

Material: Top - Recycled aluminium Column & base - Mild steel

Dimensions: All in mm unless otherwise stated

Finish: Steel - Galvanised mild steel & optional powder coat

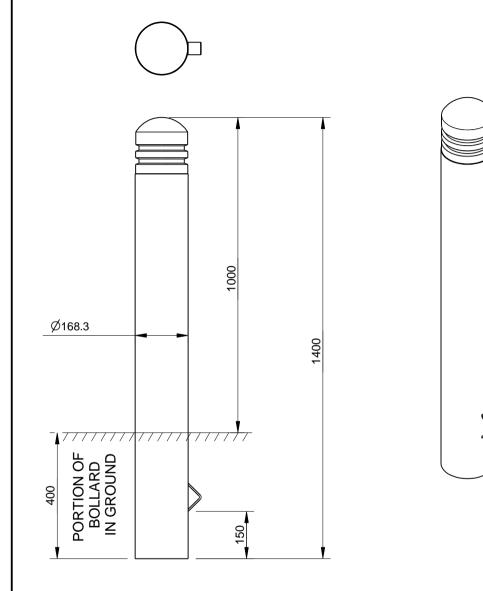
Ground Fixings: Bolt down



	#	DESCRIPTION	ΒY	DATE	DRAWN	DRAWN DATE	CH	HECKED	CHECKED DATE	SCAL	E A A
Z	1	ORIGINAL DRAWING	SJ	6.9.10	R.CRIGHTON	18.12.13				N/A	<u>-</u> A4
VISION	2	FULL PRODUCT REVIEW	RBC	18.12.13	+ $-$		F		B11 BOLLARD - BOLT DOWN SPEC.		
RFVI						FURPH	IY		SFEC	REV.	SHEET
	4 5					FOUNDRY EST. 1864	-	F	FSB008004	2	1 OF 2







Material: Top - Recycled aluminium Column & base - Mild steel

Dimensions: All in mm unless otherwise stated

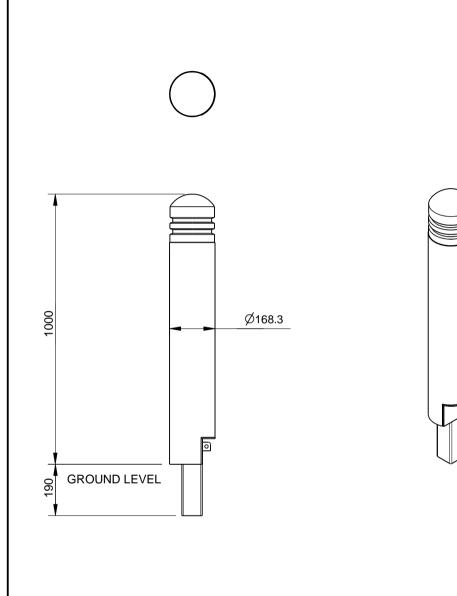
Finish: Steel - Galvanised mild steel & optional powder coat

Ground Fixings: In ground



CONFIDENTIAL

DESCRIPTION # ΒY DATE DRAWN DRAWN DATE CHECKED CHECKED DATE SCALE A4 ORIGINAL DRAWING **R.CRIGHTON** 18.12.13 N/A 1 RBC 18.12.13 REVISION 2 B11 BOLLARD - IN GROUND SPEC. 3 4 REV. SHEET FFSB008005 1 OF 2 1 5



Material: Top - Recycled aluminium Column & base - Mild steel

Dimensions: All in mm unless otherwise stated

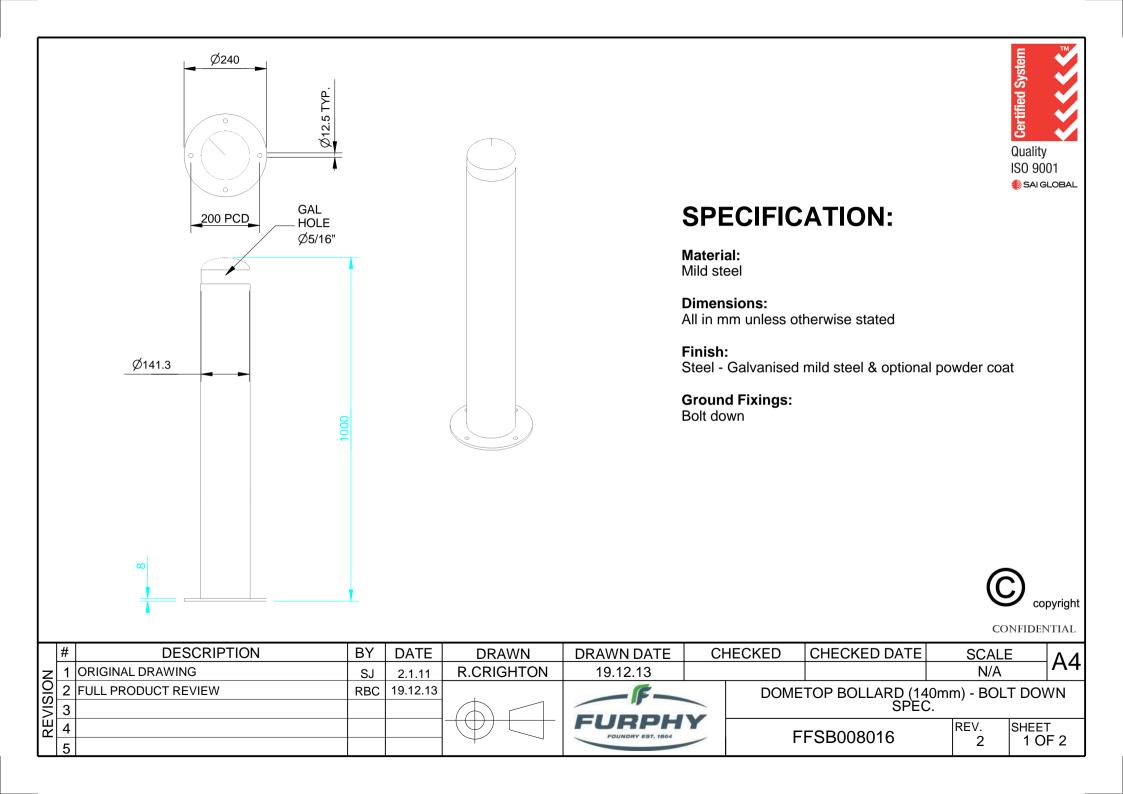
Finish: Steel - Galvanised mild steel & optional powder coat

