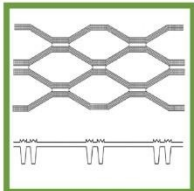




ABRA SAFE® WALKWAY GRATING

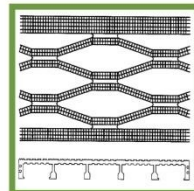
Standard Aluminium Grating

Dimension Data



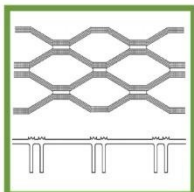
AB13600 - 13mm Load Bar Grating

Length 6000mm (+100-0)
Width 600mm (± 3)
Depth 13mm
Weight 26.778kg (7.438kg m²)



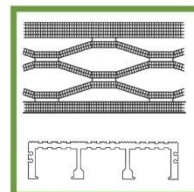
AB30500 - 30mm Load Bar Grating

Length 6000mm (+100-0)
Width 500mm (± 3)
Depth 30mm
Weight 46.752kg (15.584kg m²)



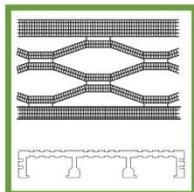
AB22600 - 22mm Load Bar Grating

Length 6000mm (+100-0)
Width 600mm (± 3)
Depth 22mm
Weight 33.726kg (9.368kg m²)



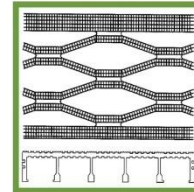
AB40250 - 40mm Load Bar Grating

Length 6000mm (+100-0)
Width 250mm (± 3)
Depth 40mm
Weight 30.36kg (20.24kg m²)



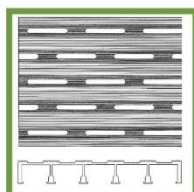
AB30250 - 30mm Load Bar Grating

Length 6000mm (+100-0)
Width 250mm (± 3)
Depth 30mm
Weight 27.228kg (18.152kg m²)



AB40500 - 40mm Load Bar Grating

Length 6000mm (+100-0)
Width 500mm (± 3)
Depth 40mm
Weight 51.774kg (17.258kg m²)



AB30250S - 30mm Load Bar Grating

Length 6000mm (+100-0)
Width 250mm (± 3)
Depth 30mm
Weight 28.17kg (18.78kg m²)

- Abra Safe Aluminium grating products are manufactured from 6063-T6 alloy to AS/NZS 1866-1997

- Panels to be fabricated and fixed in accordance with the manufacturers recommendations

AS/NZS 1866 - 1997

SAFETY

LOAD TABLES
GRATING PANELS 13 & 22mm / 600 X 6000
SINGLE SPAN

Load Condition	Loading Criteria	13mm Load Bar					
		500	620	700	800	900	1000
UDL	Max Load Capacity (kPa)	4.8	2.5	1.8	1.0	0.8	-
Load 600 wide Panel	Max Deflection (mm)	2.5	3.2	3.5	4.0	4.5	-

SINGLE SPAN

Load Condition	Loading Criteria	22mm Load Bar					
		580	600	700	800	850	920
UDL	Max Load Capacity (kPa)	7.0	6.3	4.3	2.8	2.5	2.0
Load 600 wide Panel	Max Deflection (mm)	2.8	3.0	3.5	4.0	4.2	4.6

For continuous spans of equal length multiply load values by a factor of 1.4. Where the loading is to be constant, values for the span can be increased by a factor of 1.087.

