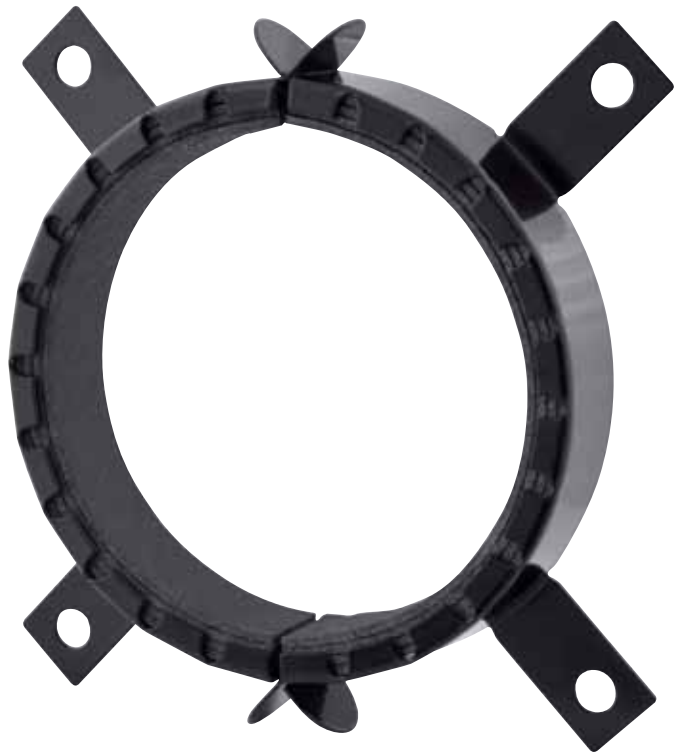


BIS Pacifyre® AWM III Fire Collar



Approval Certificate No. 1010

- Fire Collar for plastic pipe penetrations in walls and floors -

Nordic

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TYPE APPROVAL CERTIFICATE 1010 WITH DIRECTIONS ON PRODUCTION CONTROL

KEYWORD: FIRE PROTECTION
Fire stop for pipe penetrations

BBR 1, 5
BSAB: ZSC

Certificate holder

J. Van Walraven Holding B.V., Industrieweg 5, NL-3641 RK MIJDRECHT
Tel +31 297 233000, Fax +31 297 233099
Homepage: www.walraven.com

Product name: BIS PACIFYRE® AWM III FIRE COLLAR

BIS PACIFYRE® AWM III FIRE COLLAR, Fire protection collars for plastic (combustible) pipe penetrations, for apertures in solid or flexible walls and ceilings. Product performance, design type, size and the application of the sealing system to building element and the fire resistance class are described in the associated documents.

Intended use / Application

FIRE STOP to prevent the fire spread of through a plastic pipe aperture. Suitable for penetration through elements of structure separating fire compartments, walls and floors solid structures of concrete, lightweight concrete or brickwork and light weight wall structures (dry/gypsum walls).

Specifications for application are described in the details of Appendix 1.

Approval

The above products are approved with respect to the following paragraphs in the Swedish Building Regulations (BBR):

Construction products with confirmed properties	1:4
Fire protection. Fire resistance class EI 240/EI 180/EI 60*	
(according to EN 13501-2 and EN 1366-3)	5:231
Protection against the spread of fire and the fire gases between fire compartments	5:5

* Penetration with plastics pipes. Fire resistance class and application according to associated documents.

Within the prescribed field of application the product meets the criteria stipulated in PBL Cap. 8, 4§ Regulations governing the technical properties of materials used in construction works

2. Safety in case of fire

Appendix 1	Associated documents	28/05/2013
Appendix 2	Product markings	28/05/2013
Appendix 3	Directions on production control	28/05/2013
Appendix 4	Basis of the certificate	28/05/2013

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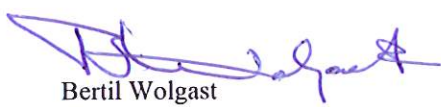
Decision: 28/05/2013

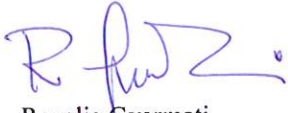
Reg. No: 339/13

Valid until: 11/04/2016

Earlier Reg. No: 126/11

Kiwa Swedcert


Bertil Wolgast
TC


Rozalia Gyarmati
TM



Appendix 1
to Type approval certificate 1010**Product: BIS Pacifyre® AWM III Fire Collar**
Holder: J. van Walraven Holding B.V.**ASSOCIATED DOCUMENTS 28/05/2013**

