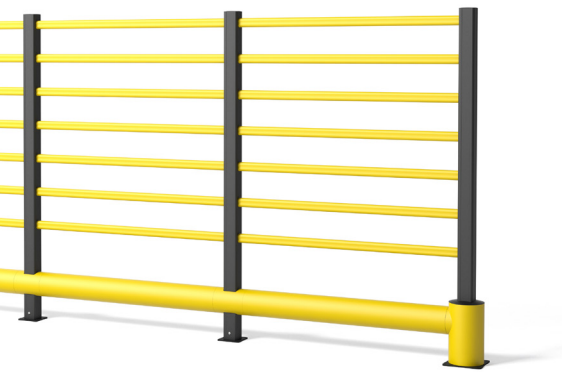


TB 400 GRILL BARRIER BOPLAN SPECIFICATION SHEET

Revision: 6 December 2019 11:53 AM
Boplan reference: GB4...



PRODUCT SPECIFICATIONS

APPLICATION

Environment	Single tube traffic barrier protects people against the impact of forklifts and falling goods. Depending on the size of the (stacked) goods, one can opt for an arrangement with a centre distance between the rails of 275 mm or 550 mm.	
Advisory speed	9.0 km/h	For gross weight vehicle of 2500 kg
	6.5 km/h	For gross weight vehicle of 5000 kg

MATERIAL

Posts and rails	Polyolefin - UV resistant - Fire class HB [*] - Non conductive - Impervious to most chemical products ^{**}
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STANDARD COLORS

End post	Yellow
Mid post	Yellow
Impact tube	Yellow
Handrails	Yellow

BASEPLATES

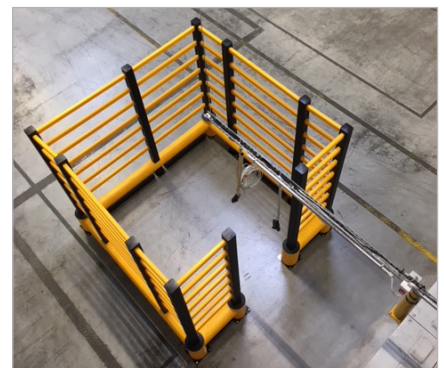
	Steel	Zinc Coated Steel	Stainless steel
Material	Steel 37		
Coating	Lacquered		
Color	High gloss black		

FIXATIONS

	ZINC COATED	INOX
CONCRETE SCREW 	Length = 100 mm Size = Ø12 mm Drill hole Ø screw = 10 mm Sw: 15 mm Max load (pull out) = 7.7 kN	
THREADED ROD (WITH CHEMICAL ANCHOR) 	Length = 120 mm Size = M12 Drill hole diameter = 14 mm Max load (pull out) = 16 kN	

*Fire class HB = Slow burning; classification according to UL94: US Standard for Safety of Flammability of Plastics

**Ask your local sales office for resistance to specific chemicals.



FEATURES AND FUNCTIONALITY

SIZE

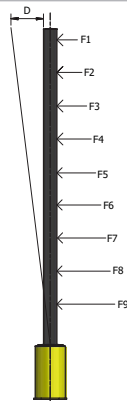
Height end posts	maximum 3075 mm
Height mid post	maximum 3075 mm
Profile section tubes	Ø200 mm (11 mm thick)
Profile section handrails	50 mm x 70 mm (6 mm thick)
Profile section end posts	Outer tube: Ø250 mm (11 mm thick) Inner profile: 112 mm x 112 mm (10 mm thick)
Profile section mid posts	Profile: 112 mm x 112 mm (10 mm thick)
Standard rail length (cc)	1350mm (center - center 1600mm)
Baseplate	End Post: 275 mm x 275 mm x 10 mm Mid Post: 180 mm x 180 mm x 10 mm

IMPACT PERFORMANCE

Test conditions	Ambient temperature	20°C
	Tube length	1600mm (center - center)
90° impact	Fork lift weight	2300kg
	Floor	Industrial concrete
45° impact	Success criteria	Fork lift stopped by barrier
	Impact height	500mm (on tubes)
90° impact	Maximum impact on post	16100 Joule
	Maximum impact on tube	20100 Joule
45° impact	Maximum impact on tube	28400 Joule

HOLDING POWER

	Force*	Deflection**
3075mm - 9R	F9 = 2600 N	825 mm
2800mm - 8R	F8 = 2900 N	780 mm
2525mm - 7R	F7 = 3300 N	730 mm
2250mm - 6R	F6 = 3800 N	665 mm
1975mm - 5R	F5 = 4500 N	585 mm
1700mm - 4R	F4 = 5600 N	505 mm
1425mm - 3R	F3 = 7300 N	405 mm
1150mm - 2R	F2 = 10800 N	300 mm
875mm - 1R	F1 = 19500 N	175 mm

