



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-110P”**” – 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-AA



Arturo Villar López

GENERAL DIRECTOR of HIASA

29/07/2010



Hiasa
Grupo Gonvarri

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BUREAU VERITAS
Certification



EC CERTIFICATE OF CONFORMITY

Certificate Nº. 1035-8003008-AA

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-110P”, whose performances under impact and characteristics are detailed in the attached annex (two pages)

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 1.1.100, TC 2.1.100, TC 4.3.110, TC 1.3.110, TC 3.3.110 and TC 5.3.110 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 16-07-2013.

Place and date of first approval: Madrid 16-07-2010.

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



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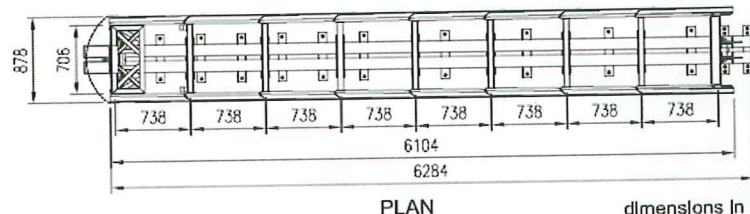
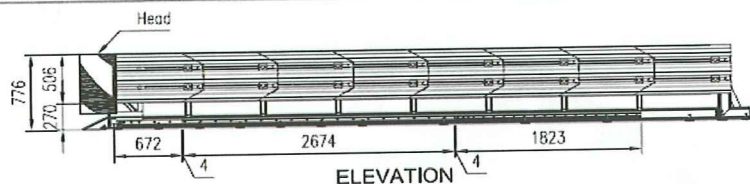
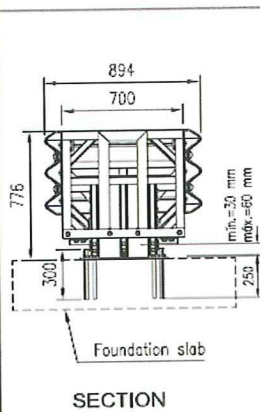
BUREAU VERITAS
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Bureau Veritas Certification,
Valporillo Primera, 22-24, P.I. de La Granja 28108 Alcobendas - Madrid
Notified Body N° 1035
EC CERTIFICATE OF CONFORMITY
N° 1035-8003008-AA
Date of Approval : 16 de July de 2010



**ROAD RESTRAINT SYSTEMS - CRASH CUSHION:
REDIRECTIVE CRASH-CUSHION "AIR H-110P"**



dimensions in mm

Placed in the market by:

Produced in:

HIASA
Polígono Industrial de Candlenes
33470 Corvera, Asturias - SPAIN

HIASA
Polígono Industrial de Candlenes
33470 Corvera, Asturias - SPAIN

EUROPEAN STANDARDS:

PERFORMANCE UNDER IMPACT:

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

a) Performance under impact: **110 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 1.1.100 : Opel Corsa, 1987 TC 1.3.110 : Ford Scorpio, 1980
TC 2.1.100 : Opel Corsa, 1988 TC 3.3.110 : Ford Scorpio, 1985
TC 4.3.110 : Ford Scorpio, 1980 TC 5.3.110 : Ford Scorpio, 1985

OBSERVATIONS: NONE

INITIAL TYPE-TEST LABORATORY :

FUNDACIÓN CIDAUT, Valladolid (Spain)

VEHICLE IMPACT TEST CODES :

E09-2511 (TC 1.1.100) E09-2854 (TC 1.3.110)
E08-0755 (TC 2.1.100) E09-1149 (TC 3.3.110)
E09-2121 (TC 4.3.110) E09-2586 (TC 5.3.110)

**MATERIALS:
STANDARDS:**

Steel
EN 10025
EN ISO 4957

**DURABILITY:
STANDARDS:**

Hot dip galvanizing EN ISO 1461
EN ISO 14713

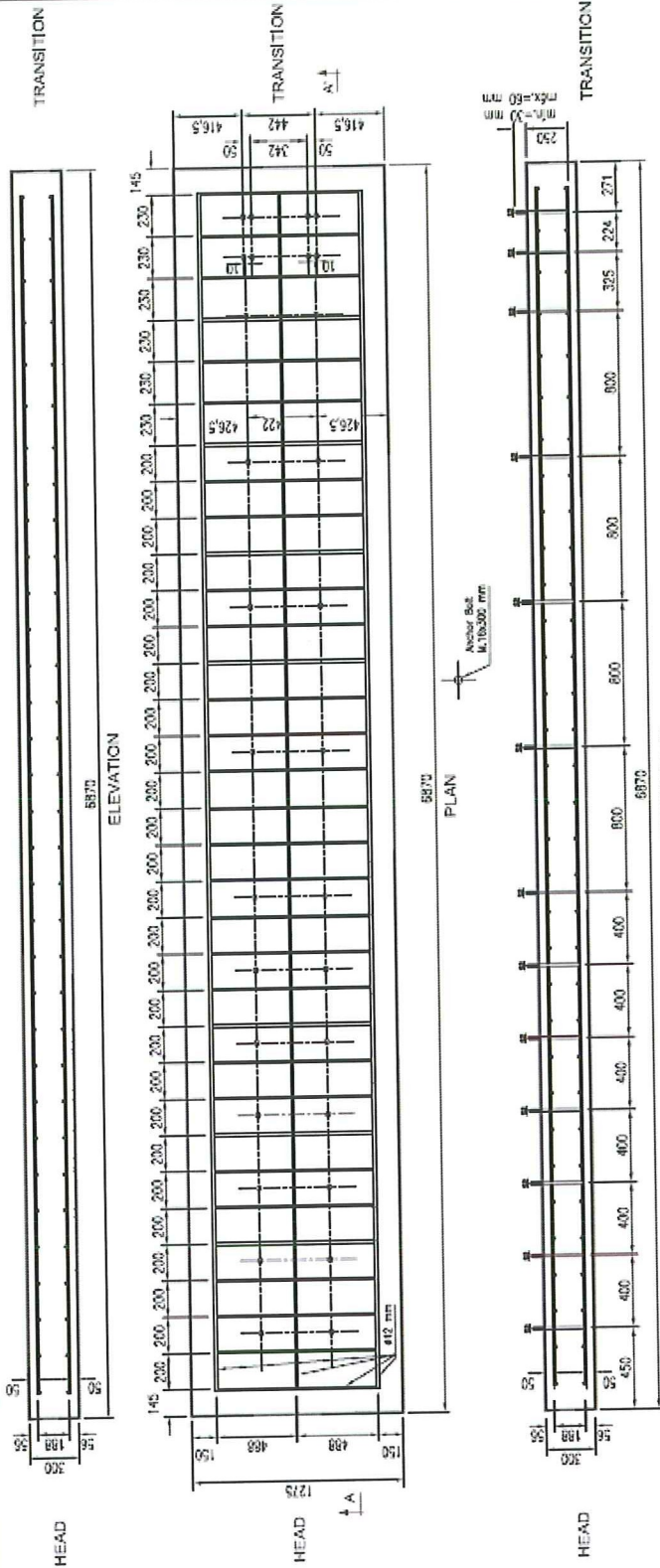




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REDIRECTIVE CRASH CUSHIONS
"AIR H-110P"
FOUNDATION
(REINFORCED CONCRETE SLAB)



- REINFORCEMENT BARS (EXCLUDING ANCHORAGES): B 500 SD
- CONCRETE GRADE: HA-25
- ANCHOR BOLTS: M. 16x300 / Mfn. Grades: 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 A2

Dimensions in mm

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