

Central Data Bank List of Building Materials

A. General

Department:	Buildings
Type of building material:	Mechanical Couplers
Applications:	For reinforcement splicing

B. Acceptance criteria**Testing standards:**

Testing of mechanical couplers used for tension splices should be in accordance with section 3.12.8.16.2 of BS 8110: Part 1: 1985 or other equivalent standards.

Conditions of Acceptance:

- Testing of mechanical couplers by accredited laboratories shall be in accordance with PNAP 251.
- Installation of mechanical couplers shall be strictly in accordance with the manufacturer's specifications/ recommendations.

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Ref. No.	Product Name	Name of Manufacturer and Place of Manufacture (City and Country)	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-RS 001	Ancon (MBT) ET Series Couplers	Ancon Clark Ltd. (See remarks)	Steel sleeve associated with lockshear bolts.	Tension or compression splices for deformed high yield steel bars in compliance with BS 4449: 1988 with characteristic strength of 460MPa and diameters of 10, 12, 16, 20, 25, 32 & 40mm.	BS 8110: Part 1: 1985	NAMAS	MTS Testwell Ltd.	MAT/2770	May 1995	18/01/2005	No-objection letter issued in 1996. Updated information on place of manufacture to be provided by the manufacturer.

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BD-RS 002	Bartec Weldable Screwed Couplers	French Asiatic Services and Techniques Co., Ltd. (See remarks)	Weldable screwed couplers for enlarged reinforcement bars.	Splices for deformed high yield steel bars in compliance with BS 4449: 1988 with characteristic strength of 460MPa and diameters of 16, 20, 25, 32, 40 & 50mm.	BS 8110: Part 1: 1985	N/A	MateriaLab Limited	920469ME60619	May 1996	18/01/2005	<p>No-objection letter issued in 1996.</p> <p>Updated information on place of manufacture to be provided by the manufacturer.</p> <p>The works shall be carried out by trained technical staff from the manufacturer's company.</p> <p>Welding details between the couplers and the structural steel members shall be further considered on a job basis, and the welding shall be carried out by a suitably qualified welder.</p> <p>All welds are to be inspected and tested by non-destructive testing.</p> <p>In-situ proof test on the welded connection may be required on a job basis.</p>

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BD-RS 003	CCL Taper Thread Splicing System	CCL Systems Limited (See remarks)	Screwed couplers for taper threaded end reinforcement bars.	Splices for deformed high yield steel bars in compliance with BS 4449: 1978 having diameters of 16, 20, 25, 32, 40 & 50mm.	BS 8110: Part 1: 1985	N/A	Hong Kong Polytechnic University of Leeds	N/A N/A	11.86 & 12.86 October 1985	18/01/2005	No-objection letter issued in 1987. Updated information on place of manufacture to be provided by the manufacturer. The works shall be carried out by trained technical staff from the manufacturer's company.
BD-RS 004	McCalls Rebar Couplers Type FT UN1	McCalls Special Products (See remarks)	Screwed couplers for threaded end reinforcement bars.	Splices for deformed high yield steel bars in compliance with BS 4449: 1978 having diameters of 25, 32, 40 & 50mm.	BS 8110: Part 1: 1985	N/A	University of Hong Kong Engineering Materials Research & Laboratories Ltd. Engineering Materials Research & Laboratories Ltd. Engineering Materials Research & Laboratories Ltd. Hong Kong Polytechnic	C-MIS-328 MTL/SR1316/87/MGW MTL/M0071/87 MTL/M0420/87 N/A	December 1986 February 1987 April 1987 August 1987 October 1989	18/01/2005	No-objection letters issued in 1987 and 1989. Updated information on place of manufacture to be provided by the manufacturer. The works shall be carried out by trained technical staff from the manufacturer's company.

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BD-RS 005	Erico Speed-Sleeve	Erico Australia Pty. Limited. (See remarks)	End-bearing compression splices.	Splices for deformed bars subject to compression only.	N/A	N/A	N/A	N/A*	N/A	18/01/2005	<p>No-objection letter issued in 1978.</p> <p>Updated information on place of manufacture to be provided by the manufacturer.</p> <p>Contact ends of the bars shall be square cut and shall be placed concentrically with a maximum tolerance of 3° at seating.</p> <p>No more than half of the total number of bars in each column shall be spliced at any cross-section with the splice group symmetrically disposed and that adjacent bars shall not be spliced at the same cross-section.</p> <p>The vertical distance between subsequent splice groups shall not be less than a tension lap of the largest diameter of the bars in any cross-section where splices are used.</p>

