

Maximum allowed load for span length – sandwich panel **GORLICKA® U GS-PIR 1000 thickness: 60 mm**

External facing thickness:	0,5 mm	Number of fasteners at end support:	PM1 +2
Internal facing thickness:	0,5 mm	Number of fasteners at intermediate support:	PM1 +2
External temperature : summer/winter	55, 65, 80/-20 deg.C	Core material :	PIR
Internal temperature : summer/winter	20 / 20 deg. C	Steel type:	S250GD
Minimum end support width:	40 mm	Ultimate limit state (to compare with design loads)	ULS
Minimum intermediate support width:	60 mm	Serviceability limit state (to compare with characteristic loads)	SLS

Static schema	Colour group	Criterion	Maximum uniformly distributed load [kN/m ²]										
			Axial span length										
			1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5

Single-span system	I	ULS	pressure	6,443	4,799	3,697	2,553	1,868	1,426	1,124	0,908	0,749	0,629	0,535
			suction	-2,573	-1,917	-1,527	-1,269	-1,085	-0,948	-0,841	-0,756	-0,687	-0,629	-0,535
	L/100	SLS	pressure	7,918	5,141	3,513	2,486	1,808	1,347	0,997	0,741	0,558	0,426	0,314
			suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,024	-0,780	-0,593	-0,456	-0,355
	L/150	SLS	pressure	5,278	3,427	2,342	1,616	1,102	0,767	0,494	0,293	0,161	0,072	0,013
			suction	-3,424	-2,550	-2,032	-1,657	-1,165	-0,820	-0,588	-0,404	-0,257	-0,156	-0,086
	L/200	SLS	pressure	3,959	2,570	1,645	1,063	0,607	0,301	0,114	-	-	-	-
			suction	-3,424	-2,550	-1,732	-1,138	-0,763	-0,451	-0,242	-0,109	-0,025	-	-
	II	ULS	pressure	6,443	4,799	3,697	2,553	1,868	1,426	1,124	0,908	0,749	0,629	0,535
			suction	-2,573	-1,917	-1,527	-1,269	-1,085	-0,948	-0,841	-0,756	-0,687	-0,629	-0,535
L/100		SLS	pressure	7,918	5,141	3,513	2,486	1,808	1,347	0,997	0,741	0,558	0,426	0,314
			suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-0,951	-0,701	-0,524	-0,360	-0,240
L/150		SLS	pressure	5,278	3,427	2,342	1,616	1,102	0,767	0,494	0,293	0,161	0,072	0,013
			suction	-3,424	-2,550	-2,032	-1,542	-1,039	-0,651	-0,366	-0,183	-0,065	-	-
L/200		SLS	pressure	3,959	2,570	1,645	1,063	0,607	0,301	0,114	-	-	-	-
			suction	-3,424	-2,513	-1,558	-0,907	-0,432	-0,152	-	-	-	-	-
III		ULS	pressure	6,443	4,799	3,697	2,553	1,868	1,426	1,124	0,908	0,749	0,629	0,535
			suction	-2,573	-1,917	-1,527	-1,269	-1,085	-0,948	-0,841	-0,756	-0,687	-0,629	-0,535
	L/100	SLS	pressure	7,918	5,141	3,513	2,486	1,808	1,347	0,997	0,741	0,558	0,426	0,314
			suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,150	-0,741	-0,441	-0,242	-0,109	-0,020
	L/150	SLS	pressure	5,278	3,427	2,342	1,616	1,102	0,767	0,494	0,293	0,161	0,072	0,013
			suction	-3,424	-2,550	-2,032	-1,210	-0,576	-0,203	-	-	-	-	-
	L/200	SLS	pressure	3,959	2,570	1,645	1,063	0,607	0,301	0,114	-	-	-	-
			suction	-3,424	-2,208	-0,999	-0,289	-	-	-	-	-	-	-

