



PULTRUDED GRATING (Metric units)
UNIFORM LOAD TABLES - DEFLECTION IN mm

SPAN IN mm	STYLE	LOAD IS KN/SQm (UNIFORM)														MAXIMUM RECOMMENDED	APPARENT EI x 10 ⁶ N-mm ² /m
		3	5	8	10	13	15	20	25	39	50	100	150	200	250		
400	1" I-60	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.2	1.6	3.2	4.8	6.4	8.0	279	10.43
	1" I-40	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.8	1.1	2.1	3.2	4.3	5.3	419	15.60
	1 1/2" I-60	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.4	2.1	2.8	3.5	383	23.69
	1 1/2" I-40	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.9	1.4	1.9	2.3	574	35.53
	2" T-50	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	1.0	1.6	2.1	2.6	520	32.24
	2" T-33	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.8	1.2	1.6	1.9	694	42.96
600	1" I-60	0.4	0.7	1.0	1.3	1.7	2.0	2.6	3.3	5.1	6.6	13.1	138	12.88			
	1" I-40	0.3	0.4	0.7	0.9	1.1	1.3	1.8	2.2	3.4	4.4	8.8	13.1	207	19.27		
	1 1/2" I-60	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	2.0	2.6	5.2	7.8	10.4	13.0	173	32.34
	1 1/2" I-40	0.1	0.2	0.3	0.3	0.5	0.5	0.7	0.9	1.4	1.7	3.5	5.2	7.0	8.7	259	48.50
	2" T-50	0.1	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.7	3.4	5.2	6.9	8.6	264	49.07
	2" T-33	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.6	1.0	1.3	2.6	3.9	5.2	6.4	353	65.42
800	1" I-60	1.2	1.9	3.1	3.9	5.0	5.8	7.7	9.6	15.1	85	13.82					
	1" I-40	0.8	1.3	2.1	2.6	3.4	3.9	5.2	6.4	10.1	12.9	126	20.68				
	1 1/2" I-60	0.4	0.7	1.2	1.5	1.9	2.2	2.9	3.7	5.7	7.4	14.7	103	36.19			
	1 1/2" I-40	0.3	0.5	0.8	1.0	1.3	1.5	2.0	2.5	3.8	4.9	9.8	14.7	155	54.33		
	2" T-50	0.3	0.5	0.7	0.9	1.2	1.4	1.8	2.3	3.5	4.5	9.0	13.6	160	58.94		
	2" T-33	0.0	0.3	0.5	0.7	0.9	1.0	1.4	1.7	2.7	3.4	6.8	10.2	13.6	214	78.49	
1000	1" I-60	2.8	4.6	7.3	9.2	11.9	13.8	51	14.19								
	1" I-40	1.8	3.1	4.9	6.1	8.0	9.2	12.3	15.3	77	21.24						
	1 1/2" I-60	1.0	1.7	2.7	3.4	4.4	5.1	6.8	8.6	13.3	67	38.07					
	1 1/2" I-40	0.7	1.1	1.8	2.3	3.0	3.4	4.6	5.7	8.9	11.4	100	57.06				
	2" T-50	0.6	1.0	1.7	2.1	2.7	3.1	4.2	5.2	8.1	10.4	101	62.70				
	2" T-33	0.5	0.8	1.2	1.6	2.0	2.3	3.1	3.9	6.1	7.8	15.6	135	83.47			
1200	1" I-60	5.6	9.3	14.9	35	14.48											
	1" I-40	3.7	6.2	9.9	12.4	52	21.71										
	1 1/2" I-60	2.1	3.5	5.6	7.0	9.1	10.5	14.0	43	38.54							
	1 1/2" I-40	1.4	2.3	3.7	4.7	6.1	7.0	9.3	11.7	66	57.81						
	2" T-50	1.2	2.1	3.3	4.1	5.4	6.2	8.3	10.3	55	65.24						
	2" T-33	0.9	1.6	2.5	3.1	4.0	4.7	6.2	7.8	12.1	15.5	75	86.95				
1400	1 1/2" I-60	3.9	6.5	10.4	12.9	28	38.63										
	1 1/2" I-40	2.6	4.3	6.9	8.6	11.2	13.0	42	57.90								
	2" T-50	2.2	3.7	6.0	7.4	9.7	11.2	14.9	45	67.21							
	2" T-33	1.7	2.8	4.5	5.6	7.3	8.4	11.2	14.0	60	89.58						
1600	1 1/2" I-60	6.6	11.0	19	38.82												
	1 1/2" I-40	4.4	7.3	11.7	14.7	29	58.19										
	2" T-50	3.8	6.3	10.1	12.6	33	67.68										
	2" T-33	2.8	4.7	7.6	9.5	12.3	14.2	45	90.24								

NOTES

- The designer should not exceed MAXIMUM REI 0
- ULTIMATE CAPACITY represents a complete and total failure of the grating.
- Walking loads, typically 2.4 kN/M², is recommended for pedestrian traffic. Deflections for worker comfort are typically limited to 9mm or SPAN divided by 120 under full live load. For a firmer feel under full live load or a 3.6 kN/M load, limit deflection to 6 MM or SPAN divided by 200.
- The allowable loads are for STATIC LOAD CONDITIONS at ambient temperatures. Allowable loads for impact or dynamic loads should be a maximum of ONE-HALF the value shown. Long term loads will result in added deflection due to creep in the material and will also require higher safety factors to ensure acceptable performance.
- For applications at elevated temperatures, consult your manufacturer.