			Suction	4,36	3,48	2,90	2,49	2,18	1,94	1,74	1,59	1,43	1,26	1,06	0,90	
			SLS L/150	Pressure	4,36	3,47	2,90	2,49	2,18	1,88	1,52	1,23	0,99	0,80	0,65	0,53
				Suction	4,36	3,47	2,90	2,49	2,18	1,88	1,52	1,24	1,02	0,85	0,71	0,60
		L/200	Pressure	4,36	3,48	2,89	2,27	1,79	1,38	1,06	0,83	0,65	0,49	0,37	-	
			Suction	4,36	3,48	2,89	2,27	1,79	1,42	1,14	0,92	0,74	0,61	0,49	0,41	
		<b>II</b>	ULS	Pressure	2,33	1,87	1,55	1,34	1,17	1,04	0,94	0,86	0,78	0,71	0,65	0,59
				Suction	2,33	1,87	1,55	1,34	1,17	1,04	0,94	0,86	0,78	0,72	0,67	0,61
			L/100	Pressure	4,36	3,48	2,90	2,49	2,18	1,94	1,74	1,59	1,43	1,26	1,06	0,90
				Suction	4,36	3,48	2,90	2,49	2,18	1,94	1,74	1,59	1,43	1,26	1,06	0,90
	SLS L/150			Pressure	4,36	3,47	2,90	2,49	2,18	1,88	1,52	1,23	0,99	0,80	0,65	0,53
				Suction	4,36	3,47	2,90	2,49	2,18	1,88	1,52	1,24	1,02	0,85	0,71	0,60
	L/200		Pressure	4,36	3,48	2,89	2,27	1,79	1,38	1,06	0,83	0,65	0,49	0,37	-	
			Suction	4,36	3,48	2,89	2,27	1,79	1,42	1,14	0,92	0,74	0,61	0,49	0,41	
	<b>III</b>		ULS	Pressure	2,33	1,87	1,55	1,34	1,17	1,04	0,94	0,86	0,78	0,71	0,65	0,59
				Suction	2,33	1,87	1,55	1,34	1,17	1,04	0,94	0,86	0,78	0,72	0,67	0,61
			L/100	Pressure	4,36	3,48	2,90	2,49	2,18	1,94	1,74	1,59	1,43	1,26	1,06	0,90
				Suction	4,36	3,48	2,90	2,49	2,18	1,94	1,74	1,59	1,42	1,23	1,00	0,83
		SLS L/150		Pressure	4,36	3,48	2,90	2,49	2,18	1,88	1,52	1,23	0,99	0,80	0,65	0,53
				Suction	4,36	3,48	2,90	2,49	2,17	1,81	1,40	1,09	0,84	0,62	0,44	0,31
		L/200	Pressure	4,36	3,48	2,89	2,27	1,79	1,38	1,06	0,83	0,65	0,48	0,32	-	
			Suction	4,36	3,48	2,88	2,16	1,59	1,17	0,79	0,49	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: 60 mm

Minimum intermediate support width: 120 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/m<sup>2</sup>] for the length of span made of Balpol **120mm** thickness panels (Standard wall panel with mineral wool core).