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BD-RS 006	Lenton Rebar Splice System Type A2	Cadweld (Asia) Ltd. / Erico – Cadweld (Asia) Ltd. (See remarks)	Screwed couplers for taper threaded end reinforcement bars.	Splices for deformed high yield steel bars in compliance with BS 4449: 1978 having diameters of 16, 20, 25, 32, 40 & 50mm.	BS 8110: Part 1: 1985	N/A	Engineering Material Research & Laboratories Ltd. Hong Kong Polytechnic	M/0054/87 N/A	April 1987 September 1988	18/01/2005	No-objection letters issued in 1987 and 1988. Updated information on place of manufacture to be provided by the manufacturer. The works shall be carried out by trained technical staff from the manufacturer's company.
BD-RS 007	Lenton Rebar Splice System Type C2	Erico – Cadweld (Asia) Ltd. (See remarks)	Screwed couplers for taper threaded end reinforcement bars.	Splices for deformed high yield steel bars in compliance with BS 4449: 1978 having diameters of 16, 20, 25, 32 & 40mm.	BS 8110: Part 1: 1985	N/A	Engineering Materials Research & Laboratories Ltd.	M/0857/(1)/87	December 1987	18/01/2005	No-objection letter issued in 1988. Updated information on place of manufacture to be provided by the manufacturer. The works shall be carried out by trained technical staff from the manufacturer's company.
BD-RS 008	Lenton Rebar Splice System Type C2	Erico – Cadweld (Asia) Ltd. (See remarks)	Mechanical couplers for tension splices of reinforcement bars.	Splices for deformed high yield steel bars in compliance with BS 4449: 1978 with characteristic strength of 425MPa and diameter of 50mm.	BS 8110: Part 1: 1985	N/A	Hong Kong Polytechnic	5/92/SHP/SKY	February 1992	18/01/2005	No-objection letter issued in 1992. Updated information on place of manufacture to be provided by the manufacturer.

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BD-RS 009	Lenton Rebar Splice System Type P4	Erico – Cadweld (Asia) Ltd. (See remarks)	Screwed couplers for taper threaded end reinforcement bars.	Splices for deformed high yield steel bars in compliance with BS 4449: 1978 having diameters of 16, 20, 25, 32 & 40mm.	BS 8110 Part 1: 1985	N/A	Hong Kong Polytechnic	N/A	September 1987	18/01/2005	No-objection letter issued in 1988. Updated information on place of manufacture to be provided by the manufacturer. The works shall be carried out by trained technical staff from the manufacturer's company.
BD-RS 010	Lenton Rebar Splice System Type P4	Erico – Cadweld (Asia) Ltd. (See remarks)	Mechanical couplers for tension splices of reinforcement bars.	Splices for deformed high yield steel bars in compliance with BS 4449: 1978 with characteristic strength of 425MPa and diameter of 50mm.	BS 8110: Part 1: 1985	N/A	Hong Kong Polytechnic	4/92/SHP/SKY	February 1992	18/01/2005	No-objection letter issued in 1992. Updated information on place of manufacture to be provided by the manufacturer.
BD-RS 011	Lenton R1 Type Transition Couplers	Erico B.V. Tilburg, Netherlands	Screwed couplers for taper threaded end reinforcement bars.	Mechanical transition couplers for tension splicing of deformed high yield steel bars in compliance with BS 4449: 1978 with characteristic strength of 425MPa and diameters of 50/40, 40/32, 32/25, 25/20 & 20/16mm.	BS 8110: Part 1: 1985	HOKLAS	MateriaLab Limited.	920709m20358	June 1992	18/01/2005	No-objection letter issued in 1992.

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BD-RS 012	Techniport Screwed Couplers	Societe Techniport. (See remarks)	Screwed couplers for enlarged and threaded end reinforcement bars.	Splices for deformed high yield steel bars in compliance with BS 4449: 1978 having diameters of 16, 20, 25, 32, 40 & 50mm.	BS 8110: Part 1: 1985	N/A	Engineering Materials Research & Laboratories Ltd. Engineering Materials Research & Laboratories Ltd. Engineering Materials Research & Laboratories Ltd. Engineering Materials Research & Laboratories Ltd. Engineering Materials Research & Laboratories Ltd. Hong Kong Polytechnic	MTL/M/0197/87 MTL/M/0331/87 MTL/M/0398/87 MTL/M/0541/87 N/A	May 1987 July 1987 July 1987 September 1987 June 1989	18/01/2005	No-objection letters issued in 1987 and 1989. Updated information on place of manufacture to be provided by the manufacturer. The works shall be carried out by trained technical staff from the manufacturer's company.
BD-RS 013	Techniport Screwed Couplers	French Asiatic Services and Techniques Co., Ltd. (See remarks)	Screwed couplers for enlarged and threaded end reinforcement bars.	Splices for deformed high yield steel bars in compliance with BS 4449: 1988 having a diameter of 12mm.	BS 8110: Part 1: 1985	HOKLAS	MateriaLab Limited	920469ME60541	May 1996	18/01/2005	No-objection letter issued in 1996. Updated information on place of manufacture to be provided by the manufacturer. The works shall be carried out by trained technical staff from the manufacturer's company.

