



# RE RACK END BOPLAN RACK PROTECTOR SPECIFICATION SHEET

Revision: 10 August 2021 4:07 PM  
Boplan reference: RE200 ...

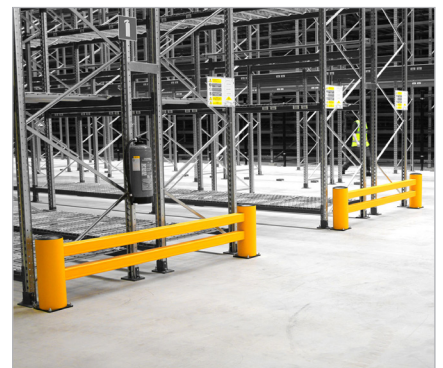
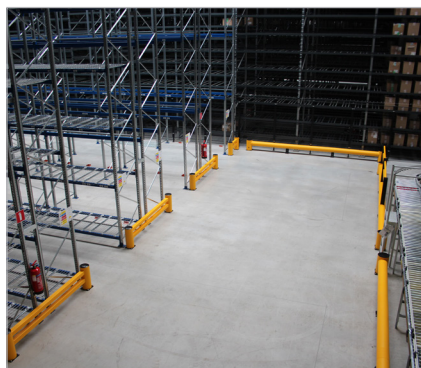


## PRODUCT SPECIFICATIONS

APPLICATION			
Environment	The RE Rack End is the optimal protection for your rack ends, with the two bollards offering optimal protection to your corner uprights. Driving over the chamfered fixations does not damage them.		
Impact performance at 90° (in Joule)	END POST: 3000 Joule (Eq. to 2,5 ton - 5,5 km/h)		
	RAIL: 8500 Joule (Eq. to 2,5 ton - 9,3 km/h)		
MATERIAL			
	Polyolefin - UV resistant - Fire class E <sup>+</sup> - Non conductive - Impervious to most chemicals <sup>**</sup>		
STANDARD COLORS			
Rails	Yellow		
Posts	Yellow		
BASEPLATES			
	Steel (CHF)	Zinc Coated Steel (CHF)	Stainless steel (CHF)
Material	Steel 37	Steel 37	SS 304
Coating	Lacquered	Lacquered + electro plating	No lacquer / No coating
Color	High gloss black	Matt black	Natural color

<sup>\*</sup>Classification according to EN 13501-1:2007 +A1:2009 - Fire classification of construction products and building elements.  
<sup>\*\*</sup>Ask your local sales office for resistance to specific chemicals.

FIXATIONS			
		ZC (Zinc coated)	SS (Stainless steel)
STANDARD	Wedge anchor	Not available	Not available
	Wedge anchor Countersunk	Ø12mm (M8) x 90mm	Ø12mm (M8) x 85mm
	Anchor rod (Chemical)	Not available	Not available
ALTERNATIVES	Concrete screw	Not available	Not available
	Asphalt anchor	Not available	Not available
	Spit anchor	Not available	Not available



**FEATURES AND FUNCTIONALITY - RACK END**

SIZE	
Height end/mid posts	530 mm
Height rail support post	510 mm
Profile section rails	88 mm x 88 mm (7.5mm thick)
Profile section end/mid posts	Outer tube: Ø200 mm (11 mm thick) Inner profile: 112 mm x 112 mm (10 mm thick)
Profile section support post	Profile: 112 mm x 112 mm (10 mm thick)
Standard rail length	2200 mm (variable: 750mm - 3200mm)
Baseplates	End Post: 210 mm x 210 mm (10 mm thick) Mid Post: 180 mm x 180 mm (10 mm thick)

REQUIREMENTS	
Concrete quality	minimum C25/30
Concrete floor plate thickness (mm)	minimum 150 mm
Concrete slab dimension around posts (mm)	500 (h) x 500 (w) x 400 (d)
Rack ends longer than 2500 mm	Add a rail support post
Operational temperature	-10°C up to +40°C
Water and humidity	<b>Steel</b> (standard): dry indoor use only. <b>Zinc coated:</b> outdoor use in most environments. <b>Stainless Steel:</b> outdoor use or frequent exposure to water and humidity.

### IMPACT LABEL FOR SAFETY BARRIERS

BOPLAN RE RACK END		
IMPACT RATING	45°	90° <small>PAS 13:2017 compliant</small>
E80 < 80 kJ		
E60 < 60 kJ		
E50 < 50 kJ		
E40 < 40 kJ		
E35 < 35 kJ		
E30 < 30 kJ		
E25 < 25 kJ		
E20 < 20 kJ		
E15 < 15 kJ	12,0 kJ	
E10 < 10 kJ		8,5 kJ
E5 < 5,0 kJ		
E2 < 2,5 kJ		

**TEST CONDITIONS**

TEMPERATURE: 20°C  
IMPACT HEIGHT: 420 mm  
IMPACT ANGLE: 90°  
TEST FLOOR: CONCRETE C25/30 - 160 mm  
MANUFACTURER ANCHOR PULL OUT: 13 kN

**TEST VEHICLE**

WEIGHT: 2300 KG  
TYPE: COMMERCIAL FORK LIFT  
SIZE (L x W x H): 1890 x 1020 x 1970 mm  
CONTACT AREA: STEEL BUMPER WIDTH: 600 mm