## Double span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m <sup>2</sup> ] 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		
<b>120</b>	<b>I</b>	ULS	Pressure	2,33	1,87	1,56	1,34	1,17	1,04	0,94	0,86	0,78	0,71	0,65	0,59	
			Suction	2,33	1,87	1,56	1,34	1,17	1,04	0,94	0,86	0,78	0,71	0,66	0,60	
		L/100	Pressure	3,53	2,75	2,25	1,92	1,67	1,47	1,33	1,20	1,08	0,96	0,80	0,69	
			Suction	3,65	2,84	2,32	1,97	1,71	1,51	1,36	1,22	1,07	0,91	0,76	0,67	
			SLS L/150	Pressure	3,53	2,75	2,25	1,91	1,67	1,47	1,33	1,20	1,08	0,96	0,80	0,69
				Suction	3,65	2,84	2,32	1,97	1,71	1,51	1,36	1,22	1,06	0,91	0,76	0,67
		L/200	Pressure	3,53	2,75	2,25	1,91	1,67	1,47	1,33	1,20	1,08	0,96	0,80	0,69	
			Suction	3,65	2,84	2,32	1,97	1,71	1,51	1,36	1,22	1,06	0,91	0,76	0,66	
		<b>II</b>	ULS	Pressure	2,33	1,87	1,56	1,34	1,17	1,04	0,94	0,86	0,78	0,71	0,65	0,59
				Suction	2,33	1,87	1,56	1,34	1,17	1,04	0,94	0,86	0,78	0,71	0,66	0,60
			L/100	Pressure	3,53	2,75	2,25	1,92	1,67	1,47	1,33	1,20	1,08	0,96	0,80	0,69
				Suction	3,65	2,84	2,32	1,97	1,71	1,51	1,36	1,22	1,07	0,91	0,76	0,67
	SLS L/150			Pressure	3,53	2,75	2,25	1,91	1,67	1,47	1,33	1,20	1,08	0,96	0,80	0,69
				Suction	3,65	2,84	2,32	1,97	1,71	1,51	1,36	1,22	1,06	0,91	0,76	0,67
	L/200		Pressure	3,53	2,75	2,25	1,91	1,67	1,47	1,33	1,20	1,08	0,96	0,80	0,69	
			Suction	3,65	2,84	2,32	1,97	1,71	1,51	1,36	1,22	1,06	0,91	0,76	0,66	
	<b>III</b>		ULS	Pressure	2,33	1,87	1,55	1,34	1,17	1,04	0,94	0,86	0,78	0,71	0,65	0,59
				Suction	2,33	1,87	1,55	1,34	1,17	1,04	0,84	0,63	0,46	0,37	0,26	-
			L/100	Pressure	3,53	2,75	2,25	1,91	1,67	1,47	1,33	1,20	1,08	0,96	0,80	0,69
				Suction	3,37	2,63	2,15	1,83	1,60	1,29	0,89	0,63	0,46	0,36	0,26	-
		SLS L/150		Pressure	3,53	2,75	2,25	1,91	1,67	1,47	1,33	1,20	1,08	0,96	0,81	0,69
				Suction	3,37	2,63	2,15	1,83	1,60	1,29	0,89	0,63	0,46	0,36	0,26	-
		L/200	Pressure	3,53	2,75	2,25	1,91	1,67	1,47	1,33	1,20	1,08	0,95	0,81	0,69	
			Suction	3,37	2,63	2,15	1,83	1,60	1,29	0,89	0,63	0,46	0,36	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: 60 mm

Minimum intermediate support width: 120 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/m<sup>2</sup>] for the length of span made of Balpol **150mm** thickness panels (Standard wall panel with mineral wool core).