1. **BIS Pacifyre® AWM III Fire Collar / BIS Pacifyre® IWM III Fire Strip** – BIS FIRE PROTECTION SYSTEMS, WALRAVEN product brochure with description and Assembly instructions, updated by Swedcert 2013-04-18.
2. Specification of Application. (updated 2013-05-28)
 - Description and Details: 01-12 and
 - Information for combustible Pipes and Insulations (Detail B1)

Comments

Approved pipes / pipe system in EI 60-EI 180-EI 240 quality:

PVC, PP, PE, PE-X and ABS

EI 240 for pipes with outer diameter ≤ 110 mmEI 180 for pipes with outer diameter > 110 mm and ≤ 160 mmEI 60 for pipes with outer diameter ≤ 400 mm**Appendix 2**
to Type approval certificate 1010**Product: BIS Pacifyre® AWM III Fire Collar**
Holder: J. van Walraven Holding B.V.**PRODUCT MARKINGS 28/05/2013**

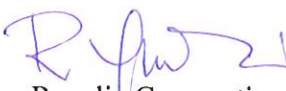
The product should be marked at the factory, by means of a label on each packing of products delivered, and the label is to be showing:

- Certificate holder (J. van Walraven Holding B.V., The Netherlands)
- Manufacturer (Walraven Factory S2.)
- Product type designation (BIS PACIFYRE® AWM III Fire Collar)
- Consecutive manufacturing number or date of production
- Registered mark of Boverket (Swedish Board of Housing Building and Planning) , with the accreditation number of the certification body 1913
- Mark of certificate and No: Kiwa SWEDCERT  TA No 1010
- Inspection body (name or the registered mark)

Annotation

The fire tightened penetration systems, executed according to the above Associated documents are to be labelling by executors / contractors with Fire resistance class and TA no 1010.

Kiwa SWEDCERT


Rozalia Gyarmati

**Appendix 3
to Type approval certificate 1010****Product: BIS Pacifyre® AWM III Fire Collar**
Holder: J. van Walraven Holding B.V.**DIRECTION FOR QUALITY CONTROL 28/05/2013**

Production quality control comprises the manufacturer's own inspection – the internal quality control, and the surveillance inspection – the external quality control. The external quality control should be carried out by an accredited inspection authority.

Production control should be carried out according to "CONTROL INSTRUCTION for BIS PACIFYRE® AWM III Fire Collar and BIS PACIFYRE® IWM III Fire Strip", dated 11/04/2011, updated 2013-04-18.

The type approval certificate is valid provided that the certificate holder reports annually to Kiwa SWEDCERT on quality control carried out.

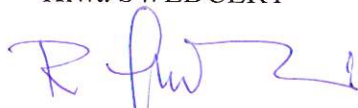
Control on the building site will ensure that the correct products have been delivered, by identifying by means of the marking. That will further ensure that workmanship and application of the products comply with the type approval and the specifications in the associated documents

**Appendix 4
to Type approval certificate 1010****Product: BIS Pacifyre® AWM III Fire Collar**
Holder: J. van Walraven Holding B.V.**BASIS OF APPROVAL 28/05/2013**

Following test reports and documents form the basis of this approval:

1. BAR 1993:2 (General advisory publication of the Board/Boverket), edition 2 (Guidelines for type approval. Safety in case of fire).
2. Fire resistance classification REPORT N° 14027B, from Warringtonfiregent NV, Belgium.
3. Certificate ISO 9001:2000, Registr. No 09 100 4164 by TÜV Rheinland Cert GmbH.
4. Allgemeine bauaufsichtliche Zulassung Nr Z-19.17-1651, from DIBt /Deutsches Institut für Bautechnik.
5. Überwachungsvertrag und Zertifizierungsvertrag Nr. ÜZ-3/1045/08 (ÜZ-3/1115/10) from MPA/iBMB tu Braunschweig.
6. KIWA Certificate KSC-K12928/05 by KIWA N. V. Certification and Inspection, The Netherlands.
7. IBS PRÜFBERICHT nr: 07072304 and 06071204 (IBS Austria)
8. TNO Report 2005-CVB-R0257 (Netherlands)
9. MPA/NRW Report Nr. 210004729 (Germany)
10. Efectis Nederland Report 2009-Efectis-R0324 (Rev. 1).
11. Additional short form classification REPORT No. 14318E, from Warringtonfiregent, Belgien
12. Acknowledgement of annual report from Kiwa SWEDCERT, dated 2013-04-18.

Kiwa SWEDCERT


Rozalia Gyarmati