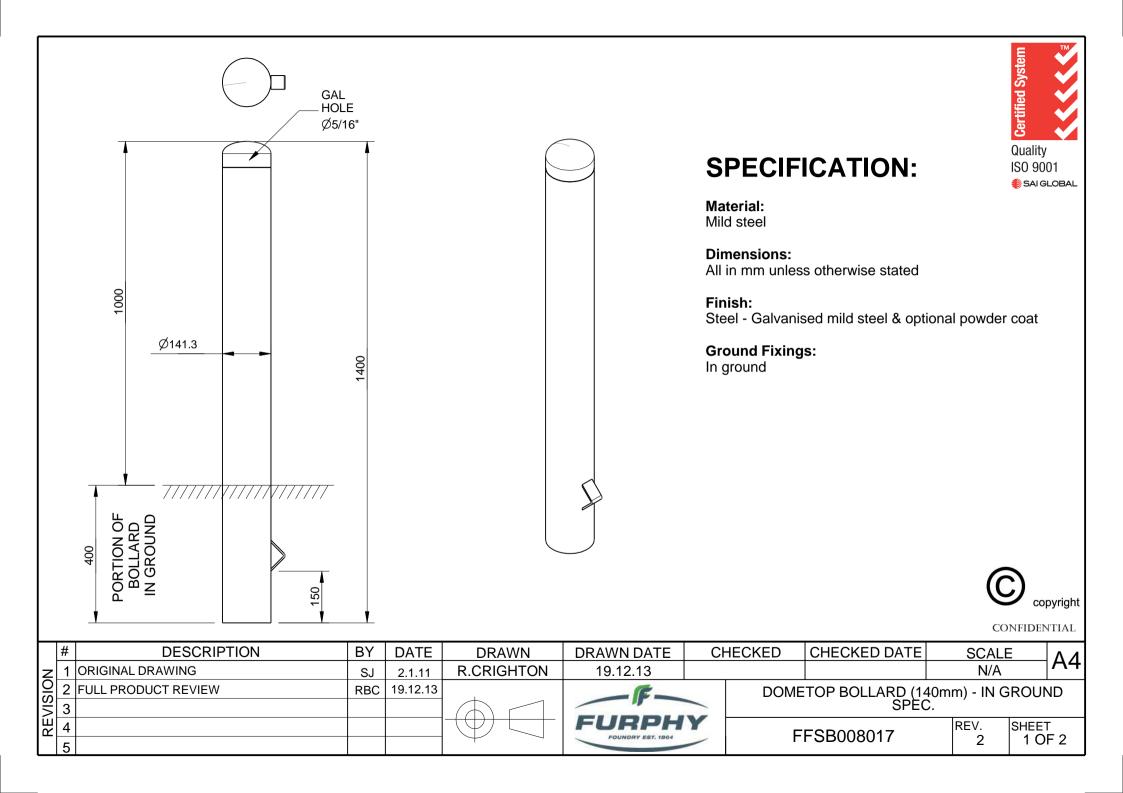
Ground Fixings: Removable. Attaches to in ground component (FFSB008036)





	#	DESCRIPTION	BY	DATE	DRAWN	DRAWN DATE	CH	HECKED	CHECKED DATE	SCALE	
z	1	ORIGINAL DRAWING	RBC	18.12.13	R.CRIGHTON	18.12.13				N/A	— A4
/ISION	2							B11 BOLLARD - REMOVABLE			
	U U							SPEC.			
ШШ	4					FURPH	Y		FSB008006	REV.	SHEET
	5				+ 7	POUNDAT EST. 1864	/	I	1 3000000	1	1 OF 3







Material: Mild steel

Dimensions: All in mm unless otherwise stated

Finish: Steel - Galvanised mild steel & optional powder coat

Ground Fixings: Removable. Attaches to in ground component (FFSB008036)



CONFIDENTIAL

DESCRIPTION # ΒY DATE DRAWN DRAWN DATE CHECKED CHECKED DATE SCALE A4 ORIGINAL DRAWING **R.CRIGHTON** 19.12.13 N/A 1 RBC 19.12.13 REVISION 2 DOMETOP BOLLARD (140mm) - REMOVABLE SPEC. 3 4 SHEET REV. FFSB008018 1 OF 3 1 5