## Single span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m <sup>2</sup> ] 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		
<b>150</b>	<b>I</b>	ULS	Pressure	2,92	2,34	1,94	1,67	1,46	1,30	1,17	1,07	0,97	0,90	0,82	0,75	
			Suction	2,92	2,34	1,94	1,67	1,46	1,30	1,17	1,07	0,97	0,91	0,84	0,78	
		L/100	Pressure	-	4,36	3,63	3,12	2,72	2,42	2,18	1,98	1,82	1,66	1,51	1,31	
			Suction	-	4,36	3,63	3,12	2,72	2,42	2,18	1,98	1,82	1,67	1,52	1,32	
			SLS L/150	Pressure	-	4,36	3,63	3,12	2,72	2,42	2,12	1,76	1,46	1,22	1,02	0,86
				Suction	-	4,36	3,63	3,12	2,72	2,42	2,12	1,76	1,46	1,22	1,03	0,89
		L/200	Pressure	-	4,36	3,63	3,07	2,45	1,97	1,61	1,29	1,04	0,85	0,69	0,57	
			Suction	-	4,36	3,63	3,07	2,45	1,97	1,61	1,32	1,10	0,92	0,77	0,65	
		<b>II</b>	ULS	Pressure	2,92	2,34	1,94	1,67	1,46	1,30	1,17	1,07	0,97	0,90	0,82	0,75
				Suction	2,92	2,34	1,94	1,67	1,46	1,30	1,17	1,07	0,97	0,91	0,84	0,78
			L/100	Pressure	-	4,36	3,63	3,12	2,72	2,42	2,18	1,98	1,82	1,66	1,51	1,31
				Suction	-	4,36	3,63	3,12	2,72	2,42	2,18	1,98	1,82	1,67	1,52	1,32
	SLS L/150			Pressure	-	4,36	3,63	3,12	2,72	2,42	2,12	1,76	1,46	1,22	1,02	0,86
				Suction	-	4,36	3,63	3,12	2,72	2,42	2,12	1,76	1,46	1,22	1,03	0,89
	L/200		Pressure	-	4,36	3,63	3,07	2,45	1,97	1,61	1,29	1,04	0,85	0,69	0,57	
			Suction	-	4,36	3,63	3,07	2,45	1,97	1,61	1,32	1,10	0,92	0,77	0,65	
	<b>III</b>		ULS	Pressure	2,92	2,34	1,94	1,67	1,46	1,30	1,17	1,07	0,97	0,90	0,82	0,75
				Suction	2,92	2,34	1,94	1,67	1,46	1,30	1,17	1,07	0,97	0,91	0,84	0,78
			L/100	Pressure	-	4,36	3,63	3,12	2,72	2,42	2,18	1,98	1,81	1,66	1,51	1,31
				Suction	-	4,36	3,63	3,12	2,72	2,42	2,18	1,98	1,81	1,67	1,52	1,31
		SLS L/150		Pressure	-	4,36	3,63	3,12	2,72	2,42	2,12	1,76	1,46	1,22	1,02	0,86
				Suction	-	4,36	3,63	3,12	2,72	2,42	2,12	1,70	1,37	1,11	0,90	0,73
		L/200	Pressure	-	4,36	3,63	3,07	2,45	1,97	1,61	1,29	1,04	0,85	0,69	0,57	
			Suction	-	4,36	3,63	3,07	2,40	1,85	1,43	1,12	0,83	0,58	0,40	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: 60 mm

Minimum intermediate support width: 120 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/m<sup>2</sup>] for the length of span made of Balpol **150mm** thickness panels (Standard wall panel with mineral wool core).