**BOPLAN TEST LAB**

Muizelstraat 12  
8560 Moorsele  
Belgium

**SUCCESS CRITERIA** VEHICLE STOPPED - ASI (ACCELERATION SEVERITY INDEX) < 0.5

## REFERENCE LIST - RACK END

### RACK END POST BO 200

End post End post - Stainless steel End post - Zinc coated	RE2009-0001-EPYE RE2009-0001-EPYES RE2009-0001-EPYEZ	
Mid post Mid post - Stainless steel Mid post - Zinc coated	RE2009-0001-MPYE RE2009-0001-MPYES RE2009-0001-MPYEZ	

### RACK END ROTOR POST BO 200

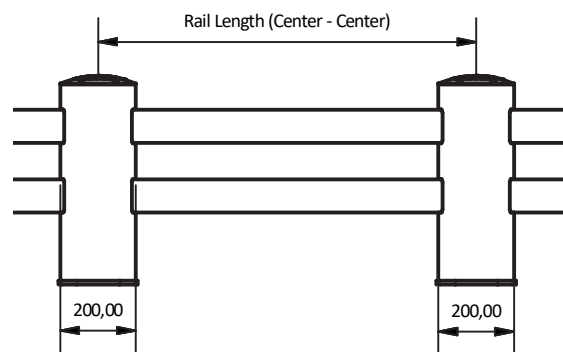
End post End post - Stainless steel End post - Zinc coated	RE2009-0001-EPRYE RE2009-0001-EPRYES RE2009-0001-EPRYEZ	
Mid post Mid post - Stainless steel Mid post - Zinc coated	RE2009-0001-MPRYE RE2009-0001-MPRYES RE2009-0001-MPRYEZ	

### RACK END RAIL SUPPORT POST

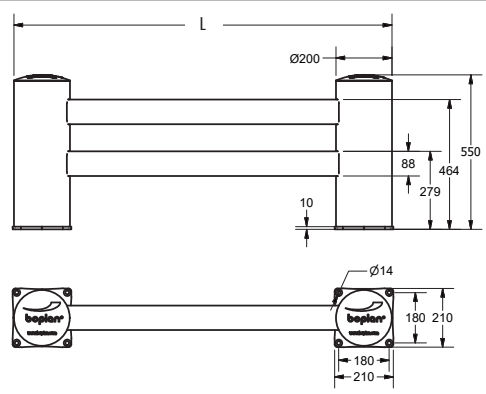
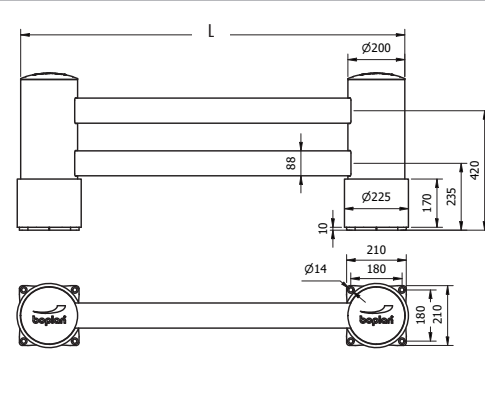
Rail support post Rail support post - Stainless steel Rail support post - Zinc coated	RE2009-0001-SPBL RE2009-0001-SPBLS RE2009-0001-SPBLZ	
---	--	--

### RAIL SETS

	Rail length	Reference
Rail set (2pcs) - YE	750mm - 1350mm	RE2009-1350-S200YE
Rail set (2pcs) - YE	1351mm - 1800mm	RE2009-1800-S200YE
Rail set (2pcs) - YE	1801mm - 2500mm	RE2009-2500-S200YE



## REFERENCE LIST - RACK END

TOTAL LENGTH (L)	BASEPLATE	RACK END BOLLARD (YELLOW)	RACK END BOLLARD WITH ROTOR (YELLOW)
1100mm	steel SS ZC	RE2000-1100-0001YE RE2000-1100-0001YES RE2000-1100-0001YEZ	RE2000-1100-R001YE RE2000-1100-R001YES RE2000-1100-R001YEZ
2200mm	steel SS ZC	RE2000-2200-0001YE RE2000-2200-0001YES RE2000-2200-0001YEZ	RE2000-2200-R001YE RE2000-2200-R001YES RE2000-2200-R001YEZ
2400mm	steel SS ZC	RE2000-2400-0001YE RE2000-2400-0001YES RE2000-2400-0001YEZ	RE2000-2400-R001YE RE2000-2400-R001YES RE2000-2400-R001YEZ
750mm - 1350mm	steel SS ZC	RE2001-1350-0001YE RE2001-1350-0001YES RE2001-1350-0001YEZ	RE2001-1350-R001YE RE2001-1350-R001YES RE2001-1350-R001YEZ
1351mm - 1800mm	steel SS ZC	RE2001-1800-0001YE RE2001-1800-0001YES RE2001-1800-0001YEZ	RE2001-1800-R001YE RE2001-1800-R001YES RE2001-1800-R001YEZ
1801mm - 2500mm	steel SS ZC	RE2001-2500-0001YE RE2001-2500-0001YES RE2001-2500-0001YEZ	RE2001-2500-R001YE RE2001-2500-R001YES RE2001-2500-R001YEZ
			
LENGTH	BASEPLATE	RACK END BOLLARD (YELLOW)	RACK END BOLLARD WITH ROTOR (YELLOW)
2501mm - 3200mm INCLUDING RAIL SUPPORT	steel SS ZC	RE2001-3200-0001YE RE2001-3200-0001YES RE2001-3200-0001YEZ	RE2001-3200-R001YE RE2001-3200-R001YES RE2001-3200-R001YEZ
		