Multi-span system	I	ULS	pressure	4,768	3,523	2,799	1,900	1,323	0,977	0,752	0,598	0,487	0,404	0,341	
			suction	-2,245	-1,666	-1,329	-1,108	-0,951	-0,833	-0,741	-0,635	-0,518	-0,430	-0,363	
		L/100	SLS	pressure	6,201	4,571	3,623	2,571	1,805	1,340	1,036	0,826	0,674	0,561	0,474
				suction	-1,817	-1,346	-1,072	-0,892	-0,765	-0,670	-0,596	-0,537	-0,488	-0,448	-0,413
		L/150	SLS	pressure	5,670	3,870	2,795	2,088	1,596	1,243	0,982	0,787	0,638	0,522	0,428
				suction	-1,817	-1,346	-1,072	-0,892	-0,765	-0,670	-0,596	-0,537	-0,488	-0,448	-0,413
	L/200	SLS	pressure	4,252	2,902	2,096	1,566	1,197	0,932	0,737	0,574	0,450	0,356	0,284	
			suction	-1,817	-1,346	-1,072	-0,892	-0,765	-0,670	-0,596	-0,537	-0,488	-0,437	-0,366	
	II	ULS	pressure	4,768	3,523	2,799	1,900	1,323	0,977	0,752	0,598	0,487	0,404	0,341	
			suction	-2,191	-1,630	-1,350	-1,090	-0,937	-0,823	-0,692	-0,542	-0,437	-0,360	-0,302	
		L/100	SLS	pressure	6,201	4,571	3,623	2,571	1,805	1,340	1,036	0,826	0,674	0,561	0,474
				suction	-1,781	-1,322	-1,056	-0,881	-0,756	-0,663	-0,590	-0,532	-0,484	-0,444	-0,411
		L/150	SLS	pressure	5,670	3,870	2,795	2,088	1,596	1,243	0,982	0,787	0,638	0,522	0,428
				suction	-1,781	-1,322	-1,056	-0,881	-0,756	-0,663	-0,590	-0,532	-0,484	-0,444	-0,411
	L/200	SLS	pressure	4,252	2,902	2,096	1,566	1,197	0,932	0,737	0,574	0,450	0,356	0,284	
			suction	-1,781	-1,322	-1,056	-0,881	-0,756	-0,663	-0,590	-0,532	-0,484	-0,437	-0,366	
	III	ULS	pressure	4,768	3,523	2,799	1,900	1,323	0,977	0,752	0,598	0,487	0,404	0,341	
			suction	-2,109	-1,577	-1,268	-0,975	-0,604	-0,408	-0,292	-0,219	-0,171	-0,137	-0,112	
L/100		SLS	pressure	6,201	4,571	3,543	2,571	1,805	1,340	1,036	0,826	0,674	0,561	0,474	
			suction	-1,726	-1,287	-1,031	-0,863	-0,743	-0,652	-0,582	-0,525	-0,479	-0,440	-0,407	
L/150		SLS	pressure	5,670	3,870	2,795	2,088	1,596	1,243	0,982	0,787	0,638	0,522	0,428	
			suction	-1,726	-1,287	-1,031	-0,863	-0,743	-0,652	-0,582	-0,525	-0,479	-0,440	-0,407	
L/200	SLS	pressure	4,252	2,902	2,096	1,566	1,197	0,932	0,737	0,574	0,450	0,356	0,284		
		suction	-1,726	-1,287	-1,031	-0,863	-0,743	-0,652	-0,582	-0,525	-0,479	-0,437	-0,366		

I colour group :	very bright	RAL: 1015,7035, 9002, 9010, 9016
II colour group :	bright	RAL: 5012, 9006, 6011
III colour group :	dark	RAL: 3000, 5010, 6029, 7016, 7024, 8017, 9007

In the case of dark colors, the total length of the board is limited. Details available from our sales representatives.

For other values of the internal temperature, thickness and material lining, etc..., Please contact us to perform separate calculations.

