

BS6180 Balustrade & Barrier Loading Requirements

		Quick Ref	Horizontal uniformly distributed line load (kN/m)	Uniformly distributed load applied to the infill (kN/m ²)	A point load applied to part of the infill (kN)
Domestic and residential activities	i) All areas within or serving exclusively one single family dwelling including stairs, landings, etc. but excluding external balconies and edges of roofs	1	0.36	0.5	0.25
	ii) Other residential, i.e. houses of multiple occupancy and balconies, including Juliette balconies and edges of roofs in single family dwellings	2	0.74	1	0.5
Offices and work areas not included elsewhere, including storage areas	iii) Light access stairs and gangways not more than 600 mm wide	3	0.22	-	-
	iv) Light pedestrian traffic routes in industrial and storage buildings except designated escape routes	4	0.36	0.5	0.25
	v) Areas not susceptible to overcrowding in office and institutional buildings, also industrial and storage buildings except as given above	5	0.74	1	0.5
Areas where people might congregate	(vi) Areas having fixed seating within 530 mm of the barrier, balustrade or parapet	6	1.5	1.5	1.5
Areas with tables or fixed seatings	vii) Restaurants and bars	7	1.5	1.5	1.5
Areas without obstacles for moving people and not susceptible to overcrowding	viii) Stairs, landings, corridors, ramps	8	0.74	1	0.5
	ix) External balconies including Juliette balconies and edges of roofs. Footways and pavements within building curtilage adjacent to basement/sunken areas	9	0.74	1	0.5
Areas susceptible to overcrowding	x) Footways or pavements less than 3 m wide adjacent to sunken areas	10	1.5	1.5	1.5
	xi) Theatres, cinemas, discotheques, bars, auditoria, shopping malls, assembly areas, studio. Footways or pavements greater than 3 m wide adjacent to sunken areas.	11	3	1.5	1.5
	(xii) Grandstands and stadia	12	A		
Retail areas	(xiii) All retail areas including public areas of banks/building societies or betting shops	13	1.5	1.5	1.5
Vehicular	xiv) Pedestrian areas in car parks, including stairs, landings, ramps, edges or internal floors, footways, edges of roofs	14	1.5	1.5	1.5
	(xv) Horizontal loads imposed by vehicles B)	15	B		

A) See requirements of the appropriate certifying authority.

B) See Annex A. of BS6180

DEFENDER Load Table



Certificate Number	Base Channel		Glass		Fixing		Balustrade Height		Loading Max (kN/m)	BS6180 Suitability - Quick Ref # from BS 6180 Summary Table													
	White Metal Quick Code	Defender Code	Thickness	Lamination Type	Size	Centres	Overall (mm)	Glass Height (mm)		1	2	3	4	5	6	7	8	9	10	11	13	14	
										0.36	0.74	0.22	0.36	0.74	1.50	1.50	0.74	0.74	1.50	3.00	1.50	1.50	
2020/2374	870	DF88LM	17.5	PVB	M10	400	1100	1075	0.86	✓	✓	✓	✓	✓	✗	✗	✓	✓	✗	✗	✗	✗	
2019/0877	870	DF88LM	16.89	SG	M10	200	1220	1195	0.96	✓	✓	✓	✓	✓	✗	✗	✓	✓	✗	✗	✗	✗	
2019/0876	871	DF88FR	16.89	SG	M10	200	1100	1195	0.8	✓	✓	✓	✓	✓	✗	✗	✓	✓	✗	✗	✗	✗	
2019/2982	872	DF88DK	17.5	PVB	M10	400	1220	1195	1.03	✓	✓	✓	✓	✓	✗	✗	✓	✓	✗	✗	✗	✗	
2021/0987	970	DF1010LM	21.5	PVB	M10	400	1100	1075	1.54	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓	✓	✓	
2020/0636	970	DF1010LM	21.5	PVB	M10	400	1220	1195	1.19	✓	✓	✓	✓	✓	✗	✗	✓	✓	✗	✗	✗	✗	
2020/0638	970	DF1010LM	20.89	SG	M10	200	1220	1195	2.08	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓	✓	✓	
2020/0637	971	DF1010FR	21.5	PVB	M10	400	1100	1195	1.1	✓	✓	✓	✓	✓	✗	✗	✓	✓	✗	✗	✗	✗	
2020/0639	971	DF1010FR	20.89	SG	M10	200	1100	1195	1.7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓	✓	✓	
2020/2376	972	DF1010DK	21.5	PVB	M10	600	1220	1195	1.14	✓	✓	✓	✓	✓	✗	✗	✓	✓	✗	✗	✗	✗	
2020/2375	972	DF1010DK	21.5	EVA	M10	600	1220	1195	1.09	✓	✓	✓	✓	✓	✗	✗	✓	✓	✗	✗	✗	✗	
2020/2372	973	DF1010SP	21.5	PVB	M10	200	1100	1195	0.97	✓	✓	✓	✓	✓	✗	✗	✓	✓	✗	✗	✗	✗	
2020/2373	973	DF1010SP	21.5	EVA	M10	200	1100	1195	1.06	✓	✓	✓	✓	✓	✗	✗	✓	✓	✗	✗	✗	✗	
2020/0640	960	DF1212LM	25.5	DG41	M10	400	1220	1195	2.15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓	✓	✓	
2020/2381	960	DF1212LM	24.89	SG	M10	100**	1100	1075	4.54	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

** Extra Fixing Holes Drilled in base channel