



## EC DECLARATION OF CONFORMITY

The below signatory, on behalf of the company **HIERROS Y APLANACIONES S.A. (HIASA)**, sited in Polígono Industrial de Cancienes, s/n. 33470, Corvera, Asturias, Spain

DECLARES THAT:

The product “**REDIRECTIVE CRASH-CUSHION “AIR H-100P”**” – Vehicle Restraint System, Crash-Cushion for use in public areas,

complies the **ANNEX ZA** of the Norm **EN 1317-5:2007 + A1:2008**

Notified Certification Body:

**BUREAU VERITAS CERTIFICATION**

*C/ Valportillo Primera, 22-24, Polígono Industrial de la Granja,  
28108 Alcobendas, Madrid, España (Spain)*

Number of EC Certificate of Conformity:

**1035-8003008-AB**



**Arturo Villar López**

GENERAL DIRECTOR of HIASA

02/02/2011



**Hiasa**  
Grupo Gonvarri

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**BUREAU VERITAS**  
Certification



**EC CERTIFICATE OF CONFORMITY**

**Certificate N°. 1035-8003008-AB**

In compliance of the Directive 89/106/EEC of the Council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the member states relating to the construction products (Construction Products Directive – CPD), amended by the Directive 93/68/EEC of the Council of European Communities of 22 July 1993, it has been stated that the road restraint system identified as:

Road Restraint System – Crash Cushion: Redirective Crash- Cushion “AIR H-100P”, whose performances under impact and characteristics are detailed in the attached annex (two page)

Placed in the market and produced by:

HIERROS y APLANACIONES, S.A. (HIASA)

In its factory located in:

POLÍGONO INDUSTRIAL DE CANCIENES, S/N  
33470 – CORVERA, ASTURIAS, SPAIN

is submitted by the manufacturer to a Factory Production Control according to the requirements of the European standard UNE-EN 1317-5:2008+A1 “*Road Restraint Systems. Part 5: Durability and evaluation of conformity*” and submitted to the TC 1.2.100 Initial Type Tests in an accredited laboratory of samples taken in the factory, according to requirements of the European standards UNE-EN 1317-1 and UNE-EN 1317-3.

And that notified body *Bureau Veritas Certification, S.A.* has performed the Initial Inspection of the Factory and Factory Production Control, the evaluation of conformity and performs the continuous surveillance, assessment and approval of the Factory Production Control described in the UNE-EN 1317-5:2008+A1 “*Road Restraint Systems. Part 5: Durability and evaluation of conformity*”.

This certificate attests that all the relative requirements for the compliance of the conformity described in the annex ZA of the harmonized standard UNE-EN 1317-5:2008+A1 were applied, that the product fulfils all the prescribed requirements and it authorizes the manufacturer or its agent to fix the CE marking.

This certificate remains valid while the conditions established in the harmonized standard UNE-EN 1317-5:2008+A1 or the production conditions of the factory or the same FPC have not changed significantly, up to 26-11-2011.

Place and date of first approval: Madrid 18-01-2011.

Firmado por:

Pedro González  
Dirección de BV Certification

Bureau Veritas Certification, S.A.  
C/ Valportillo Primera, nº 22-24  
Pol. Ind. de la Granja 28108, Alcobendas - Madrid  
Organismo Notificado 1035  
Acreditación de ENAC: OC-P/005



**BUREAU VERITAS**  
Certification



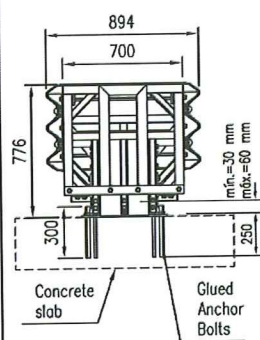
BUREAU VERITAS  
Certification



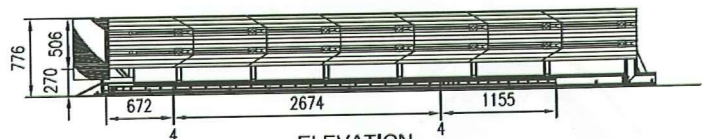
**Bureau Veritas Certification,**  
Valportillo Primera, 22-24, P.I. de La Granja 28108 Alcobendas - Madrid  
Notified Body N° 1035  
**EC CERTIFICATE OF CONFORMITY**  
**N° 1035-8003008-AB**  
Date of Approval : January 18, 2011.



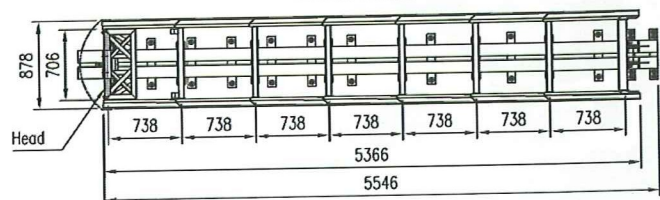
**ROAD RESTRAINT SYSTEMS - CRASH CUSHION:**  
**REDIRECTIVE CRASH-CUSHION "AIR H-100P"**



SECTION



ELEVATION



PLAN

dimensions in mm

**Placed in the market by:**

**Produced in:**

**HIASA**

Polígono Industrial de Cancienes  
33470 Corvera, Asturias - SPAIN

**HIASA**

Polígono Industrial de Cancienes  
33470 Corvera, Asturias - SPAIN

**EUROPEAN STANDARDS:**

**PERFORMANCES UNDER IMPACT:**

EN 1317-1  
EN 1317-3  
EN 1317-5

a) Performance level: **100 km/h**  
b) Impact Severity level: **B**  
c) Redirection zone : **Z1**  
d) Permanent Lateral Displacement: **0,1 m (D1)**