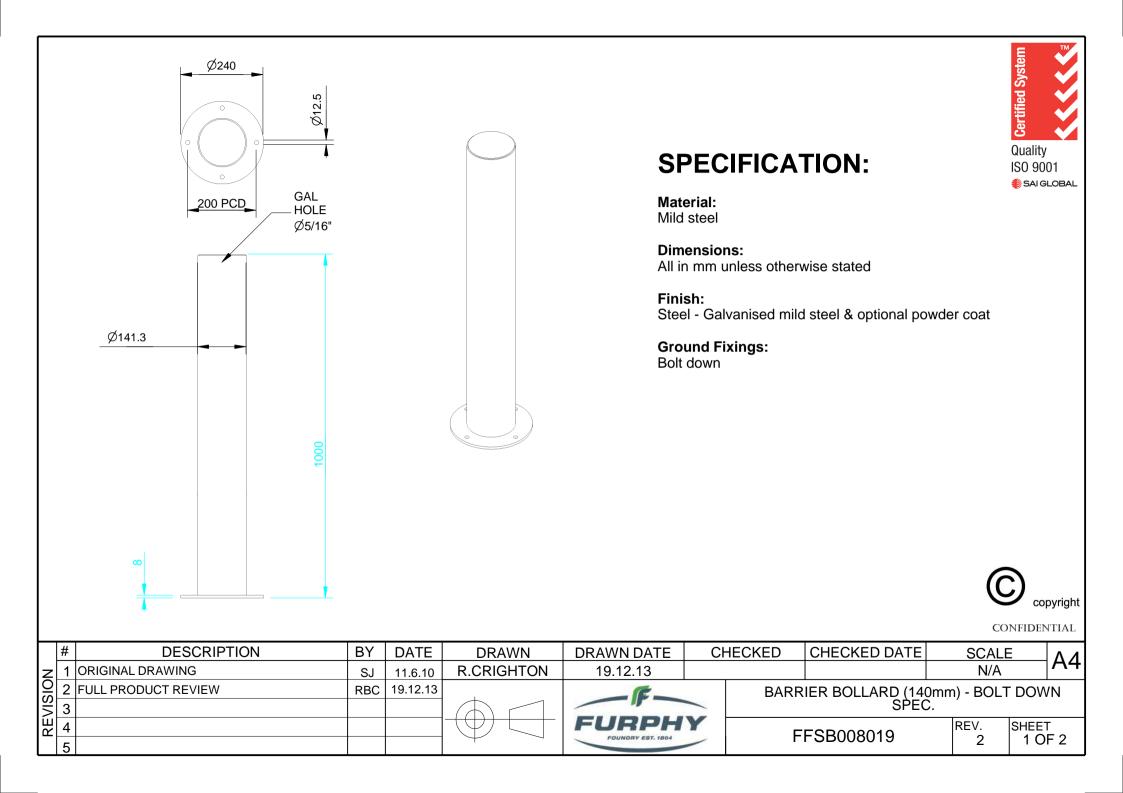


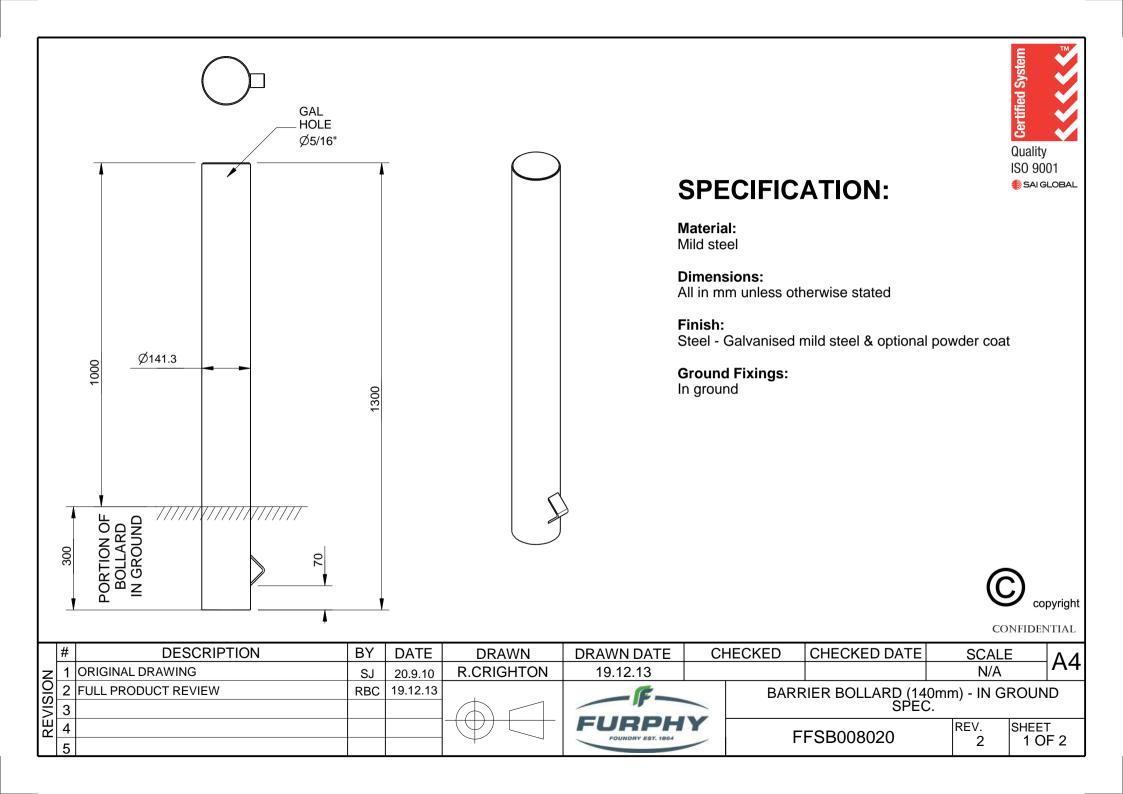
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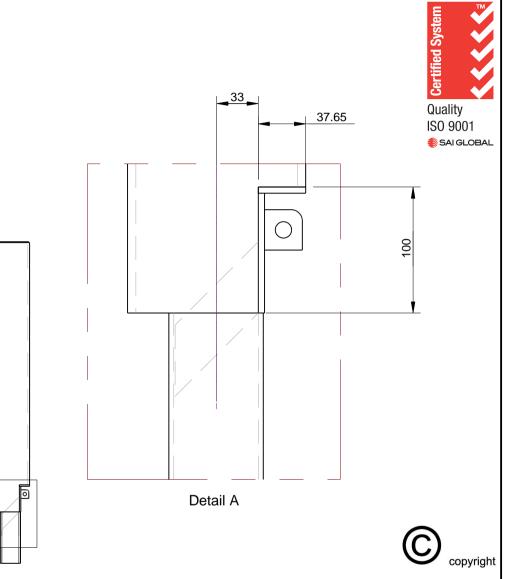
GROUND LEVEL





PROCEDURE

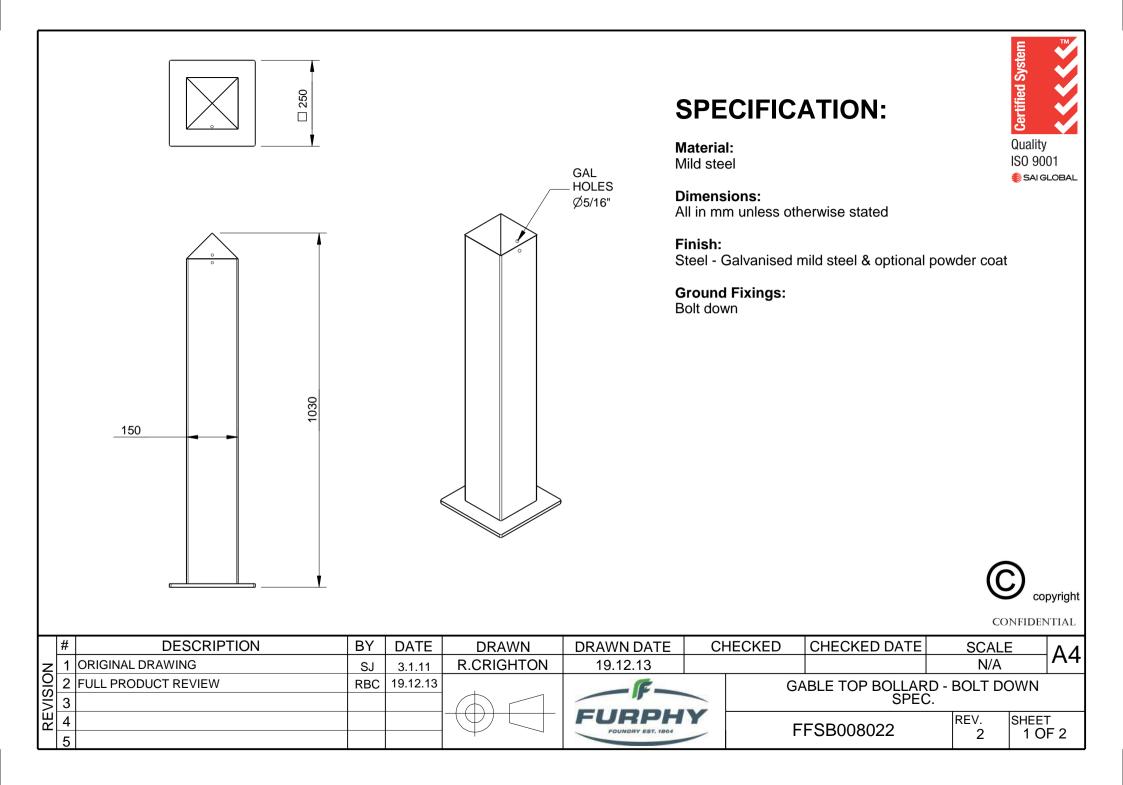
- 1. Cut pipe to length 997mm
- 2. Clean and square top end of pipe.
- 3. Place cap on top of pipe having an even gap around the top edge. Tack in place and fully weld dress flush.
- 4. Using an angle grinder with cutting disk, remove section of pipe 100mm longitudinally, and 33mm from pipe centre. See detail. This corresponds to a 153mm distance around the pipe (if 141.3 O.D.).
- 5. Tack in arc plate. Ensure square and check dimensions. Fully weld and dress flush with pipe.
- 6. Tack together SHS, 120x5x95 plate, back gusset, and cleat. Refer to detail A. Ensure square and fully weld.
- 7. Tack together the lower assembly to the pipe assembly. Ensure the SHS is colinear with the pipe and is square, this is essential. Check and fully weld, dress flush with outside of pipe.
- 8. Drill 5/16 holes in top as per Spec for galvanising
- 9. After galvanising and painting, install a 30mm wide reflective tape 150mm down from top.
- 10. Final inspection.

