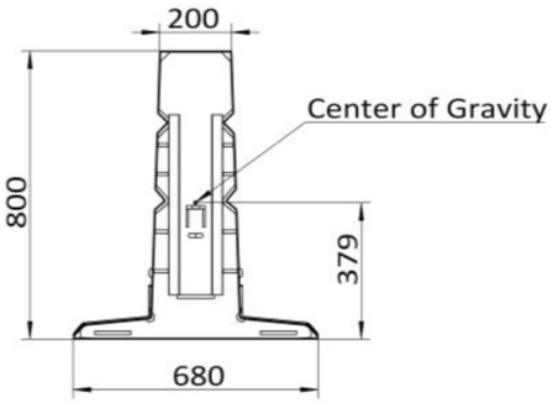
DEFENDER 70 STEEL BARRIER SYSTEM



SUMMARY	
SUPPLIER:	**Safe Barriers Pty Ltd.** (http://www.safebarriers.com)
TEST LEVEL / CONDITIONS:	**TL2** (MASH TL-2)
PRODUCT MANUAL	**click for** product manual

The Defender 70 Steel Barrier System is a free-standing, ballasted, temporary steel barrier system comprising 3.96m sections fabricated from galvanised steel. The individual units are ballasted using 3 concrete-filled ballast boxes per unit which are mandatory for compliance. The units are joined using a proprietary connection system with the ends being protected by the use of an accepted temporary crash cushion.

The system has been tested in accordance with MASH Test Level 2 (2270kg pick-up impacting at 70km/h at 25°) and was accepted by the Austroads Safety Barrier Assessment Panel (ASBAP) on 6 December 2017.

In-service impact deflection in excess of the test values indicated below must be allowed for in any temporary traffic management plan utilising the Defender 70 Steel Barrier System. All relevant minimum requirements of CoPTTM in regard to working spaces and safety zones must be met irrespective of the variant in use, in particular the test level of the system must meet or exceed the test level required for the operating speed of the adjacent traffic (refer CoPTTM B12.1).

TECHNICAL INFORMATION	
DIMENSIONS	**3.96m** length unit **680mm** width (base), **800mm** height
MINIMUM LENGTH	**105m** (freestanding)
GRADE OR PLACEMENT RESTRICTIONS	May be placed on concrete, asphaltic concrete or chipseal surfaces. May not be used on unbound/unsealed surfaces.
DEFLECTION	**1.2m** (measured at outer edge of foot on workzone side of barrier)
ANCHOR POINT SPACING	Not applicable (freestanding system)
MINIMUM DISTANCE TO EXCAVATION	**1.2m** (to be measured from outer edge of foot on workzone side of barrier)
FLARE RATE	**15V:1H** for speed 100km/h **10V:1H** for speed 70km/h **11V:1H** for speed 80km/h NOTE: Flare rates above apply inside the shyline. Refer to Austroads Guide to Road Design Part 6, section 6.3.16

OTHER RESTRICTIONS / CONSIDERATIONS	▸ Each unit must have three concrete-filled ballast boxes fitted to be compliant. Units without ballast boxes must not be used. ▸ Flaring across the clear zone without a terminal is not permitted.

OTHER CONSIDERATIONS

- Flaring of the Defender 70 Steel Barrier System across a clear area ahead of a worksite without a crash cushion is not permitted.
- The installed system shall include delineation as prescribed by road authority specifications and drawings.
- Defender 70 Steel Barrier System must have one of the following accepted crash cushion installed for protection at both ends.
  - ABSORB 350 - not permitted as a terminal on a flared installation.
- When selecting the crash cushion, the provisions of the Code of Practice for Temporary Traffic Management (CoPTTM) section C18.2.1 must be considered.

NOTES: