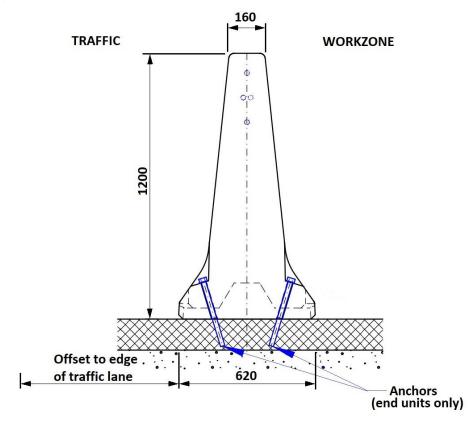
REBLOC 120FA_6_SF CONCRETE SAFETY BARRIER - TEMPORARY

REVISION REGISTER

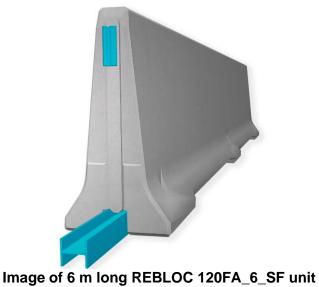
Revision	Description	Date
1	Issued for use.	30/01/2023

REBLOC 120FA_6_SF is a freestanding temporary concrete barrier (6 metre units) that must be anchored at each end. REBLOC 120FA_6_SF consists of steel reinforced concrete barrier units using protruding couplings and without intermediate ground attachment.

Drawings:



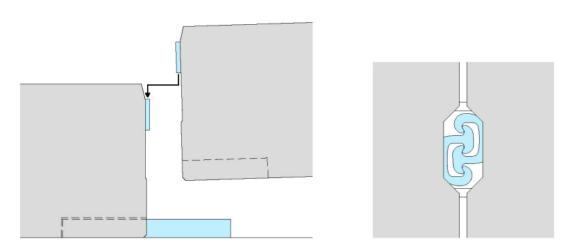
Section View



REBLOC 120FA_6_SF CONCRETE SAFETY BARRIER - TEMPORARY



Photograph of REBLOC 120FA_6_SF Units



Images of REBLOC 120FA_6_SF Joints

Ownership: REBLOC GmbH

Supplier:

Hill & Smith Pty Ltd T/A HS Roads Unit 6, 170 Burnside Road Ormeau, QLD 4208

Email: sales@hsroads.com.au

Test Level: Crash tested to MASH TL 3 and MASH TL 5.

Test Level	Test Description	Deflection	Working Width
MASH – TL 3	2270 kg vehicle at 100 km/h 25° impact angle	0.40 m	1.00 m
MASH – TL 5	36000 kg vehicle at 80 km/h 15° impact angle	1.58 m	2.29 m

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Note that while the REBLOC 120FA_6_SF Concrete Safety Barrier has passed crash testing to MASH TL 3 and TL 5, the barrier system when connected to approved terminals is not accepted at 100km/h.

Configuration:

 Units must be interconnected using patented couplings and requires a sufficient length to resist impact.

Design Considerations:

- Design to be in accordance with the document "Installation Instructions REBLOC® Precast Concrete Safety Barrier – REBLOC 120FA_6_SF" -Version 1.0, dated 10/2021.
- The barrier is designed to resist loadings by deflection, so the units should be free to move. The barrier shall not be placed onto a mortar or a concrete blinding as this may overload the connections between the units.
- It is recommended that the barrier should as a minimum be offset from the edge of traffic lane by:
 - traffic speed 40 km/h or less 0.2 m;
 - traffic speed 41 to 60 km/h 0.3 m;
 - traffic speed 61 to 80 km/h 0.5m.
- Barrier length must be sufficient to protect the hazard.
- Kerbing is not to be placed in front of the barrier.
- Kerbing should not be placed behind the barrier within the deflection limits of the system.
- Barrier shall not be placed on top of kerbing as this negates the effects of the profile.
- The approach to the barrier should be a trafficable running surface at a slope of 10% or flatter clear of objects and grade changes to allow an errant vehicle to hit the barrier at an appropriate height.
- When designing a REBLOC 120FA_6_SF barrier the flare rates used shall be those for a rigid barrier, to minimise impact angles.

Minimum Length:

Lengths as crash tested (excluding terminals):

MASH TL 3 – minimum length = 102 m MASH TL 5 – minimum length = 102 m

Terminals permitted:

SMART crash cushion

- The installation is restricted to a posted speed of 80 km/h or less.
- May only be installed where reverse impacts are highly improbable, and a risk assessment has been completed and steps undertaken to mitigate any risks identified.
- Terminal must be anchored by pins in accordance with the installation instructions in the product manual.
- The REBLOC 120FA_6_SF barrier units adjacent to the crash cushion must be anchored to the pavement as required by the product manual.
- An accepted transition must be used to connect the terminal to the barrier.

Point of Redirection:

The point of redirection for MASH TL 3 conditions shall be the interface between the barrier and the end treatment.

REBLOC 120FA 6 SF CONCRETE SAFETY BARRIER - TEMPORARY

The point of redirection for MASH TL 5 conditions shall be 48.3 m from the leading end of the REBLOC 120FA_6_SF barrier and 53.7 m from the trailing end of the REBLOC 120FA 6 SF barrier.

Limitations:

- The use of REBLOC 120FA_6_SF barrier is limited to work site situations and units shall be interconnected using the patented coupling.
- Objects should not be placed on top of the barrier as they are designed to move under impact. "Gawk" screens are not acceptable.
- The minimum radius that the REBLOC 120FA_6_SF barrier can be installed on is 150 m
- To be used where pavement consists of:
 - o Minimum 140 mm thick reinforced or unreinforced concrete,
 - o Minimum 140 mm thick asphalt over 150 mm basecourse.

For pavements not meeting these requirements design advice shall be sought from the Supplier.

Anchoring details consist of 300 mm long Excalibur HSB 20/300 screwbolts.

Installation and Maintenance Requirements:

In accordance with the document "Installation Instructions REBLOC® Precast Concrete Safety Barrier – REBLOC 120FA_6_SF" - Version 1.0, dated 10/2021.

Parts to be Replaced after Impact:

Units may need to be repaired after impact or replaced depending on the extent of damage.

Parts Typically Re-Useable after Impact:

Undamaged units.

References:

Refer to Main Roads file 22/7640.