## Double span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m <sup>2</sup> ] 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		
<b>150</b>	<b>I</b>	ULS	Pressure	2,92	2,34	1,94	1,67	1,46	1,30	1,17	1,07	0,97	0,90	0,82	0,75	
			Suction	2,92	2,34	1,94	1,67	1,46	1,30	1,17	1,07	0,98	0,91	0,85	0,78	
		L/100	Pressure	4,54	3,54	2,89	2,44	2,12	1,87	1,68	1,52	1,38	1,24	1,04	0,89	
			Suction	4,66	3,63	2,96	2,50	2,17	1,92	1,71	1,56	1,38	1,18	0,99	0,85	
		SLS	L/150	Pressure	4,54	3,54	2,89	2,44	2,12	1,87	1,68	1,52	1,38	1,24	1,04	0,89
				Suction	4,66	3,63	2,96	2,50	2,17	1,92	1,71	1,56	1,38	1,19	0,99	0,85
		L/200	Pressure	4,54	3,54	2,89	2,44	2,12	1,87	1,68	1,52	1,38	1,24	1,04	0,89	
			Suction	4,66	3,63	2,96	2,50	2,17	1,92	1,71	1,56	1,38	1,18	0,99	0,85	
		<b>II</b>	ULS	Pressure	2,92	2,34	1,94	1,67	1,46	1,30	1,17	1,07	0,97	0,90	0,82	0,75
				Suction	2,92	2,34	1,94	1,67	1,46	1,30	1,17	1,07	0,98	0,91	0,85	0,78
			L/100	Pressure	4,54	3,54	2,89	2,44	2,12	1,87	1,68	1,52	1,38	1,24	1,04	0,89
				Suction	4,66	3,63	2,96	2,50	2,17	1,92	1,71	1,56	1,38	1,18	0,99	0,85
	SLS		L/150	Pressure	4,54	3,54	2,89	2,44	2,12	1,87	1,68	1,52	1,38	1,24	1,04	0,89
				Suction	4,66	3,63	2,96	2,50	2,17	1,92	1,71	1,56	1,38	1,19	0,99	0,85
	L/200		Pressure	4,54	3,54	2,89	2,44	2,12	1,87	1,68	1,52	1,38	1,24	1,04	0,89	
			Suction	4,66	3,63	2,96	2,50	2,17	1,92	1,71	1,56	1,38	1,18	0,99	0,85	
	<b>III</b>		ULS	Pressure	2,92	2,34	1,94	1,67	1,46	1,30	1,17	1,07	0,97	0,90	0,82	0,75
				Suction	2,92	2,34	1,94	1,67	1,46	1,30	1,13	0,94	0,69	0,50	0,41	0,32
			L/100	Pressure	4,54	3,54	2,89	2,44	2,12	1,87	1,68	1,52	1,38	1,24	1,04	0,89
				Suction	4,38	3,38	2,76	2,34	2,03	1,80	1,34	0,94	0,69	0,50	0,41	0,32
		SLS	L/150	Pressure	4,54	3,54	2,89	2,44	2,12	1,87	1,68	1,52	1,38	1,24	1,04	0,89
				Suction	4,38	3,38	2,76	2,34	2,03	1,80	1,34	0,94	0,69	0,50	0,41	0,32
		L/200	Pressure	4,54	3,54	2,89	2,44	2,12	1,87	1,68	1,52	1,38	1,24	1,04	0,89	
			Suction	4,38	3,38	2,76	2,34	2,03	1,80	1,34	0,94	0,69	0,51	0,41	0,33	

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: 60 mm

Minimum intermediate support width: 120 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/m<sup>2</sup>] for the length of span made of Balpol **200mm** thickness panels (Standard wall panel with mineral wool core).

## Single span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m <sup>2</sup> ] 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		
<b>200</b>	<b>I</b>	ULS	Pressure	3,89	3,11	2,59	2,22	1,94	1,73	1,56	1,42	1,30	1,20	1,10	1,00	
			Suction	3,89	3,11	2,59	2,22	1,94	1,73	1,56	1,42	1,30	1,20	1,12	1,04	
		L/100	Pressure	-	-	4,85	4,15	3,63	3,23	2,91	2,65	2,42	2,23	2,02	1,77	
			Suction	-	-	4,85	4,15	3,63	3,23	2,91	2,65	2,42	2,23	2,08	1,90	
			SLS L/150	Pressure	-	-	4,85	4,15	3,63	3,23	2,91	2,63	2,29	1,94	1,65	1,42
				Suction	-	-	4,85	4,15	3,63	3,23	2,91	2,63	2,29	1,94	1,65	1,42
		L/200	Pressure	-	-	4,85	4,15	3,60	2,97	2,45	2,04	1,72	1,45	1,23	1,03	
			Suction	-	-	4,85	4,15	3,60	2,97	2,45	2,04	1,72	1,45	1,23	1,06	
		<b>II</b>	ULS	Pressure	3,89	3,11	2,59	2,22	1,94	1,73	1,56	1,42	1,30	1,20	1,10	1,00
				Suction	3,89	3,11	2,59	2,22	1,94	1,73	1,56	1,42	1,30	1,20	1,12	1,04
			L/100	Pressure	-	-	4,85	4,15	3,63	3,23	2,91	2,65	2,42	2,23	2,02	1,77
				Suction	-	-	4,85	4,15	3,63	3,23	2,91	2,65	2,42	2,23	2,08	1,90
	SLS L/150			Pressure	-	-	4,85	4,15	3,63	3,23	2,91	2,63	2,29	1,94	1,65	1,42
				Suction	-	-	4,85	4,15	3,63	3,23	2,91	2,63	2,29	1,94	1,65	1,42
	L/200		Pressure	-	-	4,85	4,15	3,60	2,97	2,45	2,04	1,72	1,45	1,23	1,03	
			Suction	-	-	4,85	4,15	3,60	2,97	2,45	2,04	1,72	1,45	1,23	1,06	
	<b>III</b>		ULS	Pressure	3,89	3,11	2,59	2,22	1,94	1,73	1,56	1,42	1,30	1,19	1,10	1,00
				Suction	3,89	3,11	2,59	2,22	1,94	1,73	1,56	1,42	1,30	1,20	1,12	1,04
			L/100	Pressure	-	-	4,85	4,15	3,63	3,23	2,91	2,64	2,42	2,23	2,02	1,77
				Suction	-	-	4,85	4,15	3,63	3,23	2,91	2,65	2,42	2,23	2,08	1,90
		SLS L/150		Pressure	-	-	4,85	4,15	3,63	3,23	2,91	2,63	2,29	1,94	1,65	1,42
				Suction	-	-	4,85	4,15	3,63	3,23	2,91	2,63	2,29	1,94	1,63	1,36
		L/200	Pressure	-	-	4,85	4,15	3,60	2,97	2,45	2,04	1,72	1,45	1,23	1,03	
			Suction	-	-	4,85	4,15	3,60	2,97	2,44	1,98	1,61	1,31	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: 60 mm

