

## **Braunschweig Civil Engineering Materials Testing Institute** (MPA Braunschweig)

Beethovenstr. 52, DE-38106 Braunschweig, Germany Tel: ++49(0)531-391-5400 Fax: ++49(0)531-391-5900 Email: info@mpa.tu-bs.de Website : www.mpa.tu-bs.de

## This certificate of compliance validates the following

TEST REPORT NUMI DATE OF ISSUE: DATE OF EXPIRY: <sup>1)</sup> see also additional test NAME OF FACTORY/ MANUFACTURER: FACTORY ADDRESS/REGION:	BER: 3503/282/08 <sup>1)</sup> 2009-06-03 N/A reports and documents on the back of th Zapp-Zimmermann GmbH Marconistr. 7 - 9 D-50769 Köln Germany Tel: ++49(0)221-97061-0 Fax: ++49(0)221-97061-929 Email: info@z-z.de	CERTIFICATE N DATE OF ISSUE DATE OF EXPIR- nis document NAME OF THE BRAND: MODEL/NO: LOGO ON THE PRODUCT:	2015-06-30	CERTIFICATION MARK:
DESCRIPTION OF THE PRODUCT:	Mixed penetration seal of pre-sh used to shut openings made for well as in shaft constructions in o where they are penetrated.	cables and/or pipes	in flexible and rigid walls and i	igid ceilings as
TEST STANDARD: TEST DESCRIPTION:	EN 1366-3; EN 1363-1 The test was carried out in accor with installations as cable trays, the mixed penetration seal. The	cables, cable-bundle	s and pipes where the gaps w	ere filled with
	testing time was more than 120			
SPECIFICATION OF				
<b>TEST SPECIMEN:</b>	SPECIMEN: penetration seal. Additional loads were used for the cable trays. According to the test standard attention was paid to the number and positions of the installations as well as to their distances			
			e installations as well as to th	eir distances
	among themselves and to the re-	veals.		Support Restriction
TEST RESULT:	MAINTENANCE OF FUNCTION		INTERPRETATION	RESULT
	INTEGRITY FOR 120 MIN		SUCCESSFUL	PASS
	INSULATION FOR 120 MIN		SUCCESSFUL	PASS
NAME OF TEST FACILITY: MPA Braunschweig   TEST FACILITY Beethovenstr. 52, D-38106 Braunschweig   ADDRESS/REGION: Tel: ++49(0) 531 391 5400, Fax: ++49(0) 531 391 5900   Email: info@mpa.tu-bs.de, Website: www.mpa-tu-bs.de   PRODUCT APPLICATION The penetration seal must be used according to the provisions in the manufacturer's man cal. The minimal thickness for walls is 100 mm and for ceilings 150 mm.   GUIDELINE (END USE): The above certificate is valid only when installed in accordance with the 'Product Application Guideline (End Use)'. To verify the validity of the product please log into our website, click on 'others' and then on 'certificates'. You will find a list of manufacturers and a certificate with the number as given above.   PAGE 10F 2				
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ACCREDITED BY: DAkkS AS PER: ISO/IEC 17065 VALIDITY: 1<sup>st</sup> NOVEMBER 2017 REFERENCE NUMBER: D-ZE-11267-01-00

DAkkS ISO/IEC 17025 18<sup>th</sup> MARCH 2017 D-PL-11267-03-00

## THE LIST OF ACCREDITED TESTS (FIRE AND LIFE SAFETY PRODUCTS ONLY)

TEST STANDARD	TITLE
EN 1363-1	Fire resistance tests –
	Part 1: General Requirements
EN 1366-3	Fire resistance tests for service installations –
	Part 3: Penetration seals
DIN 4102-9	Fire behaviour of building materials and elements; seals for cable penetrations; concepts,
	requirements and testing

Additional test reports of MPA Braunschweig and other documents for the mixed penetration seal 'Fire Protection Block ZZ 230'

- No. 3237/3623 of 2005-12-01
- No. 3927/0723 of 2003-10-17
- No. 3295/0711 of 2001-07-11
- No. 3346/8829 of 2000-05-18
- No. 3945/9458 of 1998-12-11
- No. 3738/380/10 of 2011-02-01
- No. 3022/353/08 of 2008-05-23
- No. 3333/207/09 of 2009-07-29

**National and EU approvals** 

No. Z-19.15-1182 of 2014-02-14

No. ETA-10/0431 of 2013-06-25

