




Date : 6<sup>th</sup> October 2017

## CERTIFICATE OF COMPLIANCE

This certificate of compliance validates the following			
<b>TEST REPORT NUMBER</b> 'Assessment Reports' are not acceptable	RFTR17113	<b>CERTIFICATE NUMBER</b>	IFCC 1323
<b>DATE OF ISSUE</b>	13.07.2017	<b>DATE OF ISSUE</b>	5 <sup>th</sup> October 2017
<b>DATE OF EXPIRY</b>	N/A	<b>DATE OF EXPIRY</b>	4 <sup>th</sup> October 2022
Manufacturer details			
<b>NAME OF FACTORY/ MANUFACTURER</b>	Al Muqarram Insulation Material Industry L.L.C.	<b>NAME OF THE BRAND</b>	Dolphin Fire Stop Silicone Sealant (AMI Fire Stop)
<b>FACTORY ADDRESS / REGION</b> (STREET / TOWN / CITY / COUNTRY )	Industrial Area 15, PO Box 24756, Sharjah, UAE 24756	<b>MODEL / NO</b>	N/A
<b>WEBSITE</b>	www.muqarram.com	<b>LOGO ON THE PRODUCT</b>	
<b>TEL</b>	+917 653 53796	<b>EMAIL</b>	qc@muqarram.com



Product Details From Test Report		Reference Test Report page NO
<b>DESCRIPTION OF THE PRODUCT</b> (TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/ SENSITIVITYETC)	DOLPHIN – Fire Stop Silicone Sealant.	Page 2 of 12
<b>TEST STANDARD</b> (SUCH AS ASTM/BS EN/ DNETC)	Tested in conformity with the general requirements of standards EN1363-1 :2012 with substitute or additional methods of standard EN1363-2:1999 and the particular requirements of standard EN1366-4: 2006+A1:2010 “Fire Resistance tests for service installations – Part 4:Linear joint seals.	Page 2 of 12
<b>TEST DESCRIPTION</b>	<p>Dolphin – Fire Stop Silicone sealant was applied to the metal surfaces and aerated concrete surfaces. Between the metal surface and supporting construction ceramic wool was used in accordance with EN1366-4 + A1:2010 standard. The thickness of the metal was 8mm. The supporting construction was supplied by the test laboratory (Efectis Era Avrasya) consisted of aerated concrete blocks which have a density of 650kg/m<sup>3</sup> and thickness of 200mm.</p> <p>Joint Details:-</p> <p>Aerated concrete – vertical joints: Joint width :10, 15, 25, 30, 40 mm Joint length :900 mm</p> <p>Mild steel angle – mild steel angle with cement mortar bedding: Width of joints: 25 mm Joint length: 900mm</p> <p>The fire test was conducted according to EN 1366-4:2006+A1:2010. The heating of the furnace followed the standard curve, as specified in EN 1363-1:2012. The target overpressure in the furnace was 15Pa at centre of lowest located joint (at 1.45 m height).</p>	Page 2 of 12
<b>SPECIFICATION OF TEST SPECIMENS</b>	<p><b>Sealant</b> Type: DOLPHIN – Fire Stop Silicone Sealant Nominal Density: 1.20+/-0.02g/cm<sup>3</sup></p> <p><b>Backing Materials</b> Type: Ceramic Wool Measured Density: 130kg/m<sup>3</sup> Type: Stone Wool Measured Density: 146kg/m<sup>3</sup> Type: Polyethylene Rod Nominal Density: 29.13 kg/m<sup>3</sup> for 15mm diameter</p>	Page 3 of 12