Minimum intermediate support width: 120 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/m<sup>2</sup>] for the length of span made of Balpol **200mm** thickness panels (Standard wall panel with mineral wool core).

## Double span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m <sup>2</sup> ] 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		
<b>200</b>	<b>I</b>	ULS	Pressure	3,89	3,11	2,59	2,22	1,94	1,73	1,56	1,42	1,30	1,20	1,10	1,00	
			Suction	3,89	3,11	2,59	2,22	1,94	1,73	1,56	1,42	1,30	1,20	1,12	1,04	
		L/100	Pressure	-	4,87	3,96	3,34	2,89	2,54	2,27	2,06	1,89	1,72	1,48	1,25	
			Suction	-	4,98	4,07	3,42	2,95	2,60	2,33	2,10	1,90	1,69	1,41	1,19	
			SLS L/150	Pressure	-	4,87	3,96	3,34	2,89	2,54	2,27	2,06	1,89	1,72	1,48	1,25
				Suction	-	4,98	4,07	3,42	2,95	2,60	2,32	2,11	1,90	1,69	1,40	1,19
		L/200	Pressure	-	4,87	3,96	3,34	2,89	2,54	2,27	2,06	1,89	1,72	1,48	1,25	
			Suction	-	4,98	4,07	3,42	2,95	2,60	2,32	2,10	1,90	1,69	1,40	1,19	
		<b>II</b>	ULS	Pressure	3,89	3,11	2,59	2,22	1,94	1,73	1,56	1,42	1,30	1,20	1,10	1,00
				Suction	3,89	3,11	2,59	2,22	1,94	1,73	1,56	1,42	1,30	1,20	1,12	1,04
			L/100	Pressure	-	4,87	3,96	3,34	2,89	2,54	2,27	2,06	1,89	1,72	1,48	1,25
				Suction	-	4,98	4,07	3,42	2,95	2,60	2,33	2,10	1,90	1,69	1,41	1,19
	SLS L/150			Pressure	-	4,87	3,96	3,34	2,89	2,54	2,27	2,06	1,89	1,72	1,48	1,25
				Suction	-	4,98	4,07	3,42	2,95	2,60	2,32	2,11	1,90	1,69	1,40	1,19
	L/200		Pressure	-	4,87	3,96	3,34	2,89	2,54	2,27	2,06	1,89	1,72	1,48	1,25	
			Suction	-	4,98	4,07	3,42	2,95	2,60	2,32	2,10	1,90	1,69	1,40	1,19	
	<b>III</b>		ULS	Pressure	3,89	3,11	2,59	2,22	1,94	1,73	1,56	1,42	1,30	1,19	1,09	1,00
				Suction	3,89	3,11	2,59	2,22	1,94	1,73	1,56	1,39	1,17	0,87	0,66	0,51
			L/100	Pressure	-	4,87	3,96	3,34	2,89	2,54	2,27	2,06	1,89	1,72	1,48	1,25
				Suction	-	4,71	3,83	3,22	2,79	2,46	2,16	1,61	1,17	0,87	0,66	0,51
		SLS L/150		Pressure	-	4,87	3,96	3,34	2,89	2,54	2,27	2,06	1,89	1,72	1,48	1,25
				Suction	-	4,71	3,83	3,22	2,79	2,46	2,16	1,61	1,17	0,87	0,66	0,51
		L/200	Pressure	-	4,87	3,96	3,34	2,89	2,54	2,27	2,06	1,89	1,72	1,48	1,25	
			Suction	-	4,71	3,83	3,22	2,79	2,46	2,16	1,61	1,17	0,87	0,66	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: 60 mm