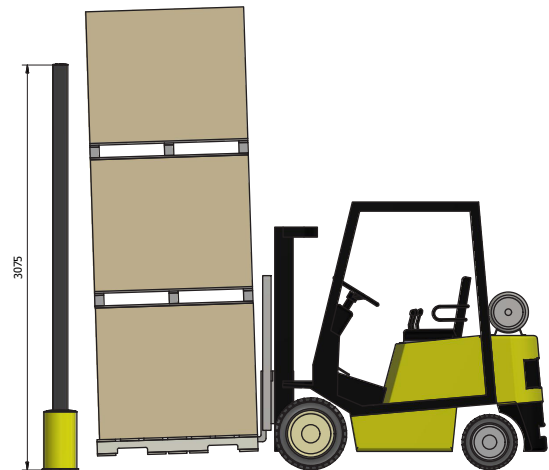
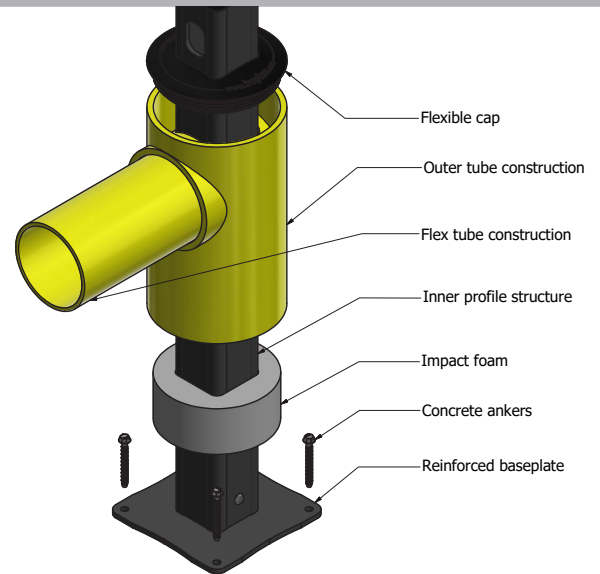


* Force acting on the center of the hand rails (between posts)
** Deflection (D) measured on top side.

REQUIREMENTS

Concrete quality	minimum C25/30
Concrete floor plate thickness (mm)	minimum 15mm
Concrete slab dimension around posts (mm)	not advised
Operational temperature	-10°C up to +40°C
Water and humidity	Steel (standard): dry indoor use only. Zinc coated : outdoor use in most environments. RVS : outdoor use or frequent exposure to water and humidity.

EXPLODED VIEW



REFERENCE LIST

POSTS - 550 mm rail distance

	End post	Mid post	Corner post 90° Up	Corner post 90° Down	T-end post (incl. caps)
3075mm - 5R	GB4550-3075-EPYE	GB4550-3075-MPYE	GB4550-3075-CPUYE	GB4550-3075-CPDYE	GB4550-3075-TPYE
2525mm - 4R	GB4550-2525-EPYE	GB4550-2525-MPYE	GB4550-2525-CPUYE	GB4550-2525-CPDYE	GB4550-2525-TPYE
1975mm - 3R	GB4550-1975-EPYE	GB4550-1975-MPYE	GB4550-1975-CPUYE	GB4550-1975-CPDYE	GB4550-1975-TPYE
1425mm - 2R	GB4550-1425-EPYE	GB4550-1425-MPYE	GB4550-1425-CPUYE	GB4550-1425-CPDYE	GB4550-1425-TPYE

POSTS - 275 mm rail distance

	End post	Mid post	Corner post 90° Up	Corner post 90° Down	T-end post (incl. caps)
3075mm - 9R	GB4275-3075-EPYE	GB4275-3075-MPYE	GB4275-3075-CPUYE	GB4275-3075-CPDYE	GB4275-3075-TPYE
2525mm - 7R	GB4275-2525-EPYE	GB4275-2525-MPYE	GB4275-2525-CPUYE	GB4275-2525-CPDYE	GB4275-2525-TPYE
1975mm - 5R	GB4275-1975-EPYE	GB4275-1975-MPYE	GB4275-1975-CPUYE	GB4275-1975-CPDYE	GB4275-1975-TPYE
1425mm - 3R	GB4275-1425-EPYE	GB4275-1425-MPYE	GB4275-1425-CPUYE	GB4275-1425-CPDYE	GB4275-1425-TPYE