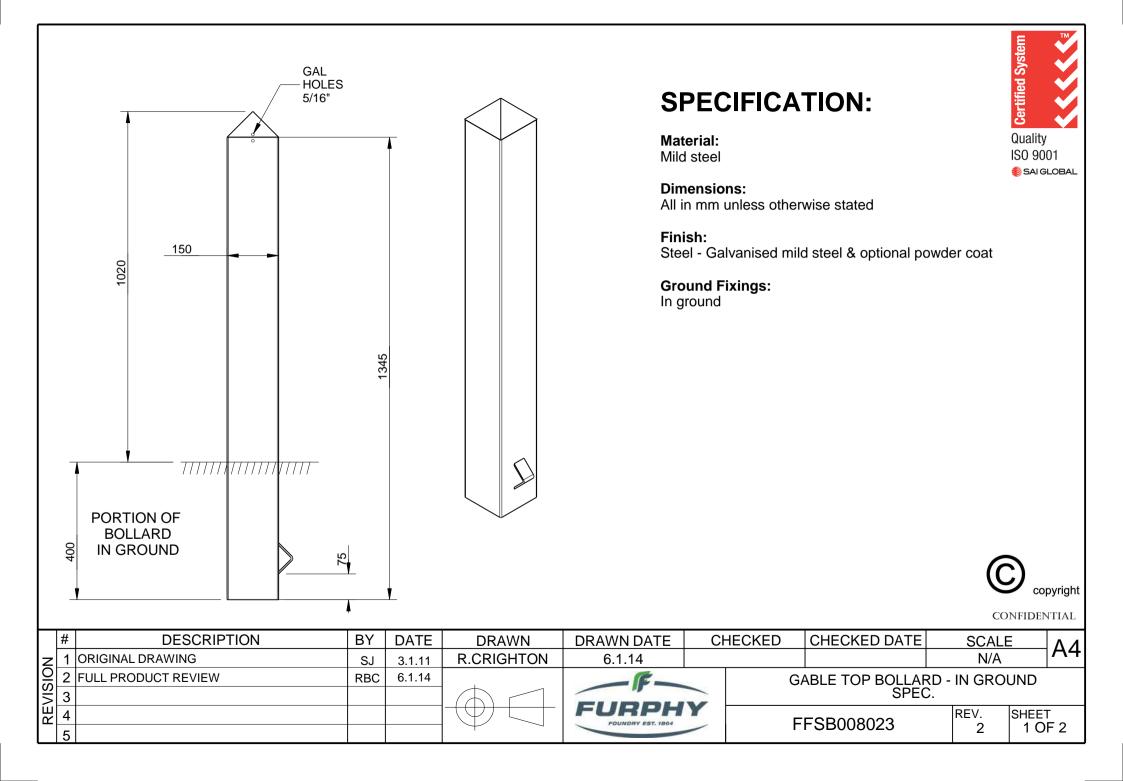


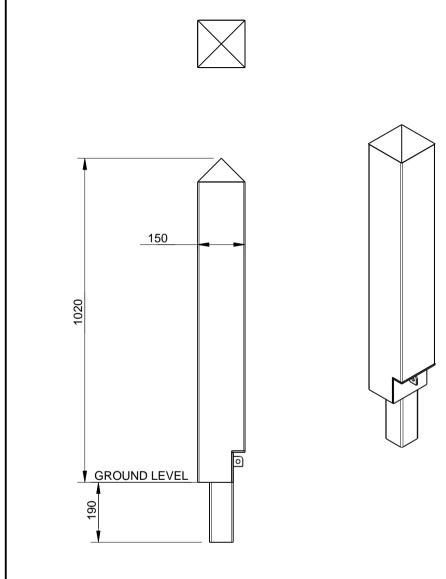
CONFIDENTIAL

	#	DESCRIPTION	ΒY	DATE	DRAWN	DRAWN DATE	DRAWN DATE CH		CHECKED		CHECKED DATE	SCALE	
Z	1	ORIGINAL DRAWING	RBC	19.12.13	R.CRIGHTON	19.12.13				N/A	— A4		
	1 2 3				\bigcup	-#		BARR	BARRIER BOLLARD (140mm) - REMOVABLE PROCEDURE & DETAIL				
Ц И И И	4 5						Y	F	FSB008021	REV. S	HEET 3 OF 3		

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Material: Mild steel

Dimensions: All in mm unless otherwise stated

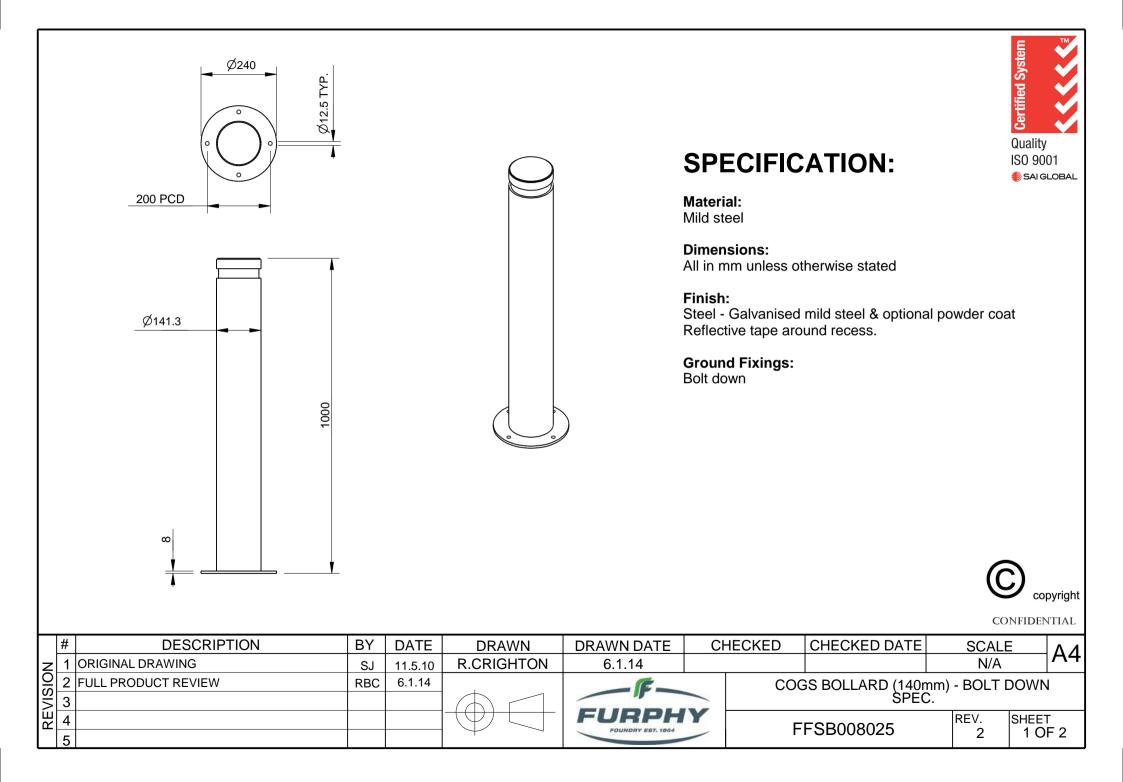
Finish: Steel - Galvanised mild steel & optional powder coat

Ground Fixings: Removable. Attaches to in ground component (FFSB008036)

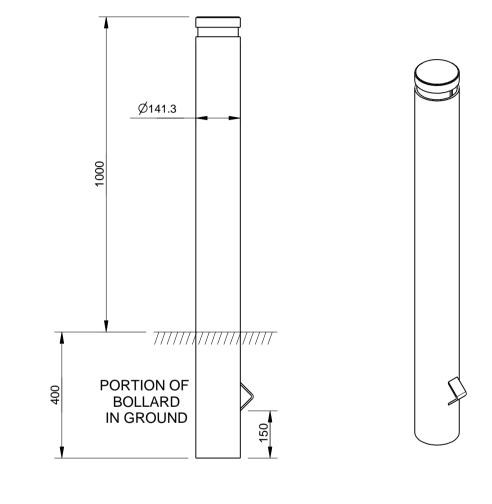


	#	DESCRIPTION	BY	DATE	DRAWN	DRAWN DATE	CHECKED	CHECKED DATE	SCALE			
lz	1	ORIGINAL DRAWING	RBC	6.1.14	R.CRIGHTON	6.1.14			N/A	A4		
	2					E	GA	GABLE TOP BOLLARD - REMOVABLE				
5	3							SPEC.				
REVISION	4					FURPHY	Y	.ESD000004	REV.	SHEET		
[5					FOUNDRY EST. 1864	I	FFSB008024		1 OF 3		









