LONGITUDINAL SAFETY BARRIER SYSTEMS

SENTRY BARRIER W BEAM SYSTEM

The **ACP Sentry Barrier W Beam System** is a roadside MASH TL-3 rated W-beam guardrail system suitable for containing, redirecting and shielding vehicles from roadside obstacles.

MASH is the highest crash testing performance criteria, exceeding the requirements of NCHRP 350 TL-3 and is currently the basis performance criteria in Australia for newly developed systems.

ADVANTAGES

- Designed and Made in Australia
- MASH TL-3 semi flexible roadside barrier
- No block out and stiffener required
- Single bolt for rail to post connection
- Narrower footprint over public systems
- Familiar C-Post only smaller profile
- Minimal parts for an easy repair
- Rail sits higher than post for increased safety and performance
- 800mm from surface to top of rail allows for future pavement overlays
- Reduce deflection with 1.0m Post Spacing
- Baseplate Post Option for underground services
- Extended Post Option for 2H:1V slope nil setback or weak soils

TECHNICAL SPECIFICATIONS

System Width	200 mm
Height to top of rail	800 mm
Height to top of post	790 mm
Post Weight	13.7 kg
Post Length	1.64 m
Post Spacing	2.00 m
MASH TL-3 Deflection 1100kg @25 degrees	1.02 m
MASH TL-3 Deflection 2270kg @25 degrees	1.59 m
MASH TL-3 Deflection at 1.0m Post Spacing	0.99 m
Minimum length of barrier between terminals	30 m
Maximum slope behind barrier when setback 0mm to batter hinge point*	3H:1V Slope
Maximum slope behind barrier when setback 200mm to batter hinge point**	2H:1V Slope

*Requires minimum AASHTO Standard Soil strength or greater. However, where variable soil properties may be present, an offset of 300mm is recommended.

**Requires minimum AASHTO Standard Soil strength or greater. However, where variable soil properties may be present, an offset of 400mm is recommended.

Contact ACP for more information on batter slope proximities or for any other queries.

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Australian Construction Products

March 2023

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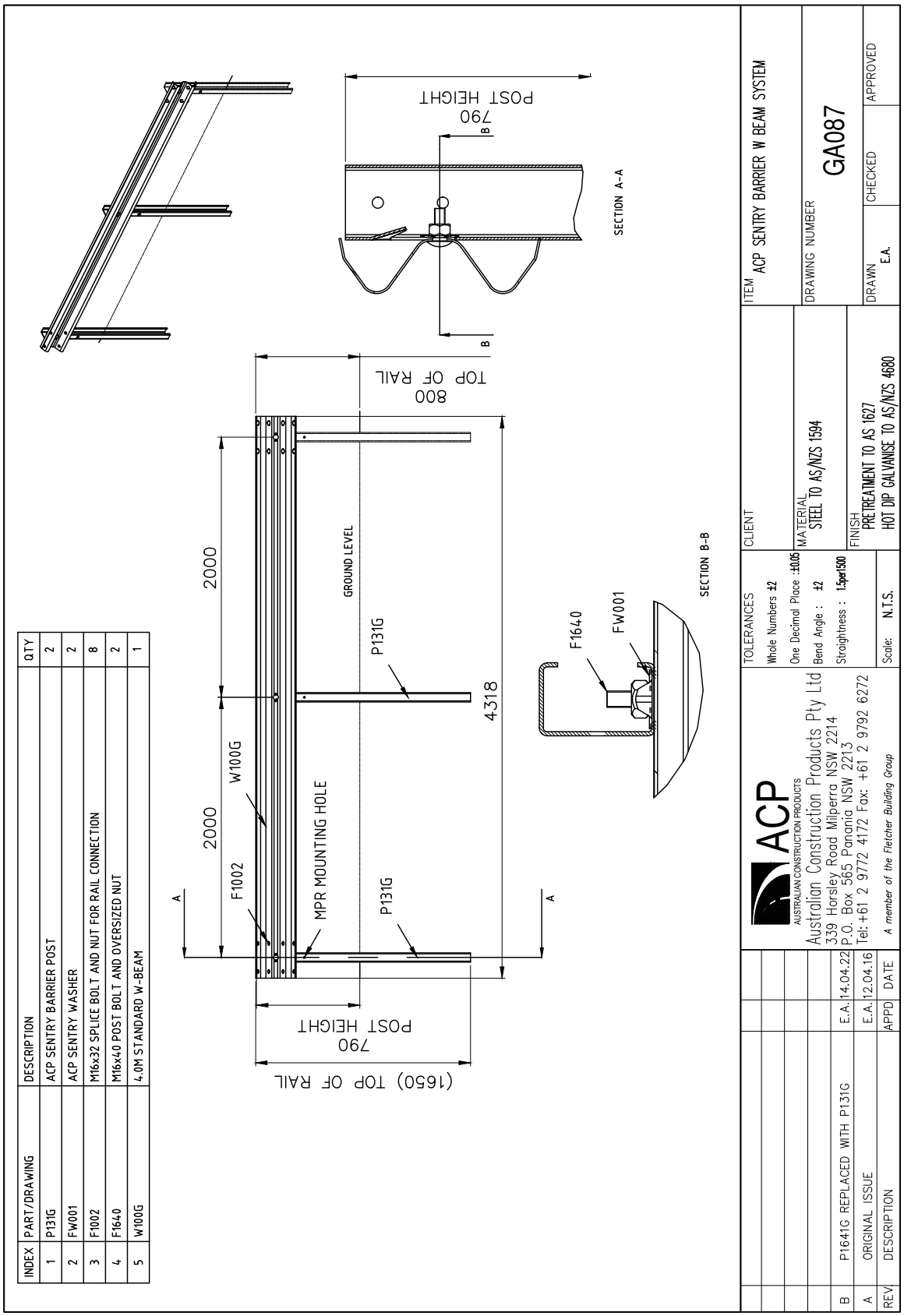

INDEX	PART/DRAWING	DESCRIPTION	QTY
1	P131G	ACP SENTRY BARRIER POST	2
2	FW001	ACP SENTRY WASHER	2
3	F1002	M16x32 SPLICE BOLT AND NUT FOR RAIL CONNECTION	8
4	F1640	M16x40 POST BOLT AND OVERSIZED NUT	2
5	W100G	4.0M STANDARD W-BEAM	1

REV	DESCRIPTION	APPD	DATE
B	P1641G REPLACED WITH P131G	E.A.	14.04.22
A	ORIGINAL ISSUE	E.A.	12.04.16

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TOLERANCES
Whole Numbers ±2
One Decimal Place ±0.05
Bend Angle : ±2
Straightness : 1.5per1500
Scale: N.T.S.

CLIENT

MATERIAL: STEEL TO AS/NZS 1594

FINISH: PRETREATMENT TO AS 1627
HOT DIP GALVANISE TO AS/NZS 4680

ITEM: ACP SENTRY BARRIER W BEAM SYSTEM

DRAWING NUMBER: GA087

DRAWN: E.A.
CHECKED
APPROVED

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