



Date : 03/05/2018

CERTIFICATE OF COMPLIANCE

This certificate of compliance validates the following			
TEST REPORT NUMBER 'Assessment Reports' are not acceptable	18564A 18565A	CERTIFICATE NUMBER	CF5603
DATE OF ISSUE	See below	DATE OF ISSUE	30 th January 2018
DATE OF EXPIRY	N/A	DATE OF EXPIRY	29 th January 2023
Manufacturer details			
NAME OF FACTORY/ MANUFACTURER	Den Braven Benelux BV Denariusstraat 11 4903 RC OOSTERHOUT Netherlands	NAME OF THE BRAND	Zwaluw [®]
FACTORY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	Den Braven Benelux BV Denariusstraat 11 4903 RC OOSTERHOUT Netherlands	MODEL / NO	FP Acrylic Sealant
WEBSITE	www.denbraven.com	LOGO ON THE PRODUCT	Zwaluw [®] FP Acrylic Sealant
TEL	+ 31(0) 162491000	EMAIL	Ruud.Schrama@denbraven.nl



Product Details From Test Report		Reference Test Report page NO																																																																																																																																														
DESCRIPTION OF THE PRODUCT (TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/ SENSITIVITY ETC)	18564A AnAcrylic sealant for fire protection where there are substrates abut walls and floors.	5																																																																																																																																														
TEST STANDARD (SUCH AS ASTM/BS EN/ DN ETC)	EN 1366-4:2006	1																																																																																																																																														
TEST DESCRIPTION	EN 1366-4:2006-Fire resistance tests for service installations Part 4 Linear Joint seals	2																																																																																																																																														
SPECIFICATION OF TEST SPECIMEN	<p>1.3.1.4 Overview of the joint seals</p> <table border="1"> <thead> <tr> <th rowspan="2">Position</th> <th>Supporting construction</th> <th rowspan="2">Orientation</th> <th colspan="3">Joint seal</th> <th colspan="3">Movement</th> </tr> <tr> <th>Types*</th> <th>Type</th> <th>Width [mm]</th> <th>Thickness [mm]</th> <th>Type</th> <th>Δ [%]</th> <th>Δ [mm]</th> </tr> </thead> <tbody> <tr><td>A</td><td>RW/RW</td><td>Vertical</td><td>Zwaluw * FP Silicone Sealant [4]</td><td>10</td><td>10</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>B</td><td>RW/RW</td><td>Vertical</td><td>Zwaluw * FP Silicone Sealant [4]</td><td>20</td><td>13</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>C</td><td>RW/RW</td><td>Vertical</td><td>Zwaluw * FP Silicone Sealant [4]</td><td>30</td><td>16</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>D</td><td>RW/RW</td><td>Vertical</td><td>Zwaluw * FP Silicone Sealant [4]</td><td>40</td><td>20</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>E</td><td>RW/RW</td><td>Vertical</td><td>Zwaluw * FP PU Foam [5]</td><td>10</td><td>100</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>F</td><td>RW/RW</td><td>Vertical</td><td>Zwaluw * FP PU Foam [5]</td><td>20</td><td>100</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>G</td><td>RW/RW</td><td>Vertical</td><td>Zwaluw * FP PU Foam [5]</td><td>30</td><td>100</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>H</td><td>RW/RW</td><td>Vertical</td><td>Zwaluw * FP Acrylic Sealant [2]</td><td>10</td><td>10</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>I</td><td>RW/RW</td><td>Vertical</td><td>Zwaluw * FP Acrylic Sealant [2]</td><td>20</td><td>13</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>J</td><td>RW/RW</td><td>Vertical</td><td>Zwaluw * FP Acrylic Sealant [2]</td><td>30</td><td>16</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>K</td><td>RW/RW</td><td>Horizontal</td><td>Zwaluw * FP Acrylic Sealant [2]</td><td>30</td><td>16</td><td>Shear</td><td>5</td><td>1.5</td></tr> <tr><td>L</td><td>RW/RW</td><td>Horizontal</td><td>Zwaluw * FP Hybrid Sealant [3]</td><td>20</td><td>13</td><td>Shear</td><td>25</td><td>5</td></tr> <tr><td>M</td><td>RW/RW</td><td>Horizontal</td><td>Zwaluw * FP Acrylic Sealant [2]</td><td>10</td><td>10</td><td>Shear</td><td>5</td><td>0.5</td></tr> <tr><td>N</td><td>RW/RW</td><td>Horizontal</td><td>Zwaluw * FP Hybrid Sealant [3]</td><td>10</td><td>10</td><td>Shear</td><td>25</td><td>2.5</td></tr> </tbody> </table> <p>* RW = Standard rigid wall construction</p>	Position	Supporting construction	Orientation	Joint seal			Movement			Types*	Type	Width [mm]	Thickness [mm]	Type	Δ [%]	Δ [mm]	A	RW/RW	Vertical	Zwaluw * FP Silicone Sealant [4]	10	10	-	-	-	B	RW/RW	Vertical	Zwaluw * FP Silicone Sealant [4]	20	13	-	-	-	C	RW/RW	Vertical	Zwaluw * FP Silicone Sealant [4]	30	16	-	-	-	D	RW/RW	Vertical	Zwaluw * FP Silicone Sealant [4]	40	20	-	-	-	E	RW/RW	Vertical	Zwaluw * FP PU Foam [5]	10	100	-	-	-	F	RW/RW	Vertical	Zwaluw * FP PU Foam [5]	20	100	-	-	-	G	RW/RW	Vertical	Zwaluw * FP PU Foam [5]	30	100	-	-	-	H	RW/RW	Vertical	Zwaluw * FP Acrylic Sealant [2]	10	10	-	-	-	I	RW/RW	Vertical	Zwaluw * FP Acrylic Sealant [2]	20	13	-	-	-	J	RW/RW	Vertical	Zwaluw * FP Acrylic Sealant [2]	30	16	-	-	-	K	RW/RW	Horizontal	Zwaluw * FP Acrylic Sealant [2]	30	16	Shear	5	1.5	L	RW/RW	Horizontal	Zwaluw * FP Hybrid Sealant [3]	20	13	Shear	25	5	M	RW/RW	Horizontal	Zwaluw * FP Acrylic Sealant [2]	10	10	Shear	5	0.5	N	RW/RW	Horizontal	Zwaluw * FP Hybrid Sealant [3]	10	10	Shear	25	2.5	6
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<p>PRODUCT APPLICATION GUIDELINE (END USE) (CLEARLY STATE THE END USE WITH SPECIFIC APPLICATION, SUCH AS EXACT FIRE RATING/TO BE INSTALLED IN_/TO BE INSTALLED AT_/TO BE CONNECTED WITH_/TO BE INSTALLED WITH_ ETC ALONG WITH ANY WARNINGS SUCH AS NOT TO BE USED IN_/NOT TO BE INSTALLED AT_/ NOT TO BE INSTALLED WITH_ ETC.</p>	<p>The walls shall be at least 100mm thick and have at least the same fire rating as that required for the linear joint seal.</p> <p>Block/masonry and concrete gap faces will be within the density min of 550 kg/m³, and gap faces will be free from loose or flaking material.</p> <p>Flexible wall constructions with a thickness of min 100mm, consisting off 50mm steel stud, 50mm thick 100 kg/m³ density stone wool boards, and min 2 x layers 12.5mm gypsum board. The maximum height of the flexible wall seals is 1000mm.</p>	
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Product Details From Test Report

Reference
Test Report
page NO

DESCRIPTION OF THE PRODUCT
(TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/ SENSITIVITY ETC)

18565A
A Acrylic sealant for fire protection where there are substrates abut walls and floors.

