




Date : 2022-09-09

## CERTIFICATE OF COMPLIANCE

This Certificate of Compliance Validates the Following			
<b>TEST REPORT NUMBER</b> 'Assessment Reports' are not acceptable	R40146-20220524	<b>CERTIFICATE NUMBER</b>	XHLP.R40146
<b>DATE OF ISSUE</b>	20220524	<b>DATE OF ISSUE</b>	2022-09-05
<b>DATE OF EXPIRY</b>	Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service.	<b>DATE OF EXPIRY</b>	Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service.
Manufacturer Details			
<b>NAME OF FACTORY / MANUFACTURER</b>	SIGMA FACTORY FOR STEEL PRODUCTS	<b>NAME OF THE BRAND</b>	NEXUS
<b>FACTORY ADDRESS / REGION</b> (STREET / TOWN / CITY / COUNTRY )	SAIH SHUAIB 3, 4 R/A DUBAI INDUSTRIAL CITY OPPOSITE DEWA SUBSTATION DUBAI UNITED ARAB EMIRATES	<b>MODEL / NO</b>	MECHANICAL JOINT ASSEMBLIES / NFB  See details on Page 7
<b>WEBSITE</b>	<a href="http://www.nexus-ikk.com">www.nexus-ikk.com</a>	<b>LOGO ON THE PRODUCT</b>	
<b>TEL</b>	+97148181919	<b>EMAIL</b>	<a href="mailto:sfsp.uae@ikkgroup.com">sfsp.uae@ikkgroup.com</a>



<b>Product Details From Test Report</b>		<b>Reference Test Report page NO</b>
<p><b>DESCRIPTION OF THE PRODUCT</b> (TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/SENSITIVITY ETC)</p>	<p>Mechanical Joint Assemblies</p> <p>This category covers mechanical joint assemblies, which are proprietary products installed at the job site in accordance with the application instructions provided with the product and with the instructions specified in the individual joint system.</p>	<p>R40146-20220524</p>
<p><b>TEST STANDARD</b> (SUCH AS ASTM/BS EN/ DN ETC)</p>	<p><a href="#">ANSI/UL 2079</a>, "Tests for Fire Resistance of Building Joint Systems."</p> <p>Scope:</p> <p>1.1 These tests are applicable to joint systems of various materials and construction that are intended for use in linear openings between adjacent fire resistive structures.</p> <p>1.2 The fire endurance ratings for joint systems are intended to register performance during the period of fire exposure and are not intended to be interpreted as having determined the acceptability of the joint systems for use before or after fire exposure. The intent of these methods is to develop data to assist others in determining the suitability of the joint systems where fire resistance is required.</p> <p>1.3 These requirements are intended to evaluate the length of time that the types of joint systems specified in 1.1 will contain a fire during a predetermined test exposure. The test evaluates the joint system's resistance to heat and, in some instances, to a hose stream, while carrying an applied load if the assembly is load bearing. The method of testing also includes optional air leakage tests to determine the rate of air leakage through joint systems resulting from a specified air pressure difference applied across the surface of the joint systems.</p> <p>1.4 Under these requirements a joint system is subjected to a standard fire exposure controlled to achieve specified temperatures throughout a specified time period. This exposure by itself is not intended to be representative of all fire conditions; conditions vary with changes in the amount, nature and distribution of fire loading, ventilation, compartment size</p>	<p>R40146-20220524</p>



and configuration, and heat sink characteristics of the compartment.

1.5 All joint systems are cycled through their intended range of movement prior to fire exposure to demonstrate the joint system's range of movement and the impact of the joint system during movement on the adjacent fire resistive structures. Joint systems are required to be loaded to their designed live load capacity during the fire test. For tests of wall-to-wall and head-of-wall joint systems, the fire test is followed by the application of a specified standard hose stream.

1.6 These requirements cover the measurement of the transmission through the joint system of heat and gases sufficiently hot to ignite cotton waste.

1.7 These requirements provide a relative measure of fire performance of comparable assemblies under these specified fire exposure conditions. Any variation from the construction or conditions that are tested, such as method of assembly and materials, is not within the scope of this test method.