Maximum allowed load for span length – sandwich panel **GORLICKA® U GS-PIR 1000 thickness: 80 mm**

External facing thickness:	0,5 mm	Number of fasteners at end support:	PM1 +2
Internal facing thickness:	0,5 mm	Number of fasteners at intermediate support:	PM1 +2
External temperature : summer/winter	55, 65, 80/-20 deg.C	Core material :	PIR
Internal temperature : summer/winter	20 / 20 deg. C	Steel type:	S250GD
Minimum end support width:	40 mm	Ultimate limit state (to compare with design loads)	ULS
Minimum intermediate support width:	60 mm	Serviceability limit state (to compare with characteristic loads)	SLS

Static schema	Colour group	Criterion	Maximum uniformly distributed load [kN/m2]										
			Axial span length										
			1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5

Single-span system	I	ULS	pressure	7,030	5,236	4,171	3,411	2,496	1,905	1,502	1,214	1,002	0,840	0,715
			suction	-2,573	-1,917	-1,527	-1,269	-1,085	-0,948	-0,841	-0,756	-0,687	-0,629	-0,580
		SLS L/100	pressure	8,948	6,665	5,211	3,783	2,814	2,136	1,651	1,297	1,033	0,812	0,643
			suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-1,007	-0,915	-0,834	-0,676
		SLS L/150	pressure	7,408	4,945	3,474	2,521	1,875	1,388	1,023	0,764	0,577	0,402	0,271
			suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,078	-0,813	-0,620	-0,478	-0,363
	SLS L/200	pressure	5,555	3,709	2,605	1,845	1,288	0,913	0,599	0,362	0,201	0,092	0,018	
		suction	-3,424	-2,550	-2,032	-1,688	-1,361	-0,977	-0,711	-0,497	-0,320	-0,197	-0,111	
	II	ULS	pressure	7,030	5,236	4,171	3,411	2,496	1,905	1,502	1,214	1,002	0,840	0,715
			suction	-2,573	-1,917	-1,527	-1,269	-1,085	-0,948	-0,841	-0,756	-0,687	-0,629	-0,580
SLS L/100		pressure	8,948	6,665	5,211	3,783	2,814	2,136	1,651	1,297	1,033	0,812	0,643	
		suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-1,007	-0,915	-0,775	-0,610	
SLS L/150		pressure	7,408	4,945	3,474	2,521	1,875	1,388	1,023	0,764	0,577	0,402	0,271	
		suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-0,967	-0,707	-0,466	-0,297	-0,179	
SLS L/200	pressure	5,555	3,709	2,605	1,845	1,288	0,913	0,599	0,362	0,201	0,092	0,018		
	suction	-3,424	-2,550	-2,032	-1,688	-1,214	-0,777	-0,445	-0,227	-0,083	-	-		

Multi-span system	I	ULS	pressure	5,316	3,918	3,108	2,580	1,847	1,352	1,034	0,817	0,663	0,549	0,463
			suction	-2,223	-1,645	-1,312	-1,094	-0,939	-0,824	-0,734	-0,662	-0,603	-0,553	-0,493
		SLS L/100	pressure	6,925	5,094	4,033	3,340	2,502	1,843	1,417	1,125	0,915	0,760	0,641
			suction	-1,804	-1,333	-1,061	-0,883	-0,758	-0,664	-0,591	-0,532	-0,484	-0,445	-0,411
		SLS L/150	pressure	6,925	5,094	3,992	3,041	2,370	1,843	1,417	1,125	0,915	0,760	0,641
			suction	-1,804	-1,333	-1,061	-0,883	-0,758	-0,664	-0,591	-0,532	-0,484	-0,445	-0,411
	SLS L/200	pressure	5,862	4,069	2,994	2,280	1,777	1,409	1,132	0,921	0,756	0,627	0,518	
		suction	-1,804	-1,333	-1,061	-0,883	-0,758	-0,664	-0,591	-0,532	-0,484	-0,445	-0,411	
	II	ULS	pressure	5,316	3,918	3,108	2,580	1,847	1,352	1,034	0,817	0,663	0,549	0,463
			suction	-2,157	-1,601	-1,281	-1,071	-0,922	-0,810	-0,723	-0,653	-0,595	-0,497	-0,415
		SLS L/100	pressure	6,925	5,094	4,033	3,340	2,502	1,843	1,417	1,125	0,915	0,760	0,641
			suction	-1,760	-1,304	-1,041	-0,868	-0,746	-0,655	-0,583	-0,526	-0,479	-0,440	-0,407
		SLS L/150	pressure	6,925	5,094	3,992	3,041	2,370	1,843	1,417	1,125	0,915	0,760	0,641
			suction	-1,760	-1,304	-1,041	-0,868	-0,746	-0,655	-0,583	-0,526	-0,479	-0,440	-0,407
	SLS L/200	pressure	5,862	4,069	2,994	2,280	1,777	1,409	1,132	0,921	0,756	0,627	0,518	
		suction	-1,760	-1,304	-1,041	-0,868	-0,746	-0,655	-0,583	-0,526	-0,479	-0,440	-0,407	