Material: Mild steel

Dimensions: All in mm unless otherwise stated

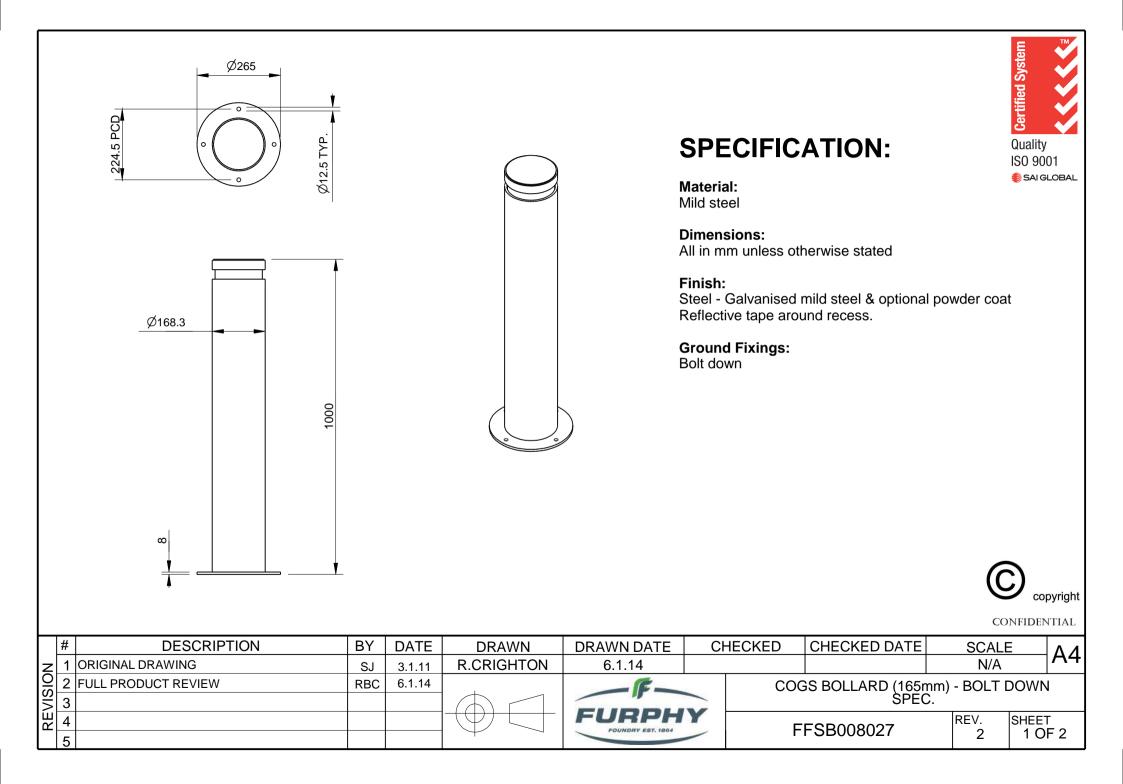
Finish: Steel - Galvanised mild steel & optional powder coat Reflective tape around recess.

Ground Fixings: In ground

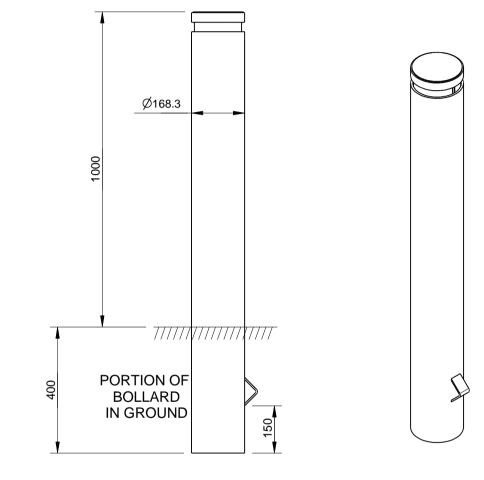


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DESCRIPTION # ΒY DATE DRAWN DRAWN DATE CHECKED CHECKED DATE SCALE A4 ORIGINAL DRAWING **R.CRIGHTON** 6.1.14 N/A SJ 1 20.9.10 REVISION 2 FULL PRODUCT REVIEW RBC 6.1.14 COGS BOLLARD (140mm) - IN GROUND SPEC. 3 4 REV. SHEET FFSB008026 2 1 OF 2 5







REVISION

SPECIFICATION:

Material: Mild steel

Dimensions: All in mm unless otherwise stated

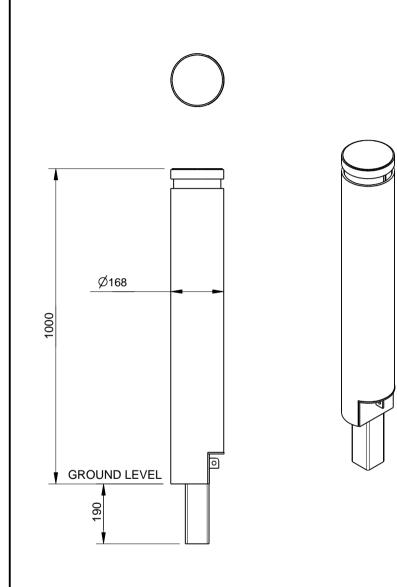
Finish: Steel - Galvanised mild steel & optional powder coat Reflective tape around recess.

Ground Fixings: In ground



A4

CONFIDENTIAL DESCRIPTION # ΒY DATE DRAWN DRAWN DATE CHECKED CHECKED DATE SCALE ORIGINAL DRAWING **R.CRIGHTON** 6.1.14 N/A SJ 3.1.11 1 2 FULL PRODUCT REVIEW RBC 6.1.14 COGS BOLLARD (165mm) - IN GROUND SPEC. 3 4 REV. SHEET FFSB008028 2 1 OF 2 5



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REVISION

SPECIFICATION:

Material: Mild steel

Dimensions: All in mm unless otherwise stated

Finish: Steel - Galvanised mild steel & optional powder coat Reflective tape around recess.

Ground Fixings: Removable. Attaches to in ground component (FFSB008036)

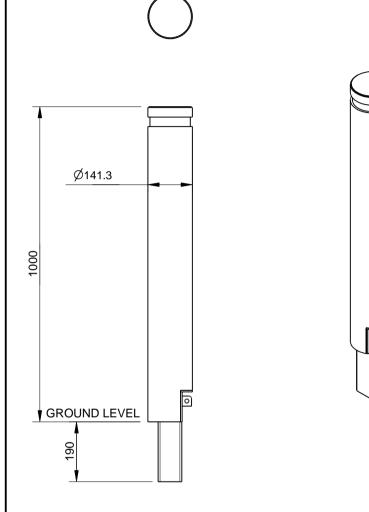




CONFIDENTIAL

DESCRIPTION # ΒY DATE DRAWN DRAWN DATE CHECKED CHECKED DATE SCALE A4 ORIGINAL DRAWING **R.CRIGHTON** 7.1.14 N/A RBC 7.1.14 2 COGS BOLLARD (165mm) - REMOVABLE SPEC. 3 4 REV. SHEET FFSB008029 1 OF 3 1 5





REVISION

SPECIFICATION:

Material: Mild steel

Dimensions: All in mm unless otherwise stated

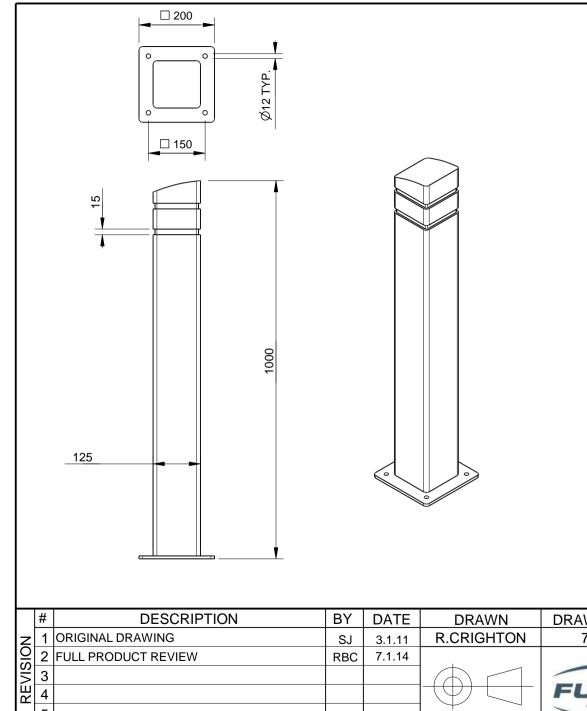
Finish: Steel - Galvanised mild steel & optional powder coat Reflective tape around recess.

