



(1) EC-TYPE EXAMINATION CERTIFICATE

(2) Equipment or protective system intended for use in potentially explosive atmospheres  
Directive 94/9/EC

(3) EC-Type Examination Certificate nr. **LOM 08ATEX2048 X**

(4) Equipment or protection system Cable entries  
Types H...Ex

(5) Applicant HAWKE TRANSIT SYSTEM, S.L.

(6) Address Paseo del Niño, 4, nave B2  
39300 TORRELAVEGA (Cantabria)  
SPAIN

(7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) Laboratorio Oficial J.M. Madariaga (LOM), notified body number 0163 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.  
The examination and test results are recorded in confidential report nr. **LOM 07.456 UP**


(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

- Standards **EN 60079-0:2006** **EN 60079-7:2007**
- EN 61241-0:2006** **EN 61241-1:2004**


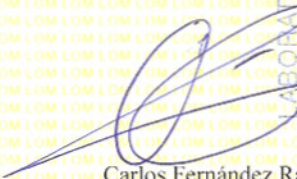
(10) If the sign X is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.


(11) This EC-Type Examination Certificate relates only to the design and construction of this specified equipment or protective system in accordance with the Directive 94/9/EC. Further requirements of the Directive apply to the manufacture and supply of this equipment or protective system. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:

 II 2 GD  
Ex e II  
Ex tD A21 IP66  
-20 °C ≤ Ta ≤ +80°C

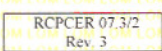
Madrid, 22<sup>th</sup> September 2008

OFICIAL  
LABORATORIO J.M. MADARIAGA  
  
  
Carlos Fernández Ramón  
DIRECTOR OF THE LABORATORY

  
Angel Vega Remesal  
Head of the ATEX

This Certificate is a translation from the original in Spanish. The LOM liability applies only on the Spanish text

(This document may only be reproduced in its entirety and without any change) Page 1 / 3





# LABORATORIO OFICIAL J. M. MADARIAGA

**(A1) SCHEDULE**

**(A2) EC-Type Examination Certificate: LOM 08ATEX2048 X**

**(A3) Description of equipment or protective system**

The cable entries consist of a frame, rubber modules of prismatic shape and a compression system. The rubber modules are available in different sizes and each can accept a range of cable diameters. The modules are also available without holes that allow the filling of spaces in the frames. The range of diameters of cables is between 3 and 100 mm. Each module is distinguished by colour coding.

The frames are indicated to be placed screwed into walls of enclosures for electrical equipment.

**Rubber modules types:**

Dimensions mm	Reference	Cable diameter (mm)
15x15	HF150	0 (*)
	HF153	3 to 5
	HF155	5 to 7
	HF157	7 to 9
20x20	HF200	0 (*)
	HF203	3 to 6
	HF206	6 to 9
	HF209	9 to 12
	HF2011	11 to 14
	HF2013	13 to 16
30x30	HF300	0 (*)
	HF3012	12 to 15
	HF3015	15 to 18
	HF3018	18 to 21
	HF3021	21 to 24
40x40	HF400	0 (*)
	HF4022	22 to 25
	HF4025	25 to 28
	HF4028	28 to 31
	HF4031	31 to 34

(\*) modules without hole

Dimensions mm	Reference	Cable diameter (mm)
60x60	HF600	0 (*)
	HF6031	31 to 34
	HF6034	34 to 37
	HF6037	37 to 40
	HF6040	40 to 43
	HF6043	43 to 46
	HF6046	46 to 49
	HF6049	49 to 52
90x90	HF6052	52 to 54
	HF900	0 (*)
	HF9053	53 to 56
	HF9056	56 to 59
	HF9059	59 to 62
	HF9062	62 to 65
120x120	HF9065	65 to 68
	HF9068	68 to 71
	HF1200	0 (*)
	HF12072	72 to 75
	HF12075	75 to 78
	HF12078	78 to 81
	HF12081	81 to 84
	HF12084	84 to 87
	HF12087	87 to 90
	HF12090	90 to 93
HF12093	93 to 96	
HF12096	96 to 100	

OFICIAL



This Certificate is a translation from the original in Spanish. The LOM liability applies only on the Spanish text



# LABORATORIO OFICIAL J. M. MADARIAGA

**(A1) SCHEDULE**

**(A2) EC-Type Examination Certificate: LOM 08ATEX2048 X**

**(A3) Description of equipment or protective system (continue)**

**Frame types**

**HMX, HCX** Rectangular frames with flange for rubber modules of 60 mm in depth

Type	Internal area size mm	External dimensions
		mm
H*X2	100x120	220x240
H*X4	160x120	280x240
H*X6	220x120	340x240
H*X8	280x120	400x240

**HES** Rectangular frames without flange for rubber modules of 30 mm in depth.

They have threaded holes in the frame for fixing

Type	Internal area size	External dimensions
	mm	mm
HES40	220x40	240x60
HES60	220x60	240x80

**(A4) Test report nr LOM 07.456 UP**

**(A5) Special conditions for safe use**

- They may be used in fixed cable installations
- It must be ensured additional means to fix the cable with the types HES\*

**(A6) Individual tests**

None

**(A7) Essential Health and Safety Requirements**

Explosion safe requirements are covered by application of the standards indicated in page 1/3 of this certificate.

**(A8) Descriptive Documents**

Technical description

- Drawings nr.:

	Rev.	Date
ATEX 1	A	2008-06-10
ATEX 8	A	2008-06-10
ATEX 9.1	A	2008-06-10
ATEX 9.2	A	2008-06-10
ATEX 10	A	2008-06-10
ATEX 11	A	2008-06-10



This Certificate is a translation from the original in Spanish. The LOM liability applies only on the Spanish text