

## Type Approval Certificate

*This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the LR Type Approval System.*

This certificate is issued to:

<b>PRODUCER</b>	Dietzel GmbH
<b>PLACE OF PRODUCTION</b>	1. Haidequerstrasse 3-5 1110 Vienna Austria
<b>DESCRIPTION</b>	Halogenfree cable management systems
<b>TYPES</b>	HFIRM 16, 20, 25, 32, 40, 50: Halogenfree rigid electrical conduits, light gauge HFPRM 16, 20, 25, 32, 40, 50, 63: Halogenfree rigid electrical conduits, medium gauge HFBS 16, 20, 25, 32, 40, 50: Halogenfree rigid electrical conduits, heavy gauge HFXS 16, 20, 25, 32, 40, 50, 63: Halogenfree flexible electrical conduits, light gauge HFXP 16, 20, 25, 32, 40, 50, 63: Halogenfree pliable electrical conduits, medium gauge HFXP-HT 16, 20, 25, 32, 40, 50, 63: Halogenfree pliable electrical conduits, medium gauge PKGHI 100, 200, 300: Halogenfree adaptable boxes HFMS 16, 20, 25, 32, 40, 50, 63: Halogenfree couplers HFBS 16, 20, 25, 32, 40, 50, 63: Halogenfree normal bends
<b>APPLICATION</b>	Suitable for marine, offshore and industrial use
<b>Certificate No.</b>	08/20003
<b>Issue Date</b>	11 January 2008
<b>Expiry Date</b>	10 January 2013
<b>Sheet</b>	1 of 2



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**SPECIFIED STANDARDS** EN 50086-1:1993-12, EN 50086-2-1:1995-05,  
EN 50086-2-2:1995-05, EN 50086-2-3:1995-05  
IEC 60754-1:1994-01

*"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."*

*The Design Appraisal Document No. ETS 18247-08 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

**Certificate No.** 08/20003  
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# Marine Design Appraisal Document

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Date  
11 January 2008

Quote this reference on all future communications  
HPC 0620385/18247-08/JK/WR

**THE LLOYD'S REGISTER'S TYPE APPROVAL SYSTEM, 2002  
ISSUED TO: DIETZEL GMBH, VIENNA - AUSTRIA  
FOR: HALOGENFREE CABLE MANAGEMENT SYSTEM  
TYPE APPROVAL CERTIFICATE NO. 08/20003**

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register's Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

## APPROVAL DOCUMENTATION

Form LR6606 84115	Approval Services – Request for Quotation General catalogue	07.09.06 02.2006
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## TEST REPORTS

TGM-VAKU 21090/C-1533	TGM test report	09.11.2005
69-197-01	Test report ÖVE, HFIRxx	07.03.2006
NTR/AT 1646	Test report ÖVE, HFIRxx	16.02.2006
NTR/AT 1645	Test report ÖVE, HFPRxx	16.02.2006
FQB-HG05	Formblatt for VAEE 30597	14.02.2006
69-196-01	Test report ÖVE, HFPRxx	07.03.2006
CCA/AT 1211	Notification of test results HFBS	21.10.1998
CCA/AT 1149	Notification of test results HFXS	25.11.1997
CCA/AT 1251	Notification of test results HFXP	24.06.1999
NTR/AT 1315	Notification of test results HFXP-HT	10.08.2000
STR/AT 500	Notification of test results PKG, PKGH	18.07.1997
NTR/AT 1366	Notification of test results HFBS, HFSM	17.09.2001
39.678	Test report HFXPP halogenfree	17.08.1998
39.494	Test report HFIR, HFPR, HFBS	21.07.1998
43.578	Test report LURANYL KR	26.06.2000

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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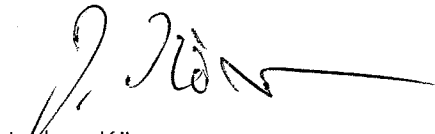
**Supplementary Type Approval Terms and Conditions**

*Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.*

*Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.*

*Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.*

*Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the LR Type Approval System Procedure.*



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FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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**Part 1**  
**Subject: Electrical Equipment (Not Environmentally Tested)**  
**Product: Enclosure Systems**

Producer/Licence No.		Description of Product			Cert. No.
Type	Details of Approval	Application	Remarks		
<p>Dietzel GmbH                      1. Haidequerstrasse 3-5                      1110 Vienna                      Austria</p>	<p>Halogen free cable management system, consisting of rigid conduits with or without plan ends</p> <p>Halogenfree rigid electrical conduits, light gauge</p> <p>Halogenfree rigid electrical conduits, medium gauge</p> <p>Halogenfree rigid electrical conduits, heavy gauge</p> <p>Halogenfree flexible electrical conduits, light gauge</p> <p>Halogenfree pliable electrical conduits, medium gauge</p> <p>Halogenfree pliable electrical conduits, medium gauge</p> <p>Halogenfree adaptable boxes</p> <p>Halogenfree couplers</p> <p>Halogenfree normal bends</p>	<p>Suitable for marine, offshore and industrial use.</p>	<p>Expires on: 10 January 2013</p> <p>Comply with:                      EN 50086-1:1993-12,                      EN 50086-2-1:1995-05,                      EN 50086-2-2:1995-05,                      EN 50086-2-3:1995-05                      IEC 60754-1:1994-01</p>	08/20003	

*R*  
 21.1.2008