I colour group :	very bright	RAL: 1015,7035, 9002, 9010, 9016
II colour group :	bright	RAL: 5012, 9006, 6011
III colour group :	dark	RAL: 3000, 5010, 6029, 7016, 7024, 8017, 9007

In the case of dark colors, the total length of the board is limited. Details available from our sales representatives.

For other values of the internal temperature, thickness and material lining, etc..., Please contact us to perform separate calculations.

Maximum allowed load for span length – sandwich panel **GORLICKA® U GS-PIR 1000 thickness: 100 mm**

External facing thickness:	0,5 mm	Number of fasteners at end support:	PM1 +2
Internal facing thickness:	0,5 mm	Number of fasteners at intermediate support:	PM1 +2
External temperature : summer/winter	55, 65, 80/-20 deg.C	Core material :	PIR
Internal temperature : summer/winter	20 / 20 deg. C	Steel type:	S250GD
Minimum end support width:	40 mm	Ultimate limit state (to compare with design loads)	ULS
Minimum intermediate support width:	60 mm	Serviceability limit state (to compare with characteristic loads)	SLS

Static schema	Colour group	Criterion	Maximum uniformly distributed load [kN/m ²]										
			Axial span length										
			1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5

Single-span system	I	ULS	pressure	7,617	5,673	4,520	3,756	3,125	2,385	1,880	1,520	1,254	1,052	0,895
			suction	-2,573	-1,917	-1,527	-1,269	-1,085	-0,948	-0,841	-0,756	-0,687	-0,629	-0,580
		SLS L/100	pressure	9,695	7,222	5,754	4,781	3,551	2,711	2,137	1,728	1,426	1,196	1,009
			suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-1,007	-0,915	-0,838	-0,773
		SLS L/150	pressure	9,559	6,500	4,655	3,442	2,604	2,007	1,398	1,216	0,942	0,737	0,582
			suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-1,007	-0,915	-0,781	-0,622
	SLS L/200	pressure	7,169	4,875	3,491	2,581	1,952	1,432	0,682	0,800	0,571	0,383	0,247	
		suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-0,856	-0,657	-0,505	-0,356	
	II	ULS	pressure	7,617	5,673	4,520	3,756	3,125	2,385	1,880	1,520	1,254	1,052	0,895
			suction	-2,573	-1,917	-1,527	-1,269	-1,085	-0,948	-0,841	-0,756	-0,687	-0,629	-0,580
SLS L/100		pressure	9,695	7,222	5,754	4,781	3,551	2,711	2,137	1,728	1,426	1,196	1,009	
		suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-1,007	-0,915	-0,838	-0,773	
SLS L/150		pressure	9,559	6,500	4,655	3,442	2,604	2,007	1,398	1,216	0,942	0,737	0,582	
		suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-1,007	-0,892	-0,693	-0,512	
SLS L/200	pressure	7,169	4,875	3,491	2,581	1,952	1,432	0,682	0,800	0,571	0,383	0,247		
	suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,001	-0,680	-0,434	-0,260	-0,138		