1.8 Tests for evaluating the suitability of poured or formed-in-place materials for use in joint systems under non-fire conditions are found in the Standard Test Method for Adhesion and Cohesion of Elastomeric Joint Sealants Under Cyclic Movement (Hockman Cycle), ASTM C719.

1.9 Tests for evaluating the suitability of joint systems other than those with poured or formed-in-place materials under non-fire conditions are found in the Standard Test Method for Cyclic Movement and Measuring the Minimum and Maximum Joint Widths of Architectural Joint Systems, ASTM E1399/E1399M.

1.10 Tests for determining the hourly fire endurance ratings of walls and floors are found in the Standard for Fire Tests of Building Construction and Materials, UL 263. Standard UL 263 shall be permitted to be used to determine the hourly fire endurance rating of walls and floors with control joints.

1.11 Tests for determining the surface burning characteristics of building materials, based on the rate of flame spread, are found in the Standard for Test for Surface Burning Characteristics of Building Materials, UL 723.



	<p>1.12 The results of these tests represent one factor in assessing fire performance of joint systems. These requirements prescribe a standard fire exposure for comparing the performance of joint systems. Application of these test results to predict the performance of actual building construction requires careful evaluation of test data.</p> <p>1.13 The method of testing also includes optional air leakage tests to determine the rate of air leakage through fire resistive joint systems resulting from a specified air pressure difference applied across the surface of the systems. The results obtained from the optional air leakage tests are expressed in cubic feet per minute (cubic meter per second) per lineal foot (lineal meter) of opening. The results are intended to develop data to assist authorities having jurisdiction, and others, in determining the acceptability of joint systems with reference to the control of air movement through the assembly.</p> <p>1.14 The method of testing also includes optional water leakage tests to determine the ability of fire resistive joint systems to resist the passage of water under a three foot pressure head. This method does not evaluate the ability of uncured joint systems to resist such exposure.</p> <p>1.15 An L rating may also be established for a fire resistive joint system. The L rating is based on the amount of air leakage through the test sample.</p> <p>1.16 A W rating may also be established for a fire resistive joint system. The W rating is based on the water resistance of the sample.</p>													
<p><b>TEST DESCRIPTION</b></p>	<p>The following tests from the referenced standard(s), as applicable to the products submitted, were conducted:</p> <table border="1" data-bbox="509 1503 1284 1709"> <thead> <tr> <th>Standard</th> <th>Test</th> <th>Standard Section</th> </tr> </thead> <tbody> <tr> <td>UL 2079</td> <td>Fire Endurance</td> <td>17</td> </tr> <tr> <td>UL 2079</td> <td>Hose Stream</td> <td>19</td> </tr> <tr> <td>UL 2079</td> <td>Environmental Exposure Tests for Intumescent Material</td> <td>28</td> </tr> </tbody> </table> <p>The results of this investigation including evaluation and testing indicate that the products are complied with the applicable requirements of the Standard ANSI/UL 279 - "Standard for Tests for Fire Resistance of Building Joint Systems for Fire-Protection</p>	Standard	Test	Standard Section	UL 2079	Fire Endurance	17	UL 2079	Hose Stream	19	UL 2079	Environmental Exposure Tests for Intumescent Material	28	<p>R40146-20220524</p>
Standard	Test	Standard Section												
UL 2079	Fire Endurance	17												
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UL 2079	Environmental Exposure Tests for Intumescent Material	28												



	Service” and therefore, such products are judged eligible to bear UL's Mark.	
<b>SPECIFICATION OF TEST SPECIMEN</b>	The samples used for testing and evaluation were considered representative of the submitted products.	R40146-20220524
<b>TEST RESULT</b> (SUCH AS PASSED CRITERIA___/ COMPLIED TO___/ DURATION___/OBSERVATION___/ETC)	Pass – Only those products bearing the UL Mark should be considered to be Certified and covered under UL’s Follow-Up Service.	R40146-20220524
<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.	This category covers mechanical joint assemblies, which are proprietary products installed at the job site in accordance with the application instructions provided with the product and with the instructions specified in the individual joint system.  Properties of the mechanical joint assemblies other than the capacity to provide a degree of fire resistance to openings provided in fire-resistive walls or floors have not been investigated.  Authorities Having Jurisdiction should be consulted before installation.	R40146-20220524