	<p>Nominal Density: 15.37 kg/m<sup>3</sup> for 25mm diameter Nominal Density: 32.28 kg/m<sup>3</sup> for 40mm diameter</p> <p>Type: Galvanised steel angle Thickness: 8 mm</p> <p>8 specimens were tested as follows:-</p> <table border="1"> <thead> <tr> <th></th> <th>Gap Width (mm)</th> <th>Joint Depth (mm)</th> <th>Orientation</th> <th>Supporting Construction</th> <th>Backing Material</th> <th>Sealant Depth (mm)</th> <th>Backing Depth (mm)</th> </tr> </thead> <tbody> <tr><td>1.</td><td>10</td><td>200</td><td>Vertical</td><td>AC-AC</td><td>CW</td><td>10</td><td>25</td></tr> <tr><td>2.</td><td>10</td><td>200</td><td>Vertical</td><td>AC-AC</td><td>SW</td><td>10</td><td>25</td></tr> <tr><td>3.</td><td>15</td><td>200</td><td>Vertical</td><td>AC-AC</td><td>SW</td><td>15</td><td>25</td></tr> <tr><td>4.</td><td>15</td><td>200</td><td>Vertical</td><td>AC-AC</td><td>PE</td><td>15</td><td>15</td></tr> <tr><td>5.</td><td>20</td><td>200</td><td>Vertical</td><td>Steel-Steel</td><td>Metal</td><td>20</td><td>-</td></tr> <tr><td>6.</td><td>30</td><td>200</td><td>Vertical</td><td>AC-AC</td><td>SW</td><td>30</td><td>25</td></tr> <tr><td>7.</td><td>25</td><td>200</td><td>Vertical</td><td>AC-AC</td><td>PE Rod</td><td>25</td><td>25</td></tr> <tr><td>8.</td><td>40</td><td>200</td><td>Vertical</td><td>AC-AC</td><td>PE Strip</td><td>40</td><td>40</td></tr> </tbody> </table> <p>AC: Aerated concrete, SW: Stone Wool, CW: Ceramic Wool, PE: Polyethylene Foam</p> <p>After installation the specimens were allowed to condition for 29 days.</p>		Gap Width (mm)	Joint Depth (mm)	Orientation	Supporting Construction	Backing Material	Sealant Depth (mm)	Backing Depth (mm)	1.	10	200	Vertical	AC-AC	CW	10	25	2.	10	200	Vertical	AC-AC	SW	10	25	3.	15	200	Vertical	AC-AC	SW	15	25	4.	15	200	Vertical	AC-AC	PE	15	15	5.	20	200	Vertical	Steel-Steel	Metal	20	-	6.	30	200	Vertical	AC-AC	SW	30	25	7.	25	200	Vertical	AC-AC	PE Rod	25	25	8.	40	200	Vertical	AC-AC	PE Strip	40	40	<p>Page 4 of 12</p>
	Gap Width (mm)	Joint Depth (mm)	Orientation	Supporting Construction	Backing Material	Sealant Depth (mm)	Backing Depth (mm)																																																																			
1.	10	200	Vertical	AC-AC	CW	10	25																																																																			
2.	10	200	Vertical	AC-AC	SW	10	25																																																																			
3.	15	200	Vertical	AC-AC	SW	15	25																																																																			
4.	15	200	Vertical	AC-AC	PE	15	15																																																																			
5.	20	200	Vertical	Steel-Steel	Metal	20	-																																																																			
6.	30	200	Vertical	AC-AC	SW	30	25																																																																			
7.	25	200	Vertical	AC-AC	PE Rod	25	25																																																																			
8.	40	200	Vertical	AC-AC	PE Strip	40	40																																																																			
<p><b>TEST RESULT</b> (SUCH AS PASSED CRITERIA ___/ COMPLIED TO ___/ DURATION ___/OBSERVATION ___/ETC)</p>	<p>Integrity all specimens 240 mins Insulation for each sample listed below:-</p> <ol style="list-style-type: none"> <li>240 mins</li> <li>240 mins</li> <li>240 mins</li> <li>145 mins</li> <li>36 mins</li> <li>229 mins</li> <li>167 mins</li> <li>240 mins</li> </ol>	<p>Page 6 of 12</p>																																																																								
<p><b>PRODUCT APPLICATION GUIDELINE (END USE)</b> (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>Orientation – Test orientation B was tested; vertical linear joints in a vertical test construction. The test results only apply to the same orientation.</p> <p>Any significant deviation with respect to size, constructional details, load stresses, edge or end conditions other than those allowed under the field of direct application in the relevant test method is not covered by the test report.</p>	<p>Page 6 of 12</p>																																																																								



### Laboratory and Certification body details

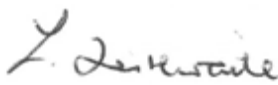


<b>NAME OF CERTIFICATION BODY</b>	IFC Certification	<b>NAME OF TEST FACILITY</b>	EFFECTIS ERA AVRASYA
<b>CERTIFICATION BODY ADDRESS / REGION</b> (STREET / TOWN / CITY / COUNTRY )	20 Park Street, Princes Risborough, Buckinghamshire. HP27 9AH, UK	<b>TEST FACILITY ADDRESS / REGION</b> (STREET / TOWN / CITY / COUNTRY )	TOSB TAYSAD Organize Sanayi Bölgesi 1.Cadde 15.Yol No:1 Sekerpınar-Çayırova Kocaeli Turkey
<b>WEBSITE</b>	www.ifccertification.com	<b>WEBSITE</b>	www.efectis.com
<b>TEL</b>	+44 (0)1844 275500	<b>TEL</b>	+90 262 658 16 62
<b>EMAIL</b>	info@ifccertification.com	<b>EMAIL</b>	onur.dag@efectis.com
<b>ACCREDITED BY</b> (NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE CERTIFICATION BODY, ALONG WITH WEBSITE)	UKAS (United Kingdom Accreditation Service)	<b>ACCREDITED BY</b> (NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE LABORATORY, ALONG WITH WEBSITE)	Turkak
<b>AS PER</b> (STANDARD TO WHICH THE CERTIFICATION BODY IS ACCREDITED TO)	ISO/IEC 17065	<b>AS PER</b> (STANDARD TO WHICH YOUR ORGANIZATION IS ACCREDITED TO)	ISO/IEC 17025
<b>VALIDITY</b> (EXPIRY DATE OF CERTIFICATION BODY ACCREDITATION)	N/A	<b>VALIDITY</b> (EXPIRY DATE OF LABORATORY ACCREDITATION)	12 <sup>th</sup> April 2021
<b>REFERENCE NUMBER:</b> (CERTIFICATION BODY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)	IFCC accreditation No. 0175	<b>REFERENCE NUMBER:</b> (THE LABORATORY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)	AB-0556-T
<b>CERTIFICATION MARK</b>			



(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER

NAME OF MANUFACTURER'S SIGNATORY		SIGNATURE	
EMAIL / TEL		FACTORY OFFICIAL SEAL	
<b>NOTES:</b> I Undertake that all data and information provided are genuine and accurate			

(ENDORSEMENT) TO BE SIGNED BY CERTIFICATION BODY

NAME OF CERTIFICATION BODY SIGNATORY	Ian Laithwaite  Reviewed by: Ian Woodhouse	SIGNATURE	 
EMAIL / TEL	ian.laithwaite@ifcgroup.com	CERTIFICATION BODY OFFICIAL SEAL	
<b>NOTES:</b> I Undertake that all data and information provided are genuine and accurate			

**ATTACHMENTS:**

COPY OF 'CERTIFICATE OF COMPLIANCE' ISSUED BY CERTIFICATION BODY (OLD OR NEW)