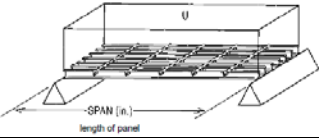
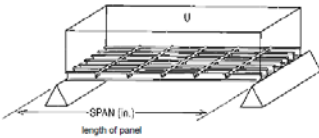


	HI-4720	0.254	0.762	1.016	1.524	3.032	6.604	9.652	/	/
	HI-4725	/	0.254	0.508	0.762	1.778	3.302	5.08	6.604	8.382
	HI-4730	/	/	0.254	0.508	1.016	2.032	3.048	4.064	5.08






PULTRUDED GRATING UNIFORM LOAD TABLES

PULTRUDED GRATING UNIFORM LOAD TABLES										
Span (mm)	Type	Load kg/m ²								
		450	950	1450	2450	4850	9800	14500	19500	24400
600	HL-4020	0.034	0.068	0.119	0.187	0.374	0.748	1.123	1.497	1.854
	HL-5020	0.040	0.081	0.142	0.223	0.447	0.894	1.341	1.788	2.214
	HL-6020	0.050	0.101	0.177	0.279	0.558	1.117	1.676	2.235	2.768
750	HL-4020	0.085	0.170	0.255	0.425	0.850	1.701	2.569	3.420	4.271
	HL-5020	0.101	0.203	0.304	0.508	1.016	2.033	3.068	4.084	5.100
	HL-6020	0.127	0.254	0.381	0.635	1.27	2.55	3.835	5.105	6.375
900	HL-4020	0.170	0.340	0.510	0.850	1.718	3.043	5.139	6.858	8.577
	HL-5020	0.203	0.406	0.609	1.016	2.523	4.104	6.136	8.188	10.241
	HL-6020	0.254	0.508	0.762	1.27	2.654	5.130	7.670	10.236	12.801
1200	HL-4020	0.544	1.072	1.061	2.688	5.360	10.72	/	/	/
	HL-5020	0.650	1.280	1.930	3.210	6.400	12.80	/	/	/
	HL-6020	0.812	1.600	2.413	4.013	8.001	16.00	/	/	/

PULTRUDED GRATING UNIFORM LOAD TABLES										
Span (mm)	Type	Load kg/m ²								
		490	980	1470	1960	2450	2940	3430	3920	4410
600	HI-4710	0.508	1.016	1.524	1.778	2.286	2.794	3.302	3.81	4.318
	HI-4715	/	/	0.254	0.508	0.508	0.762	0.762	1.016	1.016
	HI-4720	/	/	/	/	0.254	0.254	0.508	0.508	0.508
	HI-4725	/	/	/	/	/	/	/	0.254	0.254
	HI-4730	/	/	/	/	/	/	/	/	/
750	HI-4710	1.016	2.286	3.302	4.572	5.588	6.858	7.874	9.144	10.16
	HI-4715	0.254	0.508	0.762	1.016	1.27	1.524	2.032	2.286	2.54
	HI-4720	/	0.254	0.508	0.508	0.762	0.762	1.016	1.016	1.27
	HI-4725	/	/	/	0.254	0.254	0.508	0.508	0.508	0.762
	HI-4730	/	/	/	/	/	0.254	0.254	0.254	0.508
900	HI-4710	2.286	4.826	7.112	9.398	11.68	/	/	/	/
	HI-4715	0.508	1.016	1.778	2.286	2.794	3.302	4.064	4.572	5.08
	HI-4720	0.254	0.508	0.762	1.016	1.27	1.524	1.778	2.032	2.286
	HI-4725	/	0.254	0.508	0.508	0.762	0.762	1.016	1.016	1.27
	HI-4730	/	/	0.254	0.254	0.508	0.508	0.508	0.762	0.762
1200	HI-4710	7.366	/	/	/	/	/	/	/	/
	HI-4715	1.778	3.556	5.334	7.112	8.89	10.66	12.44	/	/

	HI-4720	0.762	1.524	2.54	3.302	4.064	4.826	5.588	6.604	7.366
	HI-4725	1.524	2.54	3.302	1.778	2.032	2.54	3.048	3.302	0.03
	HI-4730	/	0.508	0.762	1.016	1.27	1.524	1.778	2.032	2.286

Allow Spans for Vehicular Loads

	Wheel Load(kg)(1/2 Axle Load +30% impact)	Load Distribution		Allowable Span(2,3)					Load Distribution		Allowable Span(2,3)				
		Parallel To Axle(1)	Perpendicular To Axle	HI4710	HI4715	HI4720	HI4725	HI4730	Parallel To Axle(1)	Perpendicular To Axle	HI5810	HI5815	HI5820	HI5825	HI5830
 AASHTO Standard Truck(4) 14,285 kg Axle Load Dual Wheels (*formerly AASHTO H-20)	9,443	508mm+60mm	203mm	229mm	356mm	635mm	737mm	965mm	508mm+76mm	203mm	203mm	305mm	533mm	584mm	787mm
 Automobile Traffic 2,270 kg Vehicle 681 kg Load 55% Drive Axle Load	1,008	203mm+60mm	203mm	406mm	711mm	1194mm	1448mm	1779mm	203mm+76mm	203mm	356mm	584mm	991mm	1194mm	1473mm
 5 Ton Capacity Forklift 6,538 kg Vehicle 11,078 kg Total Load 85% Drive Axle Load	6,120	279mm+60mm	279mm	203mm	330mm	533mm	635mm	813mm	279mm+76mm	279mm	203mm	279mm	457mm	533mm	686mm
 3 Ton Capacity Forklift 4,449 kg Vehicle 7,173 kg Total Load 85% Drive Axle Load	3,963	178mm+60mm	178mm	203mm	330mm	533mm	635mm	813mm	178mm+76mm	178mm	178mm	254mm	457mm	508mm	660mm
 1 Ton Capacity Forklift 1,907 kg Vehicle 2,815 kg Total Load 85% Drive Axle Load	1,555	102mm+60mm	102mm	229mm	406mm	838mm	991mm	1295mm	102mm+76mm	102mm	203mm	330mm	686mm	787mm	1067

Notes:

- (1) Load is carried by the grating load bars immediately under wheel + two additional load bars, one on each side of wheel.
- (2) Allowable span is based on a 6.4mm maximum deflection and a Factor of safety of 3.0. Other criteria may be required by certain construction codes. Check code requirements to determine design criteria.
- (3) Allowable span is strongly dependent on wheel width and vehicle weight/load capacity. If your application varies from the value given on this table, contact Strongworld engineering for application assistance.
- (4) Load based on the AASHTO standard truck load as defined in AASHTO LRFD bridge design specifications, 2nd Ed. This doesn't imply that the allowable span meet the deflection requirements of this specifications.