LOAD TABLES
SLOTTED ALUMINIUM PANELS - 30 X 250 X 6000MM
SINGLE SPAN

Load Condition	Loading Criteria	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000
UDL	Max Load Capacity (kPa)	48.1	33.4	24.5	18.8	14.8	12.0	9.9	8.3	7.1	6.1	5.3	4.7	4.2	3.7	3.3	3.0
Load 250 wide Panel	Max Deflection (mm)	4.7	6.7	9.1	11.9	15.1	18.6	22.5	26.8	31.5	36.5	41.9	47.6	53.8	60.3	67.2	74.4
	Safe Load Limit (kPa) for Span/200	-	22.4	14.1	9.5	6.6	4.8	3.6	2.8	2.2	1.8	1.4	1.2	1.0	0.8	0.7	0.6
LINE LOAD	Max Load Capacity (kN)	4.5	3.8	3.2	2.8	2.5	2.3	2.0	1.9	1.7	1.6	1.5	1.4	1.3	1.3	1.2	1.1
Load 250 wide Panel	Max Deflection (mm)	3.7	5.4	7.3	9.5	12.1	14.9	18.0	21.4	25.2	29.2	33.5	38.1	43.0	48.2	53.7	59.6
	Safe Load Limit (kN) for Span/200	-	-	2.3	1.8	1.4	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.4	0.3	0.3

DOUBLE SPAN

Load Condition	Loading Criteria	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000
UDL	Max Load Capacity (kPa)	48.1	33.4	24.5	18.8	14.8	12.0	9.9	8.3	7.1	6.1	5.3	4.7	4.2	3.7	3.3	3.0
Load 250 wide Panel	Max Deflection (mm)	1.8	2.6	3.6	4.7	5.9	7.3	8.9	10.6	12.4	14.4	16.5	18.8	21.2	23.7	26.5	29.3
	Safe Load Limit (kPa) for Span/200	-	-	-	-	-	-	-	-	-	-	3.7	3.1	2.6	2.2	1.8	1.6
LINE LOAD	Max Load Capacity (kN)	5.6	4.7	4.0	3.5	3.1	2.8	2.6	2.3	2.2	2.0	1.9	1.8	1.7	1.6	1.5	1.4
Load 250 wide Panel	Max Deflection (mm)	2.0	2.9	4.0	5.2	6.6	8.1	9.8	11.7	13.7	15.9	18.3	20.8	23.5	26.3	29.3	32.5
	Safe Load Limit (kN) for Span/200	-	-	-	-	-	-	-	-	1.5	1.3	1.2	1.0	0.9	0.8	0.7	0.7

TRIPLE SPAN

Load Condition	Loading Criteria	750	900	1050	1200	1350	1500	1650	1800	1950	2000
UDL	Max Load Capacity (kPa)	54.1	35.7	26.2	20.1	15.9	12.8	10.6	8.9	7.6	7.2
Load 250 wide Panel	Max Deflection (mm)	2.6	3.7	5.1	6.7	8.4	10.4	12.6	15.0	17.6	18.5
	Safe Load Limit (kPa) for Span/200	-	-	-	-	-	-	3.5	2.7	2.1	2.0
LINE LOAD	Max Load Capacity (kN)	5.3	4.4	3.8	3.3	2.9	2.6	2.4	2.2	2.0	2.0
Load 250 wide Panel	Max Deflection (mm)	2.4	3.4	4.7	6.1	7.8	9.6	11.6	13.8	16.2	17.0
	Safe Load Limit (kN) for Span/200	-	-	-	-	-	-	1.7	1.4	1.2	1.2

LOAD TABLES
GRATING - 30 X 500MM WIDE PANEL
SINGLE SPAN

Load Condition	Loading Criteria	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000
UDL	Max Load Capacity (kPa)	27.0	18.8	13.8	10.6	8.3	6.8	5.6	4.7	4.0	3.5	3.0	2.6	2.3	2.1	1.9	1.7
Load 500 wide Panel	Max Deflection (mm)	4.4	6.4	8.7	11.4	14.4	17.7	21.5	25.5	30.0	34.8	39.9	45.4	51.3	57.5	64.0	71.0
	Safe Load Limit (kPa) for Span/200	22.9	13.2	8.3	5.6	3.9	2.9	2.1	1.7	1.3	1.0	0.8	0.7	0.6	0.5	0.4	0.4
LINE LOAD	Max Load Capacity (kN)	5.1	4.2	3.6	3.2	2.8	2.5	2.3	2.1	2.0	1.8	1.7	1.6	1.5	1.4	1.3	1.3
Load 500 wide Panel	Max Deflection (mm)	3.6	5.1	7.0	9.1	11.5	14.2	17.2	20.4	24.0	27.8	31.9	36.3	41.0	46.0	51.2	56.8
	Safe Load Limit (kN) for Span/200	-	3.7	2.7	2.1	1.7	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3

