

phenolic

## Phenolic Gratings

Uniform Distributed Loads (UDL) – kN/m<sup>2</sup>



Mesh	38mm Square Moulded		38mm Rectangular Moulded Superspan™		40mm Rectangular Pultruded	
	38x38mm	38x152mm	38x152mm	38x152mm	38x152mm	38x152mm
Span (mm)	UDL (kN/m <sup>2</sup> )	Deflection (mm)	UDL (kN/m <sup>2</sup> )	Deflection (mm)	UDL (kN/m <sup>2</sup> )	Deflection (mm)
300	214.23	1.5	131.83	1.5	479.87	1.5
400	90.38	2.0	55.62	2.0	202.44	2.0
500	46.27	2.5	58.84	2.5	103.65	2.5
600	21.05	3.0	46.82	3.0	67.03	3.0
700	13.26	3.5	29.49	3.5	42.21	3.5
800	8.88	4.0	22.92	4.0	28.28	4.0
900	6.24	4.5	16.10	4.5	19.86	4.5
1000	4.55	5.0	11.74	5.0	14.48	5.0
1100	3.42	5.5	8.82	5.5	10.88	5.5
1200	2.63	6.0	6.79	6.0	8.38	6.0
1300	2.07	6.5	5.34	6.5	6.59	6.5
1400	1.66	7.0	4.28	7.0	5.28	7.0
1500	1.35	7.5	3.48	7.5	4.29	7.5
1600	-	-	2.87	8.0	3.53	8.0
1700	-	-	2.39	8.5	2.95	8.5
1800	-	-	2.01	9.0	2.48	9.0
1900	-	-	1.71	9.5	2.11	9.5
2000	-	-	1.47	10.0	1.81	10.0
2100	-	-	-	-	1.49	10.0

Clear span – Deflection limited to L/200

1.50 kN/m <sup>2</sup>	1447mm	1985mm	2096mm
3.00 kN/m <sup>2</sup>	1149mm	1576mm	1690mm
5.00 kN/m <sup>2</sup>	969mm	1329mm	1425mm
7.50 kN/m <sup>2</sup>	846mm	1161mm	1245mm

## Phenolic Gratings

Concentrated Load (kN/300mm width at mid span)

Mesh	38mm Square Moulded		38mm Rectangular Moulded Superspan™		40mm Rectangular Pultruded	
	38x38mm	38x152mm	38x152mm	38x152mm	38x152mm	38x152mm
Span (mm)	C/L (kN)	Deflection (mm)	C/L (kN)	Deflection (mm)	C/L (kN)	Deflection (mm)
300	40.17	1.5	24.72	1.5	98.18	1.5
400	22.60	2.0	13.90	2.0	55.20	2.0
500	14.46	2.5	18.39	2.5	35.33	2.5
600	7.89	3.0	17.56	3.0	24.53	3.0
700	5.80	3.5	12.90	3.5	20.51	3.5
800	4.44	4.0	11.46	4.0	15.70	4.0
900	3.07	4.5	9.06	4.5	13.70	4.5
1000	2.48	5.0	7.34	5.0	11.09	5.0
1100	2.05	5.5	6.06	5.5	9.46	5.5
1200	1.72	6.0	5.09	6.0	7.94	6.0
1300	1.47	6.5	4.34	6.5	6.77	6.5
1400	1.27	7.0	3.74	7.0	5.84	7.0
1500	1.10	7.5	3.26	7.5	5.08	7.5
1600	-	-	2.87	8.0	4.47	8.0
1700	-	-	2.54	8.5	3.96	8.5
1800	-	-	2.26	9.0	3.53	9.0
1900	-	-	2.03	9.5	3.17	9.5
2000	-	-	1.83	10.0	2.86	10.0
2100	-	-	-	-	2.47	10.0
2200	-	-	-	-	2.15	10.0
2300	-	-	-	-	1.88	10.0