Laboratory and Certification Body Details			
<b>NAME OF CERTIFICATION BODY</b>	UL LLC	<b>NAME OF TEST FACILITY</b>	UL LLC Facility
<b>CERTIFICATION BODY ADDRESS / REGION</b> <small>(STREET / TOWN / CITY / COUNTRY )</small>	333 Pfingsten Road, Northbrook, IL, USA	<b>TEST FACILITY ADDRESS / REGION</b> <small>(STREET / TOWN / CITY / COUNTRY )</small>	WTDP: 1) Thomas Bell-Wright International Consultants  333 Pfingsten Road, Northbrook, IL, USA  WTDP: 1) Corner of 46th and 47th Streets, Jebel Ali Industrial Area 1, Dubai, UAE
<b>WEBSITE</b>	<a href="http://www.ul.com">www.ul.com</a>	<b>WEBSITE</b>	<a href="http://www.ul.com">www.ul.com</a>
<b>TEL</b>	+1-877-854-3577	<b>TEL</b>	+1-877-854-3577
<b>EMAIL</b>	<a href="mailto:FireandSecurity@ul.com">FireandSecurity@ul.com</a>	<b>EMAIL</b>	<a href="mailto:FireandSecurity@ul.com">FireandSecurity@ul.com</a>
<b>ACCREDITED BY</b> <small>(NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE CERTIFICATION BODY, ALONG WITH WEBSITE)</small>	American National Standards Institute (ANSI) as a product certification body <a href="http://ansi.org">ansi.org</a>	<b>ACCREDITED BY</b> <small>(NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE LABORATORY, ALONG WITH WEBSITE)</small>	International Accreditation Services (IAS) <a href="http://iasonline.org">iasonline.org</a>
<b>AS PER</b> <small>(STANDARD TO WHICH THE CERTIFICATION BODY IS ACCREDITED TO)</small>	ISO/IEC 17065	<b>AS PER</b> <small>(STANDARD TO WHICH YOUR ORGANIZATION IS ACCREDITED TO)</small>	ISO/IEC 17025
<b>VALIDITY</b> <small>(EXPIRY DATE OF CERTIFICATION BODY ACCREDITATION)</small>	Active as of date of issuance of this certificate	<b>VALIDITY</b> <small>(EXPIRY DATE OF LABORATORY ACCREDITATION)</small>	Active as of date of issuance of this certificate
<b>REFERENCE NUMBER:</b> <small>(CERTIFICATION BODY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)</small>	Accreditation ID #0198	<b>REFERENCE NUMBER:</b> <small>(THE LABORATORY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)</small>	Accreditation ID# TL- 157
<b>CERTIFICATION MARK</b>			



(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER			
NAME OF MANUFACTURER'S SIGNATORY	Sahil Hasmi	SIGNATURE	
EMAIL / TEL	Sahil.Hasmi@ikkgroun.com / +97148181919	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	Jim Smyser	SIGNATURE	
EMAIL / TEL	<a href="mailto:James.p.smyser@ul.com">James.p.smyser@ul.com</a> / 847-664-1518	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)

Sigma Factory for Steel Products  
Saih Shuaib 3, 4 R/A Dubai Industrial City  
Opposite DEWA Substation  
Dubai, United Arab Emirates

R40146

NFB-2FF for use in Joint System No. [FF-D-0160](#)

NFB-4FF, NFB-6FF for use in Joint System No. [FF-D-1222](#)

NFB-8FF, NFB-10FF and NFB-12FF for use in Joint System No. [FF-D-2027](#)

NFB-14FF for use in Joint System No. [FF-D-3020](#)

Tradename and/or Trademark: **NEXUS**