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BD-RS 014	VSL/Eberspacher Types PM and Reli Reinforcement Bar Splice	Eberspacher GmbH. (See remarks)	Reinforcement splices formed by pressing a steel sleeve onto the reinforcing bars using a hand held press head.	Splices for deformed high yield steel bars in compliance with BS 4449: 1978 having diameters of 16, 20, 25, 32 & 40mm.	Tensile tests on coupled bar and reinforcement bar samples.	N/A	PWD Materials Testing Laboratory Hong Kong.	007280 & 007281	January 1983	18/01/2005	<p>No-objection letter issued in 1983.</p> <p>Updated information on place of manufacture to be provided by the manufacturer.</p> <p>The work shall be carried out by trained personnel from the manufacturer's company.</p> <p>No more than half of the total number of bars shall be spliced at any cross-section with the splice group symmetrically disposed and that adjacent bars shall not be spliced at the same cross-section.</p> <p>The distance between subsequent splice groups shall not be less than a tension lap of the largest diameter of the bars in any cross-section where splices are used.</p>

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BD-RS 015	EPCO EM40A	VSC Steel Company Limited Taoyuan, Taiwan	Mechanical couplers for splicing reinforcement bars	Splices for grade 460 high yield deformed bars in compliance with CS2: 1995 of diameter of 40mm for superstructure works.	BS 8110: Part 1: 1985 clause 3.12.8.16.2 Compression test for coupled rebars based on in-house method	HOKLAS N/A	Castco Testing Centre Ltd. Castco Testing Centre Ltd.	ST230721-5083 ST240705-1775 ST250513-1333	22 July 2003 9 July 2004 15 June 2005	03/08/2005	
BD-RS 016	鋼筋等強度直螺紋接頭	三一重工股份有限公司 上海，中國	Mechanical couplers for splicing reinforcement bars	Splices for grade 460 high yield deformed bars in compliance with CS2: 1995 of diameter of 40mm for superstructure works.	BS 8110: Part 1: 1985 clause 3.12.8.16.2	HOKLAS	Geotechnics & Concrete Engineering (H.K.) Ltd.	STL050401484 STL050401515 STL050401523	16 April 2005 16 April 2005 16 April 2005	03/08/2005	For compression joints, the requirements stated in clause 3.12.8.16.1 of BS 8110: Part 1: 1985 should be complied with.
BD-RS 017	EPCO EA2-50	VSC Steel Company Limited Taoyuan, Taiwan	Mechanical couplers for splicing reinforcement bars	Splices for grade 460 high yield deformed bars in compliance with CS2: 1995 of diameter of 50mm for minipile works.	BS 8110: Part 1: 1985 clause 3.12.8.16.2 Compression test for coupled rebars based on in-house method	HOKLAS N/A	Castco Testing Centre Ltd. Goodvale Laboratory & Research Ltd.	ST230828-5968 SP050705-01	4 September 2003 6 July 2005	03/08/2005	