5

TEST STANDARD
(SUCH AS ASTM/BS EN/ DN ETC)

EN 1366-4:2006

1

TEST DESCRIPTION

EN 1366-4:2006-Fire resistance tests for service installations

2

SPECIFICATION OF TEST SPECIMEN

1.3.1.4 Overview of the joint seals

Position	Supporting construction		Joint seal			Movement		
	Types*	Orientation	Type	Width [mm]	Thickness [mm]	Type	Δ [%]	Δ [mm]
1	RW/RW	Vertical	Zwaluw® FP Hybrid Sealant [3]	10	10	-	-	-
2	RW/RW	Vertical	Zwaluw® FP Hybrid Sealant [3]	20	13	-	-	-
3	RW/RW	Vertical	Zwaluw® FP Hybrid Sealant [3]	30	16	-	-	-
4	RW/RW	Vertical	Zwaluw® FP Hybrid Sealant [3]	40	20	-	-	-
5	RW/TSC	Vertical	Zwaluw® FP Hybrid Sealant [3]	5	10	-	-	-
6	RW/TSC	Vertical	Zwaluw® FP Hybrid Sealant [3]	20	13	-	-	-
7	RW/TSC	Vertical	Zwaluw® FP PU Foam [4]	8	100	-	-	-
8	RW/TSC	Vertical	Zwaluw® FP PU Foam [4]	20	100	-	-	-
9	RW/PW	Vertical	Zwaluw® FP Acrylic Sealant [2]	10	10	-	-	-
10	RW/PW	Vertical	Zwaluw® FP Acrylic Sealant [2]	10	10	-	-	-
11	RW/RW	Horizontal	Zwaluw® FP Hybrid Sealant [3]	40	20	Shear	25	10
12	RW/PW	Horizontal	Zwaluw® FP Acrylic Sealant [2]	10	10	-	-	-
13	RW/TSC	Horizontal	Zwaluw® FP PU Foam [4]	20	100	-	-	-
14	RW/TSC	Horizontal	Zwaluw® FP Hybrid Sealant [3]	20	13	-	-	-
15	RW/TSC	Horizontal	Zwaluw® FP PU Foam [4]	8	100	-	-	-
16	RW/TSC	Horizontal	Zwaluw® FP Hybrid Sealant [3]	5	10	-	-	-

* RW = Standard rigid wall construction (thickness: 100 mm; density: 850 kg/m³)
TCC = Timber standard construction (thickness: 100 mm; density: 460 kg/m³)
FW = Standard flexible wall construction (thickness: 100 mm, according to EN 15662-4:2012 § 4.2.4 Separating elements – Flexible constructions)

6



TEST RESULT

(SUCH AS PASSED CRITERIA ___/
COMPLIED TO ___/
DURATION ___/OBSERVATION ___/ETC)

Position	OBSERVATIONS		EXCEEDS (MINUTES)	
	Thermal insulation – I*	Integrity – E*		
		$\Delta T_w = 180^\circ\text{C}$	Ignition of cotton pad	Spontaneous and sustained flaming
1	242 ⁽¹⁾	242 ⁽¹⁾	242 ⁽¹⁾	242 ⁽¹⁾
2	178	242 ⁽¹⁾	242 ⁽¹⁾	242 ⁽¹⁾
3	200	242 ⁽¹⁾	242 ⁽¹⁾	242 ⁽¹⁾
4	208	242 ⁽¹⁾	242 ⁽¹⁾	242 ⁽¹⁾
5	154 ⁽²⁾	154 ⁽²⁾	154	154 ⁽²⁾
6	125	138 ⁽²⁾	138	138 ⁽²⁾
7	150 ⁽²⁾	150 ⁽²⁾	150	150 ⁽²⁾
8	121	123 ⁽²⁾	123	123 ⁽²⁾
9	157	196 ⁽²⁾	196	196 ⁽²⁾
10	151	196 ⁽²⁾	196	196 ⁽²⁾
11	238	242 ⁽¹⁾	242 ⁽¹⁾	242 ⁽¹⁾
12	153	191 ⁽²⁾	191	191 ⁽²⁾
13	92	94 ⁽²⁾	94	94 ⁽²⁾
14	134	242 ⁽¹⁾	242 ⁽¹⁾	242 ⁽¹⁾
15	112 ⁽²⁾	112 ⁽²⁾	112	112 ⁽²⁾
16	148 ⁽²⁾	148 ⁽²⁾	148	148 ⁽²⁾

* Classification according to EN 13501-2.

