

<b>Central Data Bank</b> <b>List of Building Materials</b>
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**A. General**

Department:	Buildings
Type of building material:	Structural sealants
Applications:	For glazing and curtain wall works

**B. Acceptance criteria****Testing standards:**

Testing of structural sealants should be in accordance with BS 3712 or other equivalent standards. For tensile and shear, the allowable stresses should normally have a factor of safety in the range of 5 to 6. Structural sealants shall have good adhesion performance.

**Conditions of Acceptance:**

- Installation of a structural sealant shall be strictly in accordance with the manufacturer's specifications/ recommendations. A certificate/statement issued by the manufacturer/supplier and endorsed by the AP/RSE shall be submitted to confirm that the proposed structural sealant is compatible with the concerned glazing and structural frame system.
- Fire performance of a structural sealant shall be monitored together with a glazing or curtain wall system in accordance with BS 476: Part 20: 1987.

## Reference List of Structural Sealants

Ref. No.	Product Name	Name of Manufacturer	Product Category	Application	Compliance Testing Standard	Details of Test or Assessment Report				Date of Posting on CDB	Remarks / Comments
						Name of Laboratory Accreditation Body	Name of Laboratory / Assessing Organization	Report No.	Date of Test / Assessment Report		
BD-SS 001	Dow Corning (R) Structural Silicone Sealant Types 781, 795, 983 & 999A	Dow Corning Corporation	Structural silicone sealants	Structural silicone sealants for structural glazing and curtain wall construction.	ASTM	NVLAP	DL Laboratories, NY, USA	N/A* * Test report could not be retrieved.	N/A	18/01/2005	<p>No-objection letter issued in 1991.</p> <p>Prior to commencement of the glazing/curtain wall installation, a certificate by the manufacturer confirming that the sealant is compatible with the proposed glazing system/structural frame should be submitted by AP/RSE for consideration.</p> <p>Allowable sealant design strength is limited to 138kPa maximum.</p> <p>When the sealants are applied to curtain walls, a safety test in accordance with PNAP 106 will be required prior to the commencement of the curtain wall work.</p>

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BD-SS 002	Dow Corning 995 Silicone Structural Adhesive	Dow Corning Corporation	Silicone structural adhesive	Silicone structural adhesive for structural glazing and curtain wall construction.	ASTM C1135 ASTM C920	NVLAP	DL Laboratories, NY USA	DL-8528D	17/05/1991	18/01/2005	<p>No-objection letter issued in 1993.</p> <p>Prior to commencement of the glazing/curtain wall installation, a certificate by the manufacturer confirming that the adhesive is compatible with the proposed glazing system/structural frame should be submitted by AP/RSE for consideration.</p> <p>Allowable tensile and shear stress of the adhesive are both limited to 138kPa maximum.</p> <p>When the adhesive is applied to curtain wall, a safety test in accordance with PNAP 106 will be required prior to the commencement of the curtain wall work.</p>
								DL-8528A	17/05/1991		

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						Name of Laboratory Accreditation Body	Name of Laboratory / Assessing Organization	Report No.	Date of Test / Assessment Report		
BD-SS 003	Tremco Proglaze, Tremco Proglaze II, Tremco Spectrem 2 Structural Silicone Sealant	Tremco Inc.	Structural silicone sealant	Structural silicone sealant for structural glazing and curtain wall construction.	ASTM	NVLAP	DL Laboratories, NY, USA	DL-8611	17/05/1991	18/01/2005	<p>No-objection letter issued in 1991.</p> <p>Prior to commencement of the glazing/curtain wall installation, a certificate by the manufacturer confirming that the sealant is compatible with the proposed glazing system/structural frame should be submitted by AP/RSE for consideration.</p> <p>Allowable sealant design strength is limited to 138kPa maximum.</p> <p>When the sealants are applied to curtain walls, a safety test in accordance with PNAP 106 will be required prior to the commencement of the curtain wall work.</p>
								DL-8611B	21/06/1991		
								DL-8611A	25/05/1991		