Ground Fixings: Removable. Attaches to in ground component (FFSB008036)



CONFIDENTIAL

DESCRIPTION # ΒY DATE DRAWN DRAWN DATE CHECKED CHECKED DATE SCALE A4 ORIGINAL DRAWING **R.CRIGHTON** 7.1.14 N/A 1 RBC 7.1.14 2 COGS BOLLARD (140mm) - REMOVABLE SPEC. 3 4 SHEET REV. FFSB008030 1 OF 3 1 5





Material: Column & base - Mild steel Cap - Recycled Aluminium

Dimensions: All in mm unless otherwise stated

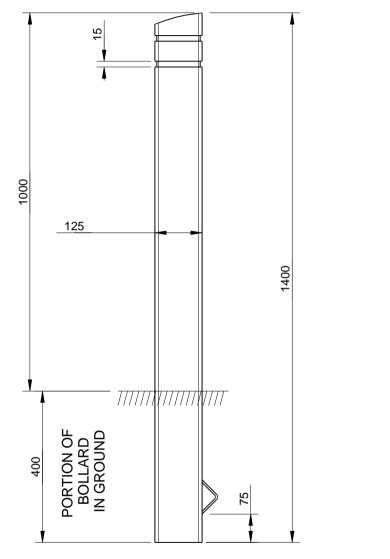
Finish: Steel - Galvanised mild steel & optional powder coat Optional alternative coloured paint in recess.

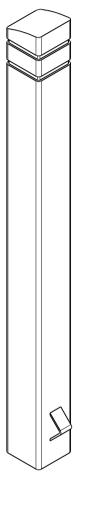
Ground Fixings: Bolt down



	#	DESCRIPTION	BY	DATE	DRAWN	DRAWN DATE	CHECK	ED	CHECKED DATE	SCAL	E A A
z	1	ORIGINAL DRAWING	SJ	3.1.11	R.CRIGHTON	7.1.14				N/A	<u> </u>
NOI	2	FULL PRODUCT REVIEW	RBC	7.1.14		E-		TRAVERSE BOLLARD - BOLT DOWN			
Ī	3								SPEC	; .	
ЦШ	4					FURPH	Y		FSB008033	REV.	SHEET
	5				+ 1	FOUNDRY EST. 1864	/		1 3000033	2	1 OF 2







Material: Column & base - Mild steel Cap - Recycled Aluminium

Dimensions: All in mm unless otherwise stated

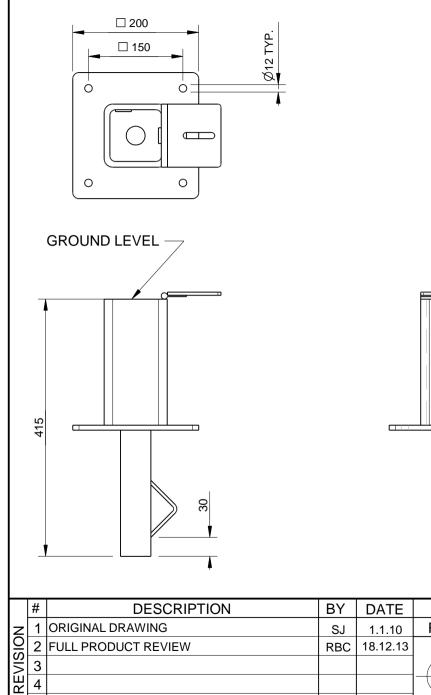
Finish: Steel - Galvanised mild steel & optional powder coat Optional alternative coloured paint in recess.

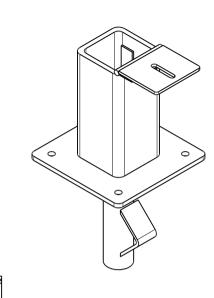
Ground Fixings: In ground



CONFIDENTIAL

DESCRIPTION # ΒY DATE DRAWN DRAWN DATE CHECKED CHECKED DATE SCALE A4 ORIGINAL DRAWING **R.CRIGHTON** 8.1.14 N/A SJ 1 3.1.11 REVISION 2 FULL PRODUCT REVIEW 8.1.14 RBC TRAVERSE BOLLARD - IN GROUND SPEC. 3 REV. 4 SHEET FFSB008034 2 1 OF 2 5







Material: Mild steel

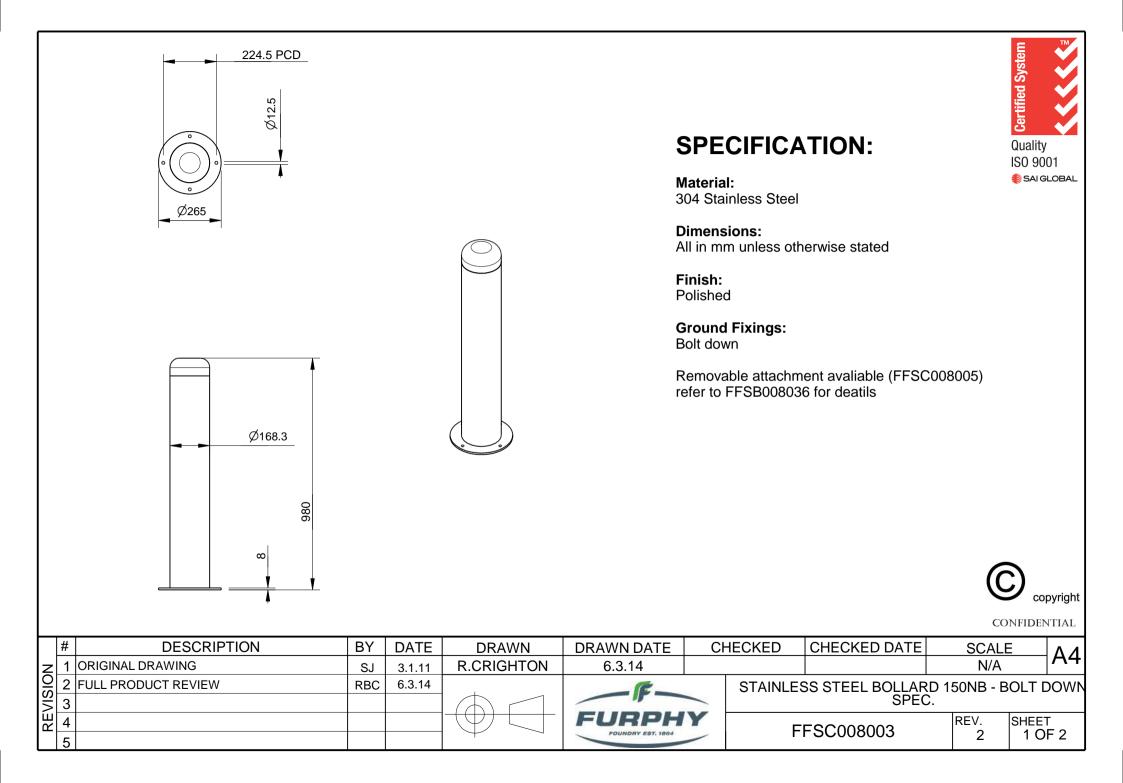
Dimensions: All in mm unless otherwise stated