Minimum intermediate support width: 120 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/m<sup>2</sup>] for the length of span made of Balpol **230mm** thickness panels (Standard wall panel with mineral wool core).

## Single span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m <sup>2</sup> ] 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			
<b>230</b>	<b>I</b>	ULS	Pressure	4,48	3,58	2,98	2,55	2,23	1,99	1,79	1,64	1,49	1,39	1,28	1,15		
			Suction	4,48	3,58	2,98	2,55	2,23	1,99	1,79	1,64	1,49	1,39	1,28	1,18		
		L/100	Pressure	-	-	-	4,77	4,18	3,71	3,34	3,03	2,78	2,57	2,32	2,04		
				Suction	-	-	-	4,77	4,18	3,71	3,34	3,03	2,78	2,57	2,39	2,21	
			SLS		L/150	Pressure	-	-	-	4,77	4,18	3,71	3,34	3,04	2,78	2,41	2,06
				Suction		-	-	-	4,77	4,18	3,71	3,34	3,03	2,78	2,41	2,06	1,77
		L/200	Pressure	-	-	-	4,77	4,18	3,59	2,99	2,50	2,12	1,80	1,54	1,33		
				Suction	-	-	-	4,77	4,18	3,59	2,99	2,50	2,12	1,80	1,54	1,33	
			<b>II</b>		ULS	Pressure	4,48	3,58	2,98	2,55	2,23	1,99	1,79	1,64	1,49	1,39	1,28
				Suction		4,48	3,58	2,98	2,55	2,23	1,99	1,79	1,64	1,49	1,39	1,28	1,18
		L/100		Pressure	-	-	-	4,77	4,18	3,71	3,34	3,03	2,78	2,57	2,32	2,04	
					Suction	-	-	-	4,77	4,18	3,71	3,34	3,03	2,78	2,57	2,39	2,21
	SLS			L/150		Pressure	-	-	-	4,77	4,18	3,71	3,34	3,04	2,78	2,41	2,06
					Suction	-	-	-	4,77	4,18	3,71	3,34	3,03	2,78	2,41	2,06	1,77
	L/200	Pressure	-	-	-	4,77	4,18	3,59	2,99	2,50	2,12	1,80	1,54	1,33			
			Suction	-	-	-	4,77	4,18	3,59	2,99	2,50	2,12	1,80	1,54	1,33		
		<b>III</b>		ULS	Pressure	4,48	3,58	2,98	2,55	2,23	1,99	1,79	1,63	1,49	1,39	1,28	1,15
			Suction		4,48	3,58	2,98	2,55	2,23	1,99	1,79	1,63	1,49	1,39	1,28	1,18	
	L/100		Pressure	-	-	-	4,77	4,18	3,71	3,34	3,03	2,78	2,57	2,32	2,04		
				Suction	-	-	-	4,77	4,18	3,71	3,34	3,03	2,78	2,57	2,39	2,21	
			SLS		L/150	Pressure	-	-	-	4,77	4,18	3,71	3,34	3,03	2,78	2,41	2,06
				Suction		-	-	-	4,77	4,18	3,71	3,34	3,04	2,78	2,40	2,06	1,77
	L/200		Pressure	-	-	-	4,77	4,18	3,59	2,99	2,50	2,12	1,80	1,54	1,33		
				Suction	-	-	-	4,77	4,18	3,59	2,99	2,50	2,10	1,73	1,44	1,20	

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: 60 mm

Minimum intermediate support width: 120 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/m<sup>2</sup>] for the length of span made of Balpol **230mm** thickness panels (Standard wall panel with mineral wool core).