Multi-span system	I	ULS	pressure	5,872	4,319	3,422	2,837	2,411	1,750	1,330	1,047	0,846	0,699	0,588
			suction	-2,204	-1,627	-1,296	-1,080	-0,928	-0,815	-0,726	-0,655	-0,597	-0,548	-0,507
		SLS L/100	pressure	7,654	5,623	4,446	3,679	3,139	2,372	1,814	1,434	1,164	0,964	0,812
			suction	-1,793	-1,322	-1,051	-0,875	-0,751	-0,658	-0,586	-0,528	-0,481	-0,441	-0,408
		SLS L/150	pressure	7,654	5,623	4,446	3,679	3,139	2,372	1,814	1,434	1,164	0,964	0,812
			suction	-1,793	-1,322	-1,051	-0,875	-0,751	-0,658	-0,586	-0,528	-0,481	-0,441	-0,408
	SLS L/200	pressure	7,484	5,250	3,911	3,018	2,384	1,915	1,558	1,281	1,064	0,891	0,751	
		suction	-1,793	-1,322	-1,051	-0,875	-0,751	-0,658	-0,586	-0,528	-0,481	-0,441	-0,408	
	II	ULS	pressure	5,872	4,319	3,422	2,837	2,411	1,750	1,330	1,047	0,846	0,699	0,588
			suction	-2,130	-1,575	-1,259	-1,053	-0,907	-0,798	-0,713	-0,644	-0,588	-0,541	-0,501
		SLS L/100	pressure	7,654	5,623	4,446	3,679	3,139	2,372	1,814	1,434	1,164	0,964	0,812
			suction	-1,744	-1,288	-1,027	-0,857	-0,737	-0,647	-0,577	-0,521	-0,475	-0,436	-0,404
		SLS L/150	pressure	7,654	5,623	4,446	3,679	3,139	2,372	1,814	1,434	1,164	0,964	0,812
			suction	-1,744	-1,288	-1,027	-0,857	-0,737	-0,647	-0,577	-0,521	-0,475	-0,436	-0,404
	SLS L/200	pressure	7,484	5,250	3,911	3,018	2,384	1,915	1,558	1,281	1,064	0,891	0,751	
		suction	-1,744	-1,288	-1,027	-0,857	-0,737	-0,647	-0,577	-0,521	-0,475	-0,436	-0,404	

I colour group :	very bright	RAL: 1015,7035, 9002, 9010, 9016
II colour group :	bright	RAL: 5012, 9006, 6011
III colour group :	dark	RAL: 3000, 5010, 6029, 7016, 7024, 8017, 9007

In the case of dark colors, the total length of the board is limited. Details available from our sales representatives.

For other values of the internal temperature, thickness and material lining, etc., Please contact us to perform separate calculations.

Maximum allowed load for span length – sandwich panel **GORLICKA® U GS-PIR 1000 thickness: 120 mm**

External facing thickness:	0,5 mm	Number of fasteners at end support:	PM1 +2
Internal facing thickness:	0,5 mm	Number of fasteners at intermediate support:	PM1 +2
External temperature : summer/winter	55, 65, 80/-20 deg.C	Core material :	PIR
Internal temperature : summer/winter	20 / 20 deg. C	Steel type:	S250GD
Minimum end support width:	40 mm	Ultimate limit state (to compare with design loads)	ULS
Minimum intermediate support width:	60 mm	Serviceability limit state (to compare with characteristic loads)	SLS

Static schema	Colour group	Criterion	Maximum uniformly distributed load [kN/m2]										
			Axial span length										
			1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5