DOUBLE SPAN

Load Condition	Loading Criteria	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000
UDL	Max Load Capacity (kPa)	27.0	18.8	13.8	10.6	8.3	6.8	5.6	4.7	4.0	3.5	3.0	2.6	2.3	2.1	1.9	1.7
Load 500 wide Panel	Max Deflection (mm)	1.7	2.5	3.3	4.4	5.5	6.8	8.2	9.8	11.5	13.4	15.3	17.4	19.7	22.1	24.6	27.2
	Safe Load Limit (kPa) for Span/200	-	-	-	-	-	-	5.6	4.3	3.4	2.7	2.2	1.8	1.5	1.3	1.1	0.9
LINE LOAD	Max Load Capacity (kN)	6.8	5.6	4.8	4.3	3.7	3.3	3.0	2.8	2.6	2.4	2.2	2.1	1.9	1.8	1.7	1.6
Load 500 wide Panel	Max Deflection (mm)	2.2	3.2	4.4	5.7	7.1	8.8	10.7	12.7	14.9	17.3	19.8	22.6	25.5	28.6	31.8	35.3
	Safe Load Limit (kN) for Span/200	-	-	-	-	3.5	2.8	2.4	2.0	1.7	1.5	1.3	1.1	1.0	0.9	0.8	0.7

TRIPLE SPAN

Load Condition	Loading Criteria	750	900	1050	1200	1350	1500	1650	1800	1950	2000
UDL	Max Load Capacity (kPa)	33.8	23.5	17.3	13.3	10.4	8.5	7.0	5.9	5.0	4.7
Load 500 wide Panel	Max Deflection (mm)	2.9	4.2	5.7	7.4	9.4	11.5	14.0	16.7	19.5	20.5
	Safe Load Limit (kPa) for Span/200	-	-	15.9	10.7	7.5	5.5	4.1	3.2	2.5	2.3
LINE LOAD	Max Load Capacity (kN)	7.3	6.0	5.1	4.6	4.0	3.6	3.3	3.0	2.8	2.7
Load 500 wide Panel	Max Deflection (mm)	2.8	4.0	5.5	7.2	9.1	11.2	13.6	16.1	19.0	19.8
	Safe Load Limit (kN) for Span/200	-	-	4.8	3.8	3.0	2.4	2.0	1.7	1.4	1.3

LOAD TABLES
GRATING - 40 X 500MM WIDE PANEL
SINGLE SPAN

Load Condition	Loading Criteria	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000
UDL	Max Load Capacity (kPa)	45.5	31.6	23.3	17.8	14.0	11.4	9.4	7.9	6.7	5.8	5.1	4.4	3.9	3.5	3.1	2.8
Load 500 wide Panel	Max Deflection (mm)	3.3	4.8	6.5	8.5	10.8	13.3	16.1	19.1	22.4	26.0	29.9	34.0	38.4	43.0	48.0	53.1
	Safe Load Limit (kPa) for Span/200	-	29.7	18.7	12.5	8.8	6.4	4.8	3.7	2.9	2.3	1.9	1.6	1.3	1.1	0.9	0.8
LINE LOAD	Max Load Capacity (kN)	8.5	7.1	6.1	5.3	4.7	4.3	3.9	3.6	3.3	3.0	2.8	2.7	2.5	2.4	2.2	2.1
Load 500 wide Panel	Max Deflection (mm)	2.7	3.8	5.2	6.8	8.6	10.6	12.9	15.3	18.0	20.8	23.9	27.2	30.7	34.4	38.4	42.5
	Safe Load Limit (kN) for Span/200	-	-	6.1	4.7	3.7	3.0	2.5	2.1	1.8	1.5	1.3	1.2	1.0	0.9	0.8	0.8