## Double span installation

Panel thickness (mm)	Load capacity for		Maximum load [kN/m <sup>2</sup> ] 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		
<b>230</b>	<b>I</b>	ULS	Pressure	4,48	3,58	2,98	2,56	2,23	1,99	1,79	1,64	1,49	1,39	1,28	1,15	
			Suction	4,48	3,58	2,98	2,56	2,23	1,99	1,79	1,64	1,49	1,39	1,28	1,18	
		L/100	Pressure	-	-	4,63	3,90	3,36	2,96	2,64	2,39	2,19	2,01	1,76	1,49	
			Suction	-	-	4,72	3,98	3,44	3,02	2,70	2,44	2,21	2,00	1,67	1,40	
			SLS L/150	Pressure	-	-	4,63	3,90	3,36	2,96	2,64	2,39	2,19	2,01	1,76	1,49
				Suction	-	-	4,72	3,98	3,43	3,02	2,70	2,44	2,21	2,00	1,67	1,40
		L/200	Pressure	-	-	4,63	3,90	3,36	2,96	2,64	2,39	2,19	2,01	1,76	1,49	
			Suction	-	-	4,72	3,98	3,43	3,02	2,70	2,44	2,21	2,00	1,67	1,40	
		<b>II</b>	ULS	Pressure	4,48	3,58	2,98	2,56	2,23	1,99	1,79	1,64	1,49	1,39	1,28	1,15
				Suction	4,48	3,58	2,98	2,56	2,23	1,99	1,79	1,64	1,49	1,39	1,28	1,18
			L/100	Pressure	-	-	4,63	3,90	3,36	2,96	2,64	2,39	2,19	2,01	1,76	1,49
				Suction	-	-	4,72	3,98	3,44	3,02	2,70	2,44	2,21	2,00	1,67	1,40
	SLS L/150			Pressure	-	-	4,63	3,90	3,36	2,96	2,64	2,39	2,19	2,01	1,76	1,49
				Suction	-	-	4,72	3,98	3,43	3,02	2,70	2,44	2,21	2,00	1,67	1,40
	L/200		Pressure	-	-	4,63	3,90	3,36	2,96	2,64	2,39	2,19	2,01	1,76	1,49	
			Suction	-	-	4,72	3,98	3,43	3,02	2,70	2,44	2,21	2,00	1,67	1,40	
	<b>III</b>		ULS	Pressure	4,48	3,58	2,98	2,55	2,23	1,99	1,79	1,64	1,49	1,38	1,28	1,15
				Suction	4,48	3,58	2,98	2,55	2,23	1,99	1,79	1,63	1,47	1,12	0,85	0,67
			L/100	Pressure	-	-	4,63	3,90	3,36	2,96	2,64	2,39	2,18	2,01	1,76	1,49
				Suction	-	-	4,47	3,76	3,25	2,87	2,56	2,11	1,50	1,12	0,85	0,67
		SLS L/150		Pressure	-	-	4,63	3,90	3,36	2,96	2,64	2,40	2,18	2,01	1,76	1,49
				Suction	-	-	4,47	3,76	3,25	2,87	2,56	2,11	1,50	1,12	0,85	0,67
		L/200	Pressure	-	-	4,63	3,90	3,36	2,96	2,64	2,39	2,19	2,01	1,76	1,49	
			Suction	-	-	4,47	3,76	3,25	2,87	2,56	2,11	1,50	1,12	0,85	0,67	

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: 60 mm

Minimum intermediate support width: 120 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.