**SOIL DESCRIPTION:** Reinforced Concrete Slab (See drawing attached)

**DETACHED PIECES:** Totally detached elements having a solid mass > 2,0 Kg : NO  
Totally detached elements having a solid mass > 0,5 Kg : NO

**TEST VEHICLES:** TC 1.2.100 : Renault Megane, 1998

**OBSERVATIONS:** "AIR H-100P" crash-cushion is a member of a family according to 5.5 chapter of EN 1317-3, corresponding to a single parent crash-cushion "AIR H-110P" which has minimum taper angle and highest level 110 Km/h.  
(\*"AIR H-110P" crash-cushion EC Certificate of Conformity N° 1035-8003008-AA)

**INITIAL TYPE-TEST LABORATORY :**

FUNDACIÓN CIDAUT, Valladolid (Spain)

**VEHICLE IMPACT TEST CODES :**

E10-0104 (TC 1.2.100)

**MATERIALS:** Steel  
**STANDARDS:** EN 10025  
EN ISO 4957

**DURABILITY:**  
**STANDARDS:** Hot dip galvanizing EN ISO 1461  
EN ISO 14713



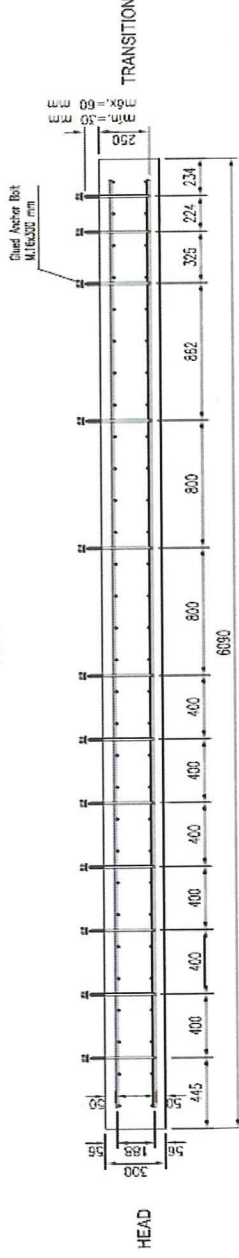
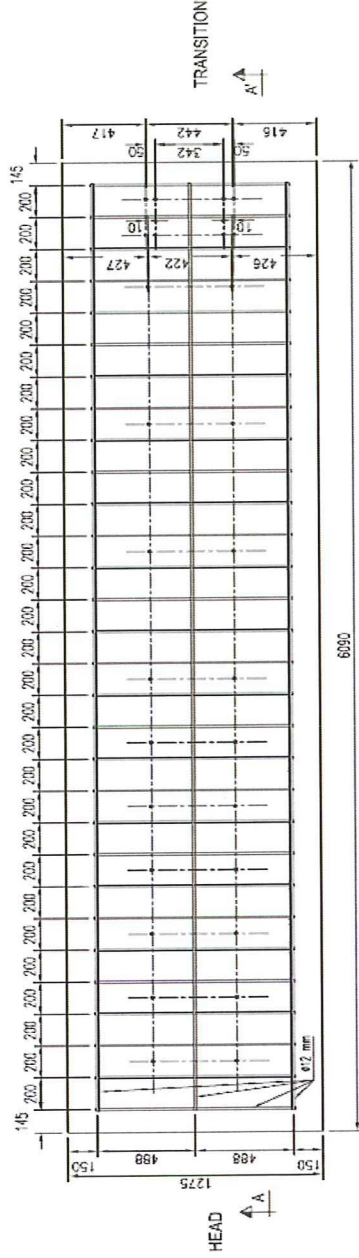
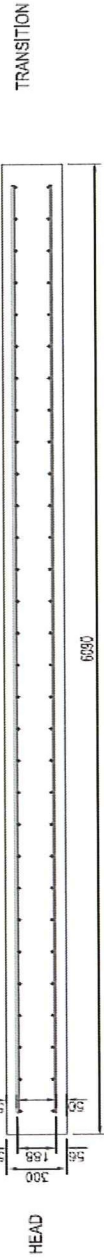


**REDIRECTIVE CRASH CUSHION  
"AIR H-100P"  
FOUNDATION  
(REINFORCED CONCRETE SLAB)**

**Bureau Veritas Certification,**  
Valporello Primera, 22-24, P.I. de La Granja 28108 Alcobendas - Madrid  
Notified Body Nº 1035  
**EC CERTIFICATE OF CONFORMITY**  
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**BUREAU VERITAS  
Certification**



- REINFORCEMENT BARS (EXCLUDING ANCHOR BOLTS): B 500 SD
- CONCRETE GRADE: HA-25
- ANCHOR BOLTS: M.16x300 / Min. grade: 5.8
- HOT DIP GALVANIZED (according to EN ISO 1461).
- BICOMPONENT RESYN OF INJECTION FROM PURE EPOXY.

NOTE:  
FOR DIMENSIONS WITHOUT SPECIFIC TOLERANCE  
GENERAL TOLERANCE IS ±2

Dimensions in mm