DOUBLE SPAN

Load Condition	Loading Criteria	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000
UDL	Max Load Capacity (kPa)	45.5	31.6	23.2	17.8	14.0	11.4	9.4	7.9	6.7	5.8	5.1	4.4	3.9	3.5	3.1	2.8
Load 500 wide Panel	Max Deflection (mm)	1.3	1.8	2.5	3.3	4.1	5.1	6.2	7.3	8.6	10.0	11.5	13.1	14.7	16.5	18.4	20.4
	Safe Load Limit (kPa) for Span/200	-	-	-	-	-	-	-	-	-	-	5.0	4.1	3.4	2.9	2.4	2.1
LINE LOAD	Max Load Capacity (kN)	11.3	9.4	8.1	7.0	6.2	5.7	5.2	4.8	4.4	4.0	3.7	3.5	3.3	3.2	3.0	2.8
Load 500 wide Panel	Max Deflection (mm)	1.7	2.3	3.2	4.3	5.4	6.7	8.1	9.5	11.3	13.1	15.0	17.0	19.1	21.4	23.9	26.5
	Safe Load Limit (kN) for Span/200	-	-	-	-	-	-	-	4.5	3.8	3.2	2.8	2.5	2.2	2.0	1.8	1.6

TRIPLE SPAN

Load Condition	Loading Criteria	750	900	1050	1200	1350	1500	1650	1800	1950	2000
UDL	Max Load Capacity (kPa)	56.9	39.5	29.0	22.2	17.5	14.2	11.7	9.8	8.3	7.8
Load 500 wide Panel	Max Deflection (mm)	2.1	3.1	4.2	5.6	7.0	8.7	10.5	12.4	14.6	15.3
	Safe Load Limit (kPa) for Span/200	-	-	-	-	16.8	12.2	9.2	7.1	5.3	4.7
LINE LOAD	Max Load Capacity (kN)	12.1	10.2	8.7	7.6	6.7	6.1	5.6	5.1	4.7	4.5
Load 500 wide Panel	Max Deflection (mm)	2.1	3.0	4.1	5.4	6.8	8.4	10.2	12.0	14.2	14.6
	Safe Load Limit (kN) for Span/200	-	-	-	-	6.6	5.4	4.5	3.8	3.2	3.1

LOAD TABLES
ALUMINIUM CATWALK SYSTEM

SINGLE SPAN		2.5 kPa			4.0 kPa		
	Nominal Width (mm)	Handrail Both Sides	Hanrail One Side	No Handrail	Handrail Both Sides	Hanrail One Side	No Handrail
	600	7.7	6.5	6.2	6.2	5.3	5.0
	900	6.4	5.4	5.1	5.1	4.3	4.1
	1200	5.4	4.6	4.3	4.4	3.7	3.5
DOUBLE SPAN		2.5 kPa			4.0 kPa		
	Nominal Width (mm)	Handrail Both Sides	Hanrail One Side	No Handrail	Handrail Both Sides	Hanrail One Side	No Handrail
	600	8.1	6.9	6.5	6.5	5.5	5.2
	900	6.7	5.8	5.4	5.4	4.6	4.3
	1200	5.7	4.9	4.6	4.6	3.9	3.7
TRIPLE SPAN		2.5 kPa			4.0 kPa		
	Nominal Width (mm)	Handrail Both Sides	Hanrail One Side	No Handrail	Handrail Both Sides	Hanrail One Side	No Handrail
	600	8.5	7.3	6.8	6.8	5.8	5.4
	900	7.1	6.0	5.6	5.6	4.8	4.5
	1200	5.9	5.0	4.7	4.8	4.1	3.8