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BD-RS 018	EPCO EM50A	VSC Steel Company Limited Taoyuan, Taiwan	Mechanical couplers for splicing reinforcement bars	Splices for grade 460 high yield deformed bars in compliance with CS2: 1995 of diameter of 50mm for minipile works.	BS 8110: Part 1: 1985 clause 3.12.8.16.2 Compression test for coupled rebars based on in-house method	HOKLAS N/A	Castco Testing Centre Ltd. Goodvale Laboratory & Research Ltd.	ST240106-0023 ST230721-5083 SP040316-01	7 January 2004 22 July 2003 18 March 2004	26/10/2005	
BD-RS 019	SanLi Type GR Parallel Thread Coupler (SLGR32R0508)	SanLi Development Company Limited Guangdong, China	Mechanical couplers for splicing reinforcement bars	Splices for grade 460 high yield deformed bars in compliance with CS2: 1995 of diameter of 32mm for soil nail works.	BS 8110: Part 1 clause 3.12.8.16.2	HOKLAS	Castco Testing Centre Ltd.	ST251025-3055	18 March 2006	21/04/2006	
BD-RS 020	Lenton Position Coupler P14	Jiun Tzann Industrial Co., Ltd. Taipei, Taiwan	Mechanical couplers for splicing reinforcement bars	Splices for grade 460 high yield deformed bars in compliance with CS2: 1995 of diameter of 40mm under tension only.	BS 8110: Part 1: 1985 clause 3.12.8.16.2	HOKLAS	Fugro Technical Services Limited	931678ME60749 931678ME60799	29 May 2006 8 June 2006	21/07/2006	
BD-RS 021	Lenton Position Coupler P14H	Jiun Tzann Industrial Co., Ltd. Taipei, Taiwan	Mechanical couplers for splicing reinforcement bars	Splices for grade 460 high yield deformed bars in compliance with CS2: 1995 of diameter of 50mm under tension only.	BS 8110: Part 1: 1985 clause 3.12.8.16.2	HOKLAS	Fugro Technical Services Limited	931678ME60745	26 May 2006	21/07/2006	

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BD-RS 022	ES Coupler	Ever Success Construction Eng. Materials Ltd. Si Chuan, China	Mechanical coupler for splicing reinforcement bar	Splices for grade 460 high yield deformed bars in compliance with CS2: 1995 of diameter of 32mm and 40mm for soil nail works	BS 8110: Part 1: 1985 clause 3.12.8.16.2	HOKLAS	Soils & Materials Engineering Co. Ltd.	06ST0111 06A 06ST0111 06A	24 June.2006 8.June .2006	25/4/2007	
BD-RS 023	Power Steel Coupler	Weitex Company Ltd. Taipei, Taiwan	Mechanical coupler for splicing reinforcement bar.	Splices for grade 460 high yield deformed bars in compliance with CS2: 1995 of diameter of 25mm and 32mm for soil nail works	BS 8110: Part 1: 1985 clause 3.12.8.16.2	HOKLAS	Fugro Technical Services Limited	042585ME60002 (1)B	11 August 2006	25/4/2007	
BD-RS 024	ES Coupler	Ever Success Construction Eng. Materials Ltd. Si Chuan, China	Mechanical coupler for splicing reinforcement bar	Splices for grade 460 high yield deformed bars in compliance with CS2: 1995 of diameter of 50mm for soil nail works	BS 8110: Part 1: 1985 clause 3.12.8.16.2	HOKLAS	Soils & Materials Engineering Co. Ltd.	06ST1020 07	27 October 2006	18/10/2007	
BD-RS 025	ES Coupler	Ever Success Construction Eng. Materials Ltd. Si Chuan, China	Mechanical coupler for splicing reinforcement bar	Splices for grade 460 high yield deformed bars in compliance with CS2: 1995 of diameter of 25mm for soil nail works	BS 8110: Part 1: 1985 clause 3.12.8.16.2	HOKLAS	Castco Testing Centre Ltd	ST270703-1816	6 July 2007	21/1/2008	

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BD-RS 026	EPCO EM25A and EM32A	VSC Steel Company Limited Taoyuan, Taiwan	Mechanical coupler for splicing reinforcement bar	Splices for grade 460 high yield deformed bars in compliance with CS2: 1995 of diameter of 25mm and 32mm for soil nail works	BS 8110: Part 1: 1985 clause 3.12.8.16.2	HOKLAS	Castco Testing Centre Ltd	ST270616-1656	20 June 2007	21/1/2008	
BD-RS 027	SanLi Type GR Parallel Thread Coupler (SLGR40R0510)	SanLi Development Company Limited Guangdong, China	Mechanical couplers for splicing reinforcement bars	Splices for grade 460 high yield deformed bars in compliance with CS2: 1995 of diameter of 40mm for soil nail works.	BS 8110: Part 1 clause 3.12.8.16.2	HOKLAS	Castco Testing Centre Ltd.	ST260221-0472	24 February 2006	31/1 2008	
BD-RS 028	Sunic Taper-thread Coupler (Y25)	Cosmo Good Investments Ltd. Guangdong, China	Mechanical couplers for splicing reinforcement bars	Splices for grade 460 high yield deformed bars in compliance with CS2: 1995 of diameter of 25mm for soil nail works.	BS 8110: Part 1 clause 3.12.8.16.2	HOKLAS	Geotechnics & Concrete Engineering (HK) Ltd.	STL070502250	14 May 2007	31/1 2008	