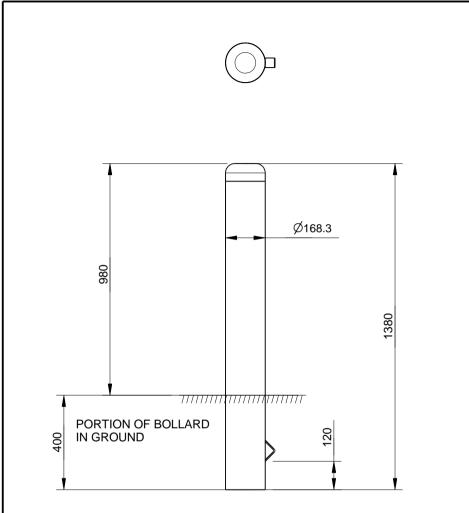
Finish: Galvanised and optional powder coat

Ground Fixings: In ground & Bolt down



CONFIDENTIAL DRAWN DRAWN DATE CHECKED CHECKED DATE SCALE A4 **R.CRIGHTON** 18.12.13 N/A REMOVABLE BOLLARD IN GROUND FIXTURE SPEC. REV. 4 SHEET FFSB008036 2 1 OF 2 5





Material: 304 Stainless Steel

Dimensions: All in mm unless otherwise stated

Finish: Polished

Ground Fixings: In Ground

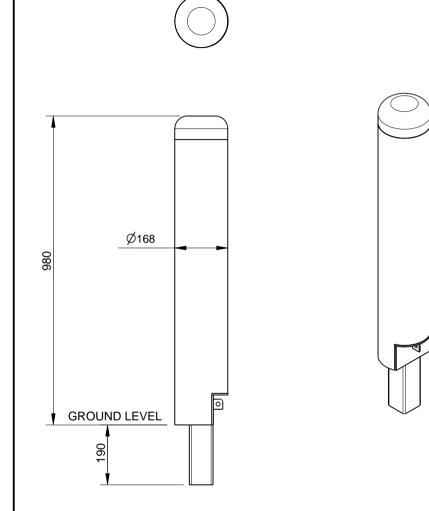
Removable attachment available (FFSC008005) refer to FFSB008036 for deatils





	#	DESCRIPTION	BY	DATE	DRAWN	DRAWN DATE	CHECKED	CHECKED DATE	SCALE	-A4	
z	1	ORIGINAL DRAWING	SJ	3.1.11	R.CRIGHTON	6.3.14			N/A	A 4	
VISION	3	FULL PRODUCT REVIEW	RBC 6.3.14			-		STAINLESS STEEL BOLLARD 150NB - IN GROUND SPEC.			
	4					FURPH		FFSC008004	REV. SHE	et OF 2	





Material: 304 Stainless Steel

Dimensions: All in mm unless otherwise stated

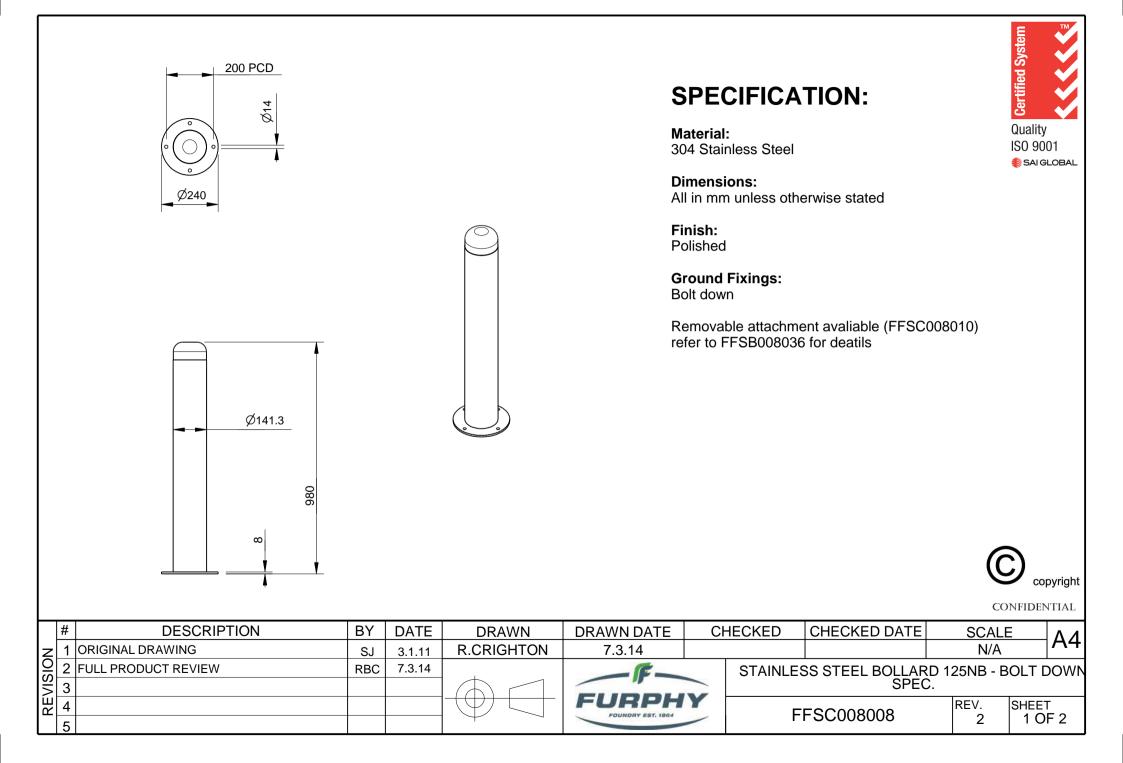
Finish: Polished

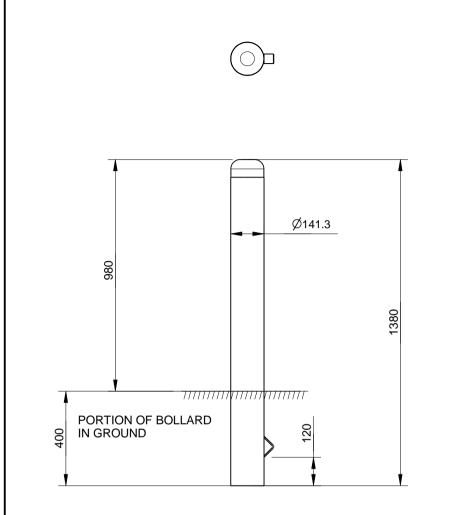
Ground Fixings: Removable. Attaches to in ground component (FFSB008036)



CONFIDENTIAL

DESCRIPTION # ΒY DATE DRAWN DRAWN DATE CHECKED CHECKED DATE SCALE A4 ORIGINAL DRAWING **R.CRIGHTON** 7.3.14 N/A 1 RBC 7.3.14 REVISION 2 STAINLESS STEEL BOLLARD 150NB - REMOVABLE SPEC. 3 4 REV. SHEET FFSC008005 1 OF 3 1 5