Single-span system	I	ULS	pressure	7,631	5,684	4,528	3,763	3,219	2,812	2,497	2,245	1,869	1,567	1,334
			suction	-2,573	-1,917	-1,527	-1,269	-1,085	-0,948	-0,841	-0,756	-0,687	-0,629	-0,580
	SLS	L/100	pressure	9,713	7,235	5,764	4,790	4,098	3,580	3,132	2,513	2,039	1,672	1,385
			suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-1,007	-0,915	-0,838	-0,773
	SLS	L/150	pressure	9,713	7,235	5,764	4,406	3,379	2,637	2,088	1,675	1,359	1,086	0,872
			suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-1,007	-0,915	-0,838	-0,773
	SLS	L/200	pressure	8,796	6,063	4,405	3,304	2,534	1,977	1,527	1,174	0,912	0,714	0,540
			suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-1,007	-0,896	-0,764	-0,608
	II	ULS	pressure	7,631	5,684	4,528	3,763	3,219	2,812	2,497	2,245	1,869	1,567	1,334
			suction	-2,573	-1,917	-1,527	-1,269	-1,085	-0,948	-0,841	-0,756	-0,687	-0,629	-0,580
SLS		L/100	pressure	9,713	7,235	5,764	4,790	4,098	3,580	3,132	2,513	2,039	1,672	1,385
			suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-1,007	-0,915	-0,838	-0,773
SLS		L/150	pressure	9,713	7,235	5,764	4,406	3,379	2,637	2,088	1,675	1,359	1,086	0,872
			suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-1,007	-0,915	-0,838	-0,773
SLS		L/200	pressure	8,796	6,063	4,405	3,304	2,534	1,977	1,527	1,174	0,912	0,714	0,540
			suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-1,007	-0,856	-0,607	-0,415
III		ULS	pressure	7,631	5,684	4,528	3,763	3,219	2,812	2,497	2,245	1,869	1,567	1,334
			suction	-2,573	-1,917	-1,527	-1,269	-1,085	-0,948	-0,841	-0,756	-0,687	-0,629	-0,580
	SLS	L/100	pressure	9,713	7,235	5,764	4,790	4,098	3,580	3,132	2,513	2,039	1,672	1,385
			suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-1,007	-0,915	-0,838	-0,773
	SLS	L/150	pressure	9,713	7,235	5,764	4,406	3,379	2,637	2,088	1,675	1,359	1,086	0,872
			suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-1,007	-0,915	-0,809	-0,554
	SLS	L/200	pressure	8,796	6,063	4,405	3,304	2,534	1,977	1,527	1,174	0,912	0,714	0,540
			suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-0,706	-0,402	-0,190	-0,041

