

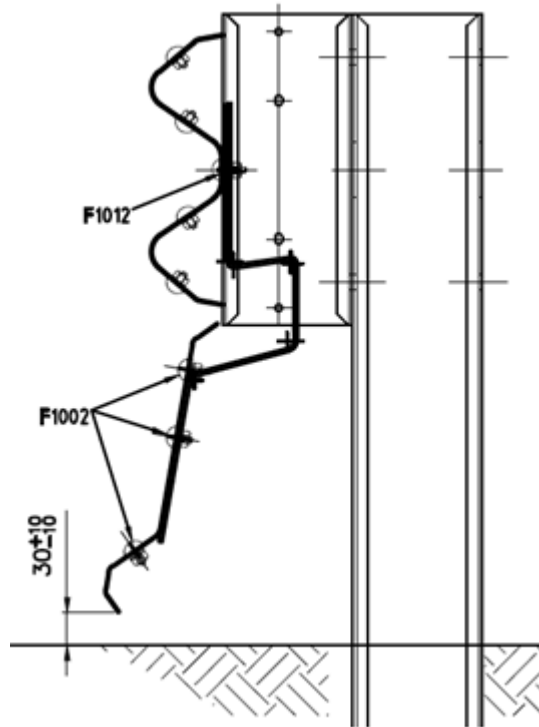
# HIASA RAIL

## REVISION REGISTER

Revision	Description	Date
1	Issued for use.	25/10/2016

The HIASA Rail is a safety device aimed at reducing the crash severity for errant motorcyclists impacting the posts of a W-Beam guardrail system. It is approved for use by Main Roads WA, under the following conditions

### Images:



Cross section of HIASA Rail



Photograph of the Rolled End Section of the HIASA Rail

## HIASA RAIL



Photograph of the HIASA Rail connection to W-Beam

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### Test Level

- This system is tested with a sliding dummy impacting the rail at 70km/h at an angle of 30° and falls within the UNE 135 900 Level I minimum impact severity class.
- The addition of the HIASA Rail does not adversely affect the performance of the W-Beam system.

### Configuration:

- The HIASA Rail splices are to be lapped in the direction of the adjacent traffic (i.e. the same way as the W-Beam barrier).
- The rolled end section must be fitted to both ends of the rail.
- The gap between the bottom of the rail and the ground level should be 30mm.

### Limitations:

- The HIASA Rail is to only be installed on existing W-Beam barrier with steel channel blockouts.
- The system should not be attached to the components of any end treatment.
- The cross slope shall be not greater than 10% for the area in front and below the system and this area should be free of humps or hollows.
- The batter hinge point should be a minimum of 600mm from the back of the posts.
- The system should not be installed behind or on top of kerbing.
- The HIASA Rail has only been tested on straight sections, its performance within curved sections is unknown.
- The rolled end sections must not be within a curve.

## **HIASA RAIL**

### **Installation and Maintenance Requirements:**

In accordance with the HIASA Rail Product and Installation Manual (April 2016).

### **Parts to be Replaced after Impact:**

All damaged or deformed components.

### **Parts Typically Re-Useable after Impact:**

Undamaged components.

### **References:**

Main Roads WA file 13/6165