

Declaration of Performance Nr 13004 dated 2013-12-29		
1. Product name	NOFIRNO®	
2. Type identification	NOFIRNO sealing system (filler sleeves and sealant), size range see annex, batch number see packaging	
3. Intended use	Sealing system for fire safe wall and floor pipe penetrations	
Name and contact address of manufacturer	Beele Engineering BV Vierde Broekdijk 12 7122 JD Aalten The Netherlands	
Name and contact address of authorised representative	Not applicable	
System of assessment and verification of constancy of performance (AVCP)	System 1	
7. Notified Body	Not applicable	
8. Technical Assessment Body	Technical Assessment Body No.0620, Kiwa Nederland BV, issued ETA 13/0153 on the basis of ETAG 026 part 2, performed the activities: • the evaluation and approval of the products based on initial type assessment (including sampling) • the initial inspection of the production installation and to factory production control • the permanent surveillance and evaluation of the factor production control and issued certificate of constancy of performance of product with the unique number 76875	

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9. Declared performance			
Essential characteristics	Performance	Standard	Harmonised technical specification
Reaction to fire	Class E	EN-ISO 11925-2 EN 13501-1	ETAG 026 part 2
Resistance to fire • Fire resistance classification	EI 120-C/U and E 120-C/U	EN 1366-3 EN 13501-2	
Air permeability	NPD		
Water permeability	NPD		
Emission of dangerous substances or radiation	NPD		
Mechanical resistance and stability	NPD		
Airborne insulation	NPD		
Water vapour permeability	NPD		
Durability and serviceability Use categories: Type Y ₂ , Z ₁ , Z ₂			
NOFIRNO filler sleeves1. Durability of physical-mechanical properties2. Components and materials compatibility	No essential change in performance Compatible with metal pipes, concrete wall and floor and hard plastic conduit pipes	EOTA TR 024, table 4-2	
3. Physical-mechanical properties Hardness Density Tensile strength Elongation at break Limited oxygen index (LOI)	65 – 85 Shore A 1,55 – 1, 65 Mg/m³ ≥ 2,0 MPa ≥ 100 % ≥ 40 %	ISO 7619-1 ISO 2781 ISO 37 ISO 37 ASTM D2863	

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9. Declared performance (continued)				
Essential characteristics	Performance	Standard	Harmonised technical specification	
Durability and serviceability Use categories: Type Y ₂ , Z ₁ , Z ₂			ETAG 026 part 2	
NOFIRNO sealant 4. Durability of physical-mechanical properties	No essential change in performance	EOTA TR 024, table 4-2		
Components and materials compatibility	Compatible with metal pipes, concrete wall and floor and hard plastic conduit pipes			
6. Physical-mechanical properties Density of uncured material Viscosity of uncured material Hardness after curing Elongation at break Limited oxygen index (LOI)	1,42 – 1, 52 Mg/m ³ 30 – 60 g/sec 35 – 55 Shore A ≥ 50 % ≥ 35 %	ISO 2781 Internal test ISO 7619-1 ISO 37 ASTM D2863		

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Aalten, 2013.12.29

BEELE Engineering BV

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J.A. Beele Managing Director



ANNEX List of NOFIRNO sleeves

NOFIRNO filler sleeve	sleeve length
18/12 multi	60
18/12 single	110
18/12 multi	110
18/12 single	140
18/12 multi	140
18/12 single	160
18/12 multi	160
18/12 single	210
18/12 multi	210
27/19 multi	60
27/19 multi 27/19 single	110
27/19 single 27/19 multi	110
27/19 mail 27/19 single	140
27/19 multi	140
27/19 single	160
27/19 multi	160
27/19 single	210
27/19 multi	210
22/15 multi	60
22/15 multi	110
22/15 multi	140
22/15 multi	160
22/15 multi	210

All dimensions in mm

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ANNEX PRODUCT INFORMATION SEALANT

01) colour red brown

02) specific gravity $1.40 \pm 0.03 \text{ g/cm}^3$

curing of top layer 0.5 - 1 hour depending on 03)

temperature and air humidity

04) service temperature -50 °C up to +180 °C

1.5 MPa 05) tensile strength elongation at break 200% 06)

07) hardness 45 Shore A elastic deformation approx. 50%

UV, Ozone, arctic conditions 09) resistance

ageing more than 20 years 10) 11) supplied in 310 ml cartridges 12) storage to be stored cool and dry min/max temperature =

+5/+30° C

13) storage life guaranteed 6 months;

> when applied later than 6 months after date of manufacturing, curing and adhesive properties have to be checked before application

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