Multi-span system	I	ULS	pressure	5,883	4,320	3,419	2,834	2,422	2,117	1,641	1,286	1,036	0,853	0,716	
			suction	-2,189	-1,610	-1,281	-1,068	-0,918	-0,806	-0,719	-0,649	-0,592	-0,544	-0,503	
		SLS	L/100	pressure	7,686	5,640	4,456	3,685	3,144	2,742	2,228	1,755	1,420	1,173	0,987
				suction	-1,785	-1,312	-1,042	-0,867	-0,744	-0,652	-0,581	-0,524	-0,477	-0,438	-0,405
		SLS	L/150	pressure	7,686	5,640	4,456	3,685	3,144	2,742	2,228	1,755	1,420	1,173	0,987
				suction	-1,785	-1,312	-1,042	-0,867	-0,744	-0,652	-0,581	-0,524	-0,477	-0,438	-0,405
	SLS	L/200	pressure	7,686	5,640	4,456	3,685	3,007	2,439	2,004	1,663	1,393	1,173	0,987	
			suction	-1,785	-1,312	-1,042	-0,867	-0,744	-0,652	-0,581	-0,524	-0,477	-0,438	-0,405	
	II	ULS	pressure	5,883	4,320	3,419	2,834	2,422	2,117	1,641	1,286	1,036	0,853	0,716	
			suction	-2,107	-1,552	-1,239	-1,036	-0,893	-0,786	-0,703	-0,636	-0,581	-0,535	-0,495	
		SLS	L/100	pressure	7,686	5,640	4,456	3,685	3,144	2,742	2,228	1,755	1,420	1,173	0,987
				suction	-1,730	-1,273	-1,014	-0,846	-0,728	-0,639	-0,570	-0,515	-0,470	-0,432	-0,400
		SLS	L/150	pressure	7,686	5,640	4,456	3,685	3,144	2,742	2,228	1,755	1,420	1,173	0,987
				suction	-1,730	-1,273	-1,014	-0,846	-0,728	-0,639	-0,570	-0,515	-0,470	-0,432	-0,400
	SLS	L/200	pressure	7,686	5,640	4,456	3,685	3,007	2,439	2,004	1,663	1,393	1,173	0,987	
			suction	-1,730	-1,273	-1,014	-0,846	-0,728	-0,639	-0,570	-0,515	-0,470	-0,432	-0,400	
	III	ULS	pressure	5,883	4,320	3,419	2,834	2,422	2,117	1,641	1,286	1,036	0,853	0,716	
			suction	-1,985	-1,465	-1,175	-0,988	-0,856	-0,757	-0,679	-0,616	-0,564	-0,521	-0,465	
SLS		L/100	pressure	7,686	5,640	4,456	3,685	3,144	2,742	2,228	1,755	1,420	1,173	0,987	
			suction	-1,648	-1,215	-0,971	-0,814	-0,703	-0,620	-0,555	-0,502	-0,459	-0,423	-0,392	
SLS		L/150	pressure	7,686	5,640	4,456	3,685	3,144	2,742	2,228	1,755	1,420	1,173	0,987	
			suction	-1,648	-1,215	-0,971	-0,814	-0,703	-0,620	-0,555	-0,502	-0,459	-0,423	-0,392	
SLS	L/200	pressure	7,686	5,640	4,456	3,685	3,007	2,439	2,004	1,663	1,393	1,173	0,987		
		suction	-1,648	-1,215	-0,971	-0,814	-0,703	-0,620	-0,555	-0,502	-0,459	-0,423	-0,392		

I colour group :	very bright	RAL: 1015,7035, 9002, 9010, 9016
II colour group :	bright	RAL: 5012, 9006, 6011
III colour group :	dark	RAL: 3000, 5010, 6029, 7016, 7024, 8017, 9007

In the case of dark colors, the total length of the board is limited. Details available from our sales representatives.

For other values of the internal temperature, thickness and material lining, etc., Please contact us to perform separate calculations.

Maximum allowed load for span length – sandwich panel **GORLICKA® U GS-PIR 1000 thickness: 140 mm**

External facing thickness:	0,5 mm	Number of fasteners at end support:	PM1 +2
Internal facing thickness:	0,5 mm	Number of fasteners at intermediate support:	PM1 +2
External temperature : summer/winter	55, 65, 80/-20 deg.C	Core material :	PIR
Internal temperature : summer/winter	20 / 20 deg. C	Steel type:	S250GD
Minimum end support width:	40 mm	Ultimate limit state (to compare with design loads)	ULS
Minimum intermediate support width:	60 mm	Serviceability limit state (to compare with characteristic loads)	SLS

Static schema	Colour group	Criterion	Maximum uniformly distributed load [kN/m ²]										
			Axial span length										
			1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5

