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Date

17<sup>th</sup> November 2005.

Our Ref.

**Certificate No. 099/11/05**

Your Ref.

### **National Roads Authority - Approval of Safety Barrier System**

The National Roads Authority approves the use of the under mentioned safety barrier system as fit for its intended purpose when used in accordance with DMRB Standard NRA TD 19/04, the NRA Specification for Road Works and the requirements of this Certificate.

In addition to other documentation submitted to this Authority by the manufacturer, this approval is based on the information contained in the TB11 impact test report number 33QB, TB32 impact test report number 32QB both compiled by TRL (UK) and the TB32 impact test report numbered 56417-C compiled by VTI (Sweden), in accordance with the requirements of IS EN 1317 Parts 1 and 2. The system, as installed, is a modified product approved for use in accordance with the requirements of prEN 1317 Part 5 - Modification of a Vehicle Restraint System.

#### **1. Safety Barrier System**

Brifen 4 Rope Wire Rope Safety Barrier (2.4m Post Spacing).

#### **2. Manufacturer**

Brifen (Hill & Smith).  
Springvale Avenue,  
Bilston,  
Wolverhampton.

#### **3. Description**

The 4 Rope Wire Rope Safety Fence consists of four 19mm diameter steel wire ropes. The ropes are supported by 1080mm long, 103mm X 34 mm X 6mm steel Z-Profile posts placed 420mm in to 310mm diameter, 950mm long prefabricated circular concrete foundations. The posts are spaced at 2.4m centres (100.8m test length). The two lower ropes are interwoven between alternate posts with the top ropes running straight through a slot at the top of each post. The ropes are anchored to the ground at each end with specially designed anchor blocks (two at each end) with dimensions of 1220mm X 1000mm X 1000mm each.

Details of the system are as shown on the following manufacturer's drawings included in test report 56417-C:

WR/01 to WR/13 inclusive.

#### 4. Purpose

Use only as described in standard NRA TD 19/04 (NRA DMRB 2.2.8A), for safety barriers requiring the following performance criteria:-

Containment Level	- N2
Impact Severity Level	- A
Working Width	- W4

The length of the safety barrier system shall be sufficient to demonstrate the full performance characteristic of the system.

#### 5. Ground Conditions

The Manufacturer shall provide information on the ground conditions that existed when the system was successfully tested in accordance with IS EN 1317 Parts 1 & 2.

The Contractor/Installer shall demonstrate that the ground conditions on site are suitable for the safety barrier system to function as designed and tested. (See NRA Specification for Road Works Clause 407)

#### 6. Installation

The safety barrier shall be installed in accordance with the manufacturer's installation requirements and in the same manner as it was installed for the initial type test.

#### 7. Durability

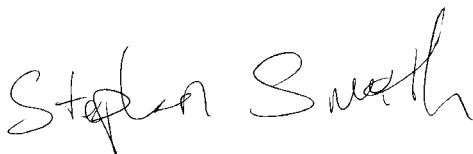
The required service life of 20 years shall be deemed to be satisfied by providing a galvanised coating to all steel components in accordance with IS EN ISO 1461 and in addition the coating weight shall comply with Table 4/1 of the NRA Specification for Road Works.

#### 8. Period of Validity

The continuing validity of this Certificate is conditional upon an acceptable quality of materials, workmanship and performance being maintained.

The current validity of this Certificate may be checked by contacting the Specifications Section of the National Roads Authority.

Issued on behalf of the National Roads Authority by:



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Stephen Smyth.  
Engineering Inspector.