(1) The test was stopped after 242 minutes at the sponsor's request.

(2) Not failed until the moment of spontaneous and sustained flaming.

14

PRODUCT APPLICATION GUIDELINE (END USE)

(CLEARLY STATE THE END USE WITH
SPECIFIC APPLICATION, SUCH AS EXACT
FIRE RATING/TO BE INSTALLED IN ___/TO
BE INSTALLED AT ___/TO BE CONNECTED
WITH ___/TO BE INSTALLED WITH ___ ETC
ALONG WITH ANY WARNINGS SUCH AS
NOT TO BE USED IN ___/NOT TO BE
INSTALLED AT ___/ NOT TO BE INSTALLED
WITH ___ ETC.

The walls shall be at least 100mm thick and have at least the same fire rating as that required for the linear joint seal.

Block/masonry and concrete gap faces will be within the density min of 550 kg/m³, and gap faces will be free from loose or flaking material.

Flexible wall constructions with a thickness of min 100mm, consisting off 50mm steel stud, 50mm thick 100 kg/m³ density stone wool boards, and min 2 x layers 12.5mm gypsum board. The maximum height of the flexible wall seals is 1000mm.



Laboratory and Certification body details			
NAME OF CERTIFICATION BODY	Exova (UK) Limited trading as Warrington Certification	NAME OF TEST FACILITY	WFRGENT N.V. (WARRINGTON FIRE GENT)
CERTIFICATION BODY ADDRESS / REGION <small>(STREET / TOWN / CITY / COUNTRY)</small>	Holmesfield Road Warrington WA1 2DS United Kingdom	TEST FACILITY ADDRESS / REGION <small>(STREET / TOWN / CITY / COUNTRY)</small>	Ottergemsesteenweg-Zuid 711 9000 GENT Belgium
WEBSITE	www.warringtoncertification.com	WEBSITE	www.wfrgent.com
TEL	+44 (0) 1925 655116	TEL	+32:9:243 77 50
EMAIL	info@exova.com	EMAIL	info@wfrgent.com
ACCREDITED BY <small>(NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE CERTIFICATION BODY, ALONG WITH WEBSITE)</small>	UKAS (United Kingdom Accreditation Services)	ACCREDITED BY <small>(NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE LABORATORY, ALONG WITH WEBSITE)</small>	BELAC - Belgian Accreditation Body
AS PER <small>(STANDARD TO WHICH THE CERTIFICATION BODY IS ACCREDITED TO)</small>	BS EN ISO/IEC 17065:2012	AS PER <small>(STANDARD TO WHICH YOUR ORGANIZATION IS ACCREDITED TO)</small>	ISO/IEC 17025:2005
VALIDITY <small>(EXPIRY DATE OF CERTIFICATION BODY ACCREDITATION)</small>	Initial Accreditation Granted: 01 st August 1999 Current Certificate Issued: 28 th June 2016	VALIDITY <small>(EXPIRY DATE OF LABORATORY ACCREDITATION)</small>	Current Certification Issued: 21 st Jan 2013
REFERENCE NUMBER: <small>(CERTIFICATION BODY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)</small>	UKAS Certification Body No.0087 Notified Certification Body No. 1121	REFERENCE NUMBER: <small>(THE LABORATORY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)</small>	Notified Body No. 1173
CERTIFICATION MARK			