Single-span system	I	ULS	pressure	7,631	5,684	4,528	3,763	3,219	2,812	2,497	2,245	2,039	1,830	1,557
			suction	-2,573	-1,917	-1,527	-1,269	-1,085	-0,948	-0,841	-0,756	-0,687	-0,629	-0,580
		SLS L/100	pressure	9,713	7,235	5,764	4,790	4,098	3,580	3,179	2,858	2,441	2,027	1,697
			suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-1,007	-0,915	-0,838	-0,773
		SLS L/150	pressure	9,713	7,235	5,764	4,790	3,791	3,014	2,428	1,978	1,627	1,351	1,131
			suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-1,007	-0,915	-0,838	-0,773
	SLS L/200	pressure	9,713	6,410	4,749	3,635	2,843	2,260	1,821	1,471	1,168	0,935	0,754	
		suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-1,007	-0,915	-0,838	-0,773	
	II	ULS	pressure	7,631	5,684	4,528	3,763	3,219	2,812	2,497	2,245	2,039	1,830	1,557
			suction	-2,573	-1,917	-1,527	-1,269	-1,085	-0,948	-0,841	-0,756	-0,687	-0,629	-0,580
SLS L/100		pressure	9,713	7,235	5,764	4,790	4,098	3,580	3,179	2,858	2,441	2,027	1,697	
		suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-1,007	-0,915	-0,838	-0,773	
SLS L/150		pressure	9,713	7,235	5,764	4,790	3,791	3,014	2,428	1,978	1,627	1,351	1,131	
		suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-1,007	-0,915	-0,838	-0,773	
SLS L/200	pressure	9,713	6,410	4,749	3,635	2,843	2,260	1,821	1,471	1,168	0,935	0,754		
	suction	-3,424	-2,550	-2,032	-1,688	-1,444	-1,262	-1,120	-1,007	-0,915	-0,838	-0,707		

Multi-span system	I	ULS	pressure	5,928	4,342	3,429	2,837	2,422	2,115	1,878	1,569	1,256	1,029	0,859
			suction	-2,208	-1,615	-1,280	-1,064	-0,913	-0,801	-0,714	-0,644	-0,588	-0,540	-0,500
		SLS L/100	pressure	7,742	5,674	4,475	3,696	3,150	2,746	2,434	2,126	1,710	1,407	1,179
			suction	-1,800	-1,317	-1,042	-0,865	-0,741	-0,649	-0,578	-0,521	-0,475	-0,436	-0,403
		SLS L/150	pressure	7,742	5,674	4,475	3,696	3,150	2,746	2,434	2,126	1,710	1,407	1,179
			suction	-1,800	-1,317	-1,042	-0,865	-0,741	-0,649	-0,578	-0,521	-0,475	-0,436	-0,403
	SLS L/200	pressure	7,742	5,674	4,475	3,696	3,150	2,675	2,229	1,876	1,592	1,360	1,170	
		suction	-1,800	-1,317	-1,042	-0,865	-0,741	-0,649	-0,578	-0,521	-0,475	-0,436	-0,403	
	II	ULS	pressure	5,928	4,342	3,429	2,837	2,422	2,115	1,878	1,569	1,256	1,029	0,859
			suction	-2,127	-1,555	-1,234	-1,029	-0,885	-0,779	-0,696	-0,630	-0,575	0,530	-0,491
		SLS L/100	pressure	7,742	5,674	4,475	3,696	3,150	2,746	2,434	2,126	1,710	1,407	1,179
			suction	-1,745	-1,277	-1,012	-0,842	-0,723	-0,635	-0,566	-0,511	-0,467	-0,429	-0,397
		SLS L/150	pressure	7,742	5,674	4,475	3,696	3,150	2,746	2,434	2,126	1,710	1,407	1,179
			suction	-1,745	-1,277	-1,012	-0,842	-0,723	-0,635	-0,566	-0,511	-0,467	-0,429	-0,397
	SLS L/200	pressure	7,742	5,674	4,475	3,696	3,150	2,675	2,229	1,876	1,592	1,360	1,170	
		suction	-1,745	-1,277	-1,012	-0,842	-0,723	-0,635	-0,566	-0,511	-0,467	-0,429	-0,397	

I colour group :	very bright	RAL: 1015,7035, 9002, 9010, 9016
II colour group :	bright	RAL: 5012, 9006, 6011
III colour group :	dark	RAL: 3000, 5010, 6029, 7016, 7024, 8017, 9007

In the case of dark colors, the total length of the board is limited. Details available from our sales representatives.

For other values of the internal temperature, thickness and material lining, etc., Please contact us to perform separate calculations.