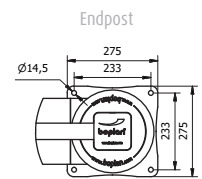
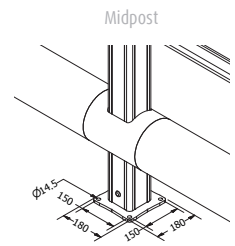
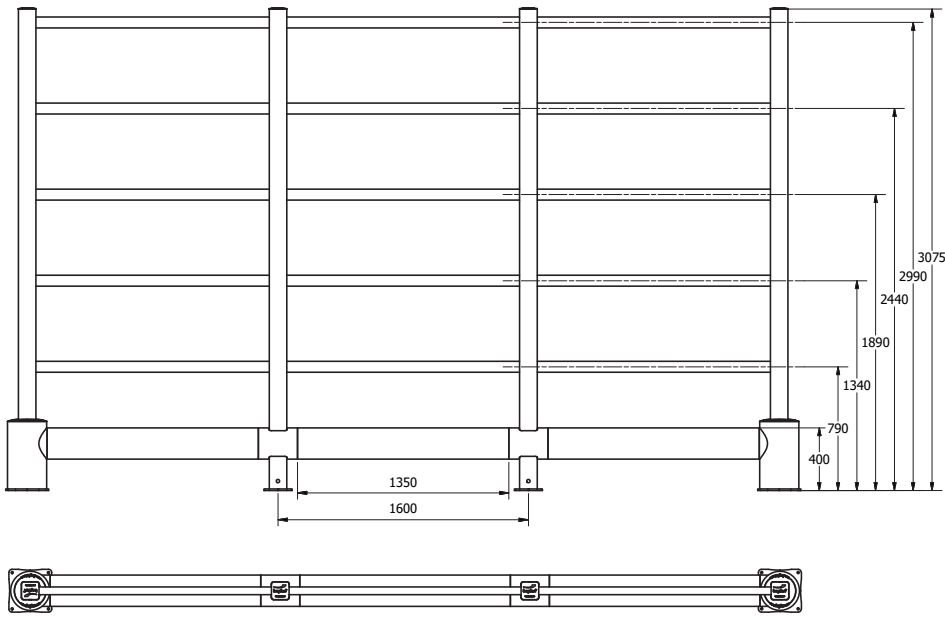
RAIL SETS

	CC1000mm 750mm - YE	CC1200mm 950mm - YE	CC1400mm 1150mm - YE	CC1600mm 1350mm - YE	CC1800mm 1550mm - YE	CC2000mm 1750mm - YE	Short rail CC850-1599 - YE	Long rail CC1601-2000 - YE	Conn.tube Ø250 350mm - 90° - YE
9R	GBR900-0750-1000YE	GBR900-0950-1200YE	GBR900-1150-1400YE	GBR900-1350-1600YE	GBR900-1550-1800YE	GBR900-1750-2000YE	GBR909-1599-SRYE	GBR909-2000-LRYE	GBR900-0350-C259YE
7R	GBR700-0750-1000YE	GBR700-0950-1200YE	GBR700-1150-1400YE	GBR700-1350-1600YE	GBR700-1550-1800YE	GBR700-1750-2000YE	GBR709-1599-SRYE	GBR709-2000-LRYE	GBR700-0350-C259YE
5R	GBR500-0750-1000YE	GBR500-0950-1200YE	GBR500-1150-1400YE	GBR500-1350-1600YE	GBR500-1550-1800YE	GBR500-1750-2000YE	GBR509-1599-SRYE	GBR509-2000-LRYE	GBR500-0350-C259YE
4R	GBR400-0750-1000YE	GBR400-0950-1200YE	GBR400-1150-1400YE	GBR400-1350-1600YE	GBR400-1550-1800YE	GBR400-1750-2000YE	GBR409-1599-SRYE	GBR409-2000-LRYE	GBR400-0350-C259YE
3R	GBR300-0750-1000YE	GBR300-0950-1200YE	GBR300-1150-1400YE	GBR300-1350-1600YE	GBR300-1550-1800YE	GBR300-1750-2000YE	GBR309-1599-SRYE	GBR309-2000-LRYE	GBR300-0350-C259YE
2R	GBR200-0750-1000YE	GBR200-0950-1200YE	GBR200-1150-1400YE	GBR200-1350-1600YE	GBR200-1550-1800YE	GBR200-1750-2000YE	GBR209-1599-SRYE	GBR209-2000-LRYE	GBR200-0350-C259YE

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Rails 550mm center - center



Rails 275 mm center - center