Material: 304 Stainless Steel

Dimensions: All in mm unless otherwise stated

Finish: Polished

Ground Fixings: In Ground

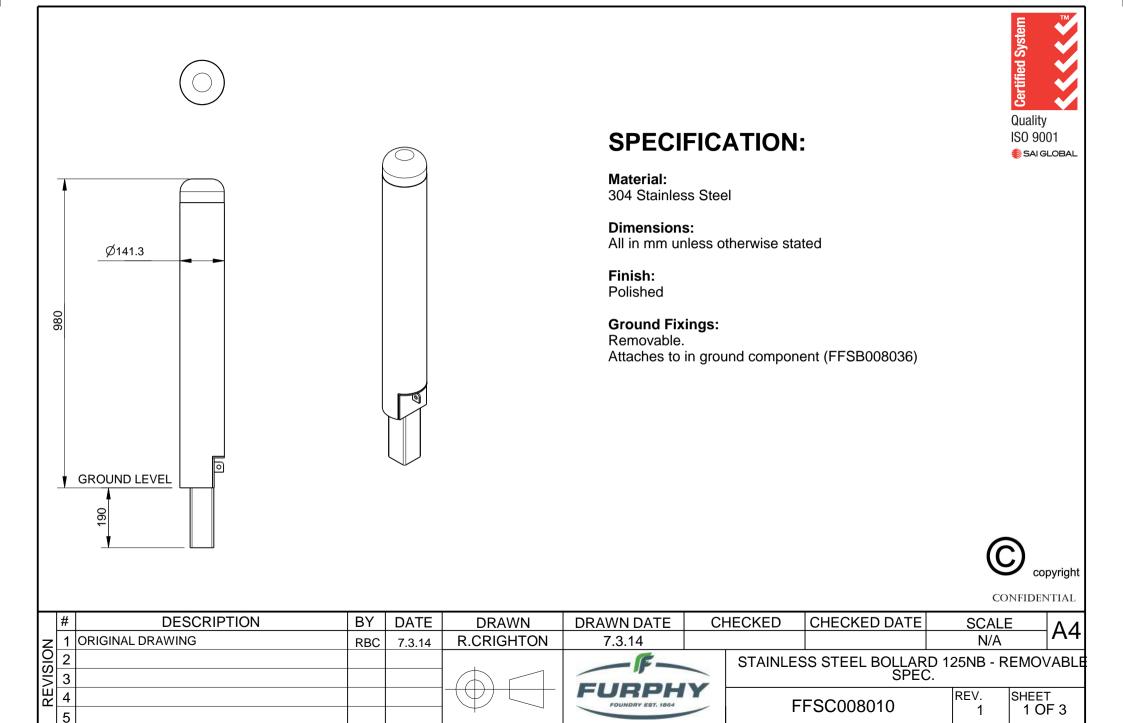
Removable attachment available (FFSC008010) refer to FFSB008036 for deatils

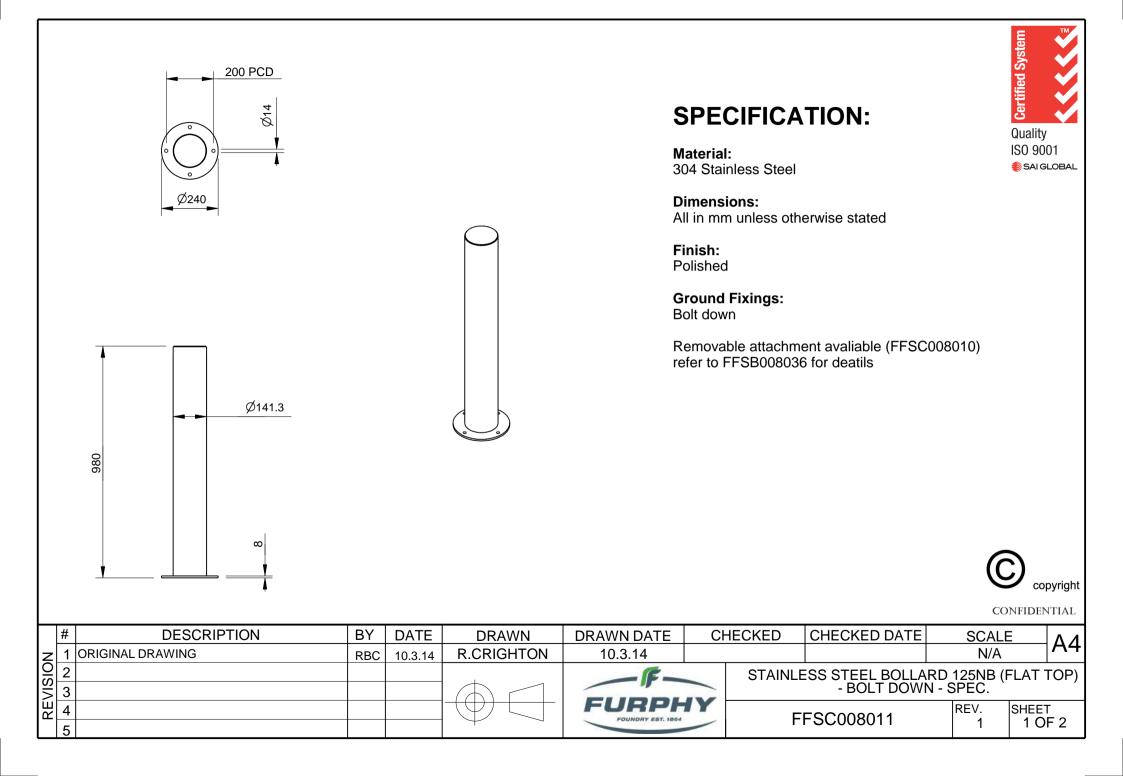


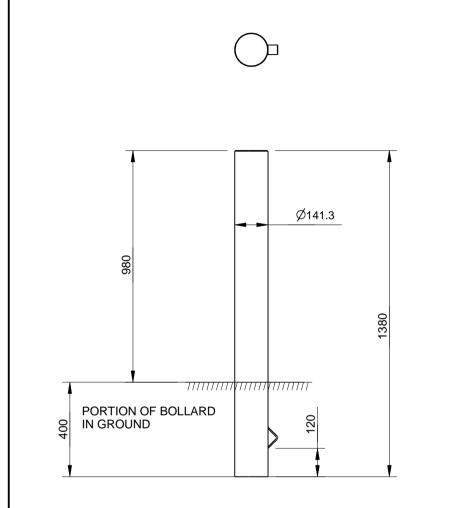


CONFIDENTIAL

DESCRIPTION # ΒY DATE DRAWN DRAWN DATE CHECKED CHECKED DATE SCALE A4 ORIGINAL DRAWING **R.CRIGHTON** 7.3.14 N/A 1 SJ 3.1.11 REVISION 2 FULL PRODUCT REVIEW RBC 7.3.14 STAINLESS STEEL BOLLARD 125NB - IN GROUND SPEC. 3 4 REV. SHEET FFSC008009 2 1 OF 2 5







Material: 304 Stainless Steel

Dimensions: All in mm unless otherwise stated

Finish: Polished

Ground Fixings: In Ground

Removable attachment available (FFSC008010) refer to FFSB008036 for deatils



CONFIDENTIAL

DESCRIPTION ΒY DATE CHECKED CHECKED DATE DRAWN **DRAWN DATE** SCALE A4 ORIGINAL DRAWING **R.CRIGHTON** 10.3.14 N/A 1 RBC 10.3.14 REVISION 2 STAINLESS STEEL BOLLARD 125NB (FLAT TOP) - IN GROUND - SPEC. 3 4 SHEET REV. FFSC008012 1 OF 2 1 5

