

Central Data Bank List of Building Materials

A. General

Department:	Buildings
Type of building material:	Fire protection materials for structural use
Applications:	For protection of structural elements to resist the action of fire for the specified periods

B. Acceptance criteria**Testing standards:**

Fire test/assessment should be carried out in accordance with BS 476: Parts 20 to 24: 1987.

Conditions of Acceptance:

- To satisfy section 6.5 of the Code of Practice for Fire Resisting Construction 1996, valid and full fire test/assessment report shall be submitted to demonstrate that the concerned product or material has been tested in accordance with or assessed against BS 476: Parts 20 to 24: 1987 by a laboratory accredited under HOKLAS or recognized under mutual recognition agreements/arrangements with HOKLAS, or one of the assessing organizations listed in PNAP 251.
- Details of application such as surface preparation, application of primer, top coating etc, shall be strictly in accordance with the manufacturer's specifications/recommendations and are compatible with those adopted in the fire tests.

Reference List of Fire Protection Materials for Structural Use

Ref. No.	Product Name	Name of Manufacturer and Place of Manufacture (City and Country)	Material 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	Validity Date		
BD-FP 089	Phoenix 168	Phoenix Fire Protection (Asia) Ltd. Mannheim, Germany	Intumescent coating (water based)	Protection of 3-side and 4-side exposed I beam sections up to 1 hr. FRP.	BS 476: Parts 20 & 21: 1987	UKAS	Bodycote Warringtonfire	WF No. 160031 WF No. 160032	1 December 2006 1 December 2006	valid until 1 December 2011	22/7/2008	This is resulted from the expiry of BD-FP 065 It should be read in conjunction with fire assessment report WFR No. C126964 and C126965
BD-FP 090	Phoenix 270-120	Phoenix Fire Protection (Asia) Ltd. Wigan, UK	Intumescent coating (water based)	Protection of 4-side exposed hollow column sections up to 2 hrs. FRP.	BS 476: Parts 20 & 21: 1987	UKAS	Bodycote Warringtonfire	WF No. 174358	19 June 2008	valid until 1 August 2010	22/7/2008	It should be read in conjunction with fire assessment report Wf No. 156367 (expired on 1.8.2008)
BD-FP 091	Phoenix 270-120	Phoenix Fire Protection (Asia) Ltd. Wigan, UK	Intumescent coating (water based)	Protection of high strength steel rod (MacAlloy Bars) up to 2 hrs. FRP.	BS 476: Parts 20 & 21: 1987	UKAS	Bodycote Warringtonfire	WF No. 167802	16 October 2007	valid until 1 November 2009	22/7/2008	It should be read in conjunction with fire assessment report Wf No. 156367 (expired on 1.8.2008) Limiting temperature for tension rod shall be evaluated based on the tensile force of the member under consideration.
BD-FP 092	Phoenix 270-120	Phoenix Fire Protection (Asia) Ltd. Wigan, UK	Intumescent coating (water based)	Protection of 4-side exposed I-beam sections up to 2 hrs FRP.	BS 476: Parts 20 & 21: 1987	UKAS	Bodycote Warringtonfire	WF No. 174358	19 June 2008	valid until 1 August 2010	22/10/2008	It should be read in conjunction with fire assessment report Wf No. 156367 (expired on 1.8.2008)
BD-FP 093	Tanda AP25	Warwick Building Material Ltd Guangzhou, China	Single component, factory blended cementitious spray or trowel applied coating	Protection of 3-side exposed hollow beam section, 4-side column section and steel angle section up to 2 hrs FRP.	BS 476: Parts 20 & 21: 1987	HOKLAS	Rearch Engineering Façade Consultants Limited	R08C06	9 April 2008	valid until 8 April 2013	22/10/2008	

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BD-FP 099	Promatect H	Eternit Guangzhou Co. Ltd Guangzhou, China	Fibre-reinforced calcium silicate insulating board.	Protection of steel beams and columns up to 2 hrs. FRP.	BS 476: Parts 20 & 21: 1987	Recognized by PNAP 251	Building Research Establishment	CC84975 Review 5	9 January 2007	9 January 2012	23/1/2009	This is resulted from the expiry of BD-FP 029 The relationship between protection thickness, section factor, and fire resistance period of structural steel shall refer to Table 3 of report CC84975 Review 5
BD-FP 100	Monokote Type Z-146	Grace Korea Inc Inchon, Korea	Sprayed-applied cementitious fire protection material.	Protection of 3-side exposed or 4-sides exposed I-section beams and columns for FRP up to 1 hr. Protection of 4-side exposed hollow section beams and column for FRP up to 1 hr.	BS 476: Parts 20 & 21: 1987	UKAS	Warrington Fire Research Centre	WFRC Report No. 145418	8 March 2005	1 April 2010	23/1/2009	It should be read in conjunction with fire assessment report WFRC No C81831 for I-section and C109505 for hollow section.
BD-FP 101	Vermitek AF	L&A Fazzini Manufacturing Pty Ltd. Greenacre NSW, Australia	Gypsum-vermiculite coating	Protection of steel I-sections, hollow section and angle section up to 1 hr. FRP.	AS 1530.4 and BS 476: Part 21	NATA	CSIRO	FCO-1299	1 July 2007	31 July 2012	30/4/2009	According to the manufacturer's recommendation, Vermitek AF is for internal application.
BD-FP 102	Tanda AP25	Warwick Building Material Ltd Guangzhou, China	Single component, factory blended cementitious spray or trowel applied coating	Protection of 3-side and 4-side exposed I-section up to 4 hrs FRP.	BS 476: Parts 20 & 21: 1987	HOKLAS	Rearch Engineering Development Façade Consultants Limited	R08C06	9 April 2008	8 April 2013	30/4/2009	