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Ref. No.	Product Name	Name of Manufacturer	Product Category	Application	Compliance Testing Standard	Details of Test or Assessment Report				Date of Posting on CDB	Remarks / Comments
						Name of Laboratory Accreditation Body	Name of Laboratory / Assessing Organization	Report No.	Date of Test / Assessment Report		
BD-SS 004	GE Ultraglaze SSG 4000 Silicone Structural Sealant	General Electric Company	Silicone structural sealant	Silicone structural sealant for structural glazing and curtain wall construction.	ASTM C920  As stated in the test report.	N/A	United States Testing Company, Inc. California Division.	176336	14/06/1989	18/01/2005	<p>No-objection letter issued in 1992.</p> <p>Prior to commencement of the glazing/curtain wall installation, a certificate by the manufacturer confirming that the sealant is compatible with the proposed glazing system/structural frame should be submitted by AP/RSE for consideration.</p> <p>Allowable tensile and shear stress of the sealant are both limited to 138kPa maximum.</p> <p>When the sealant is applied to curtain wall, a safety test in accordance with PNAP 106 will be required prior to the commencement of the curtain wall work.</p>
							Centre Experimental De Recherches Et D'Etudes Du Batiment Et Des Travaux Publics (CEBTP), French	582.6.916.1	16/06/1987		

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Ref. No.	Product Name	Name of Manufacturer	Product Category	Application	Compliance Testing Standard	Details of Test or Assessment Report				Date of Posting on CDB	Remarks / Comments
						Name of Laboratory Accreditation Body	Name of Laboratory / Assessing Organization	Report No.	Date of Test / Assessment Report		
BD-SS 005	GE UltraGlaze SSG 4400 Silicone Structural Sealant	GE Toshiba Silicones Co., Ltd.	Two-component silicone structural sealant	Silicone structural sealant for structural glazing and curtain wall construction.	ASTM C920	NVLAP	DL Laboratories, NY USA	DL-13688A	05/01/2003	26/10/2005	<p>Prior to commencement of the glazing/curtain wall installation, a certificate by the manufacturer confirming that the sealant is compatible with the proposed glazing system/structural frame should be submitted by AP/RSE for consideration.</p> <p>Allowable tensile stress of the sealant should be limited to 138kPa maximum.</p> <p>When the sealant is applied to curtain wall, a safety test in accordance with PNAP 106 will be required prior to the commencement of the curtain wall work.</p>
					ASTM C1135	NVLAP	DL Laboratories, NY USA	DL-13745B	30/01/2003		

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						Name of Laboratory Accreditation Body	Name of Laboratory / Assessing Organization	Report No.	Date of Test / Assessment Report		
BD-SS 006	GE Construction SCS 1201 Silicone Sealant	GE Advanced Materials, Silicones	One part silicone sealant	Silicone structural sealant for structural glazing construction.	ASTM C920	NVLAP	DL Laboratories, NY USA	DL-13688B	05/01/2003	21/07/2006	<p>Prior to commencement of the glazing/curtain wall installation, a certificate by the manufacturer confirming that the sealant is compatible with the proposed glazing system/structural frame should be submitted by AP/RSE for consideration.</p> <p>Allowable tensile stress of the sealant should be limited to 138kPa maximum.</p> <p>When the sealant is applied to curtain wall, a safety test in accordance with PNAP 106 will be required prior to the commencement of the curtain wall work.</p>
					ASTM C1135	NVLAP	DL Laboratories, NY USA	DL-13745A	30/01/2003		
BD-SS 007	GE Ultraglaze SSG4800J	Momentive Performance Materials	One part Silicone Sealant	Silicone structural sealant for structural glazing construction.	ASTM C920	NVLAP	DL Laboratories, NY USA	DL-14082	12/05/2004	18/10/2007	Ditto
					ASTM C1184	NVLAP	DL Laboratories, NY USA	DL-14440A	29/11/2005		