

Product Index for Bridges and Other Structures

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Feedback

Please send your feedback regarding this document to: tmr.techdocs@tmr.qld.gov.au

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1 Introduction

Product Index for Bridges and Other Structures (Product Index) is a document produced to assist design and construction staff in locating materials to construct and maintain bridges and other structures that conform to the Department of Transport and Main Roads' Technical Specifications.

This index and related documents are published on the departmental website at <http://www.tmr.qld.gov.au/business-industry/Business-with-us/Approved-products-and-suppliers/Bridges-and-other-structures-approved-products-and-suppliers.aspx>

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This document is complemented by the *Registration Scheme: Suppliers and Products for Bridges and Other Structures*, and the *Proprietary Design Index for Bridges and Other Structures*. If a product cannot be found in this *Product Index* it may be within the scope of these related schemes.

2 Use of this Index

This *Product Index* should be used to identify suitable products for a particular application or activity noted in the relevant Technical Specification. Products listed are assessed against the specific requirements of the Technical Specification. The use of this *Index* to select or exclude products for other applications is not recommended. For applications outside the scope of the product categories, a case-by-case assessment will be necessary, through the usual project communication channels.

This document includes products which fall into two classifications:

1. Registered products and suppliers. Where a Technical Specification specially mentions registration as a requirement, products may not be used on departmental projects unless they are on the list.
2. Conforming products and suppliers. Products or suppliers of this classification may be used on departmental projects if they are not on this list, but must still comply with the stated requirements.

In both cases it is the responsibility of the Contract Administrator to approve the use of products or suppliers for each individual project and monitor conformance requirements. Listing does not guarantee conforming performance of individual product supplied. Inspection and/or batch testing may be required by the governing Technical Specification. It is the Contractor's responsibility to ensure product is conforming and fit-for-use.

The applicable Technical Specifications are referenced in the product listing.

The performance and suitability of these products for the particular application is ultimately the risk of the Contractor. In all cases, suppliers' instructions must be followed.

3 Process for Registration

3.1 Submissions

Suppliers with products that wish to be considered for inclusion in this *Product Index* should forward an application (Form STR-F-010, available on request) including:

- a) company and contact details. Suppliers shall be an Australian-based entity or have an Australian based representative.
- b) product information including Technical Data Sheets (TDSs), Material Safety Data Sheets (MSDSs) and relevant test results from an independent National Association of Testing Authorities (NATA) certified laboratory (or approved equivalent)
- c) evidence of compliance to relevant Technical Specification or Standard Drawing (including version) where applicable
- d) product usage history, and
- e) reference product category in the *Product Index* and reference the department's Technical Specifications.

A physical sample may also be requested.

3.2 Evaluation

Products shall be evaluated against the relevant Technical Specification and, if found conforming, listed in the Product Index on the condition that:

- a) Product (chemical) composition does not change.
- b) Product dimensions do not change.
- c) Performance is maintained.

Should the product composition or design change, or the Technical Specification / Standard Drawing is updated, a new application submission will be required.

3.3 Product removal

Products may be removed from the Product Index for the following reasons:

- a) discontinuation of supply or availability
- b) poor performance
- c) non-compliance to reference Technical Specification, or
- d) failure to provide notification of changes to product or contact details

Suppliers will be notified of removal in writing.

4 Product Index management

To maintain the accuracy of this Product Index, suppliers shall notify Engineering and Technology of any changes to contact or product details.

5 Registered and Conforming Products

5.1 Anchorages for prestressing strand

Systems include anchorages and couplers where indicated. Strands are registered separately.

Registered product: MRTS89

Managed by: Structures Reviews and Standards (SRS)

Supplier	Product name
Australian Prestressing Services Pty Ltd P: 07 3376 4400	APS multi strand system (not including couplers) APS post tensioned slab system
Freyssinet Australia P: 07 3862 0100	Freyssinet 'C' range multi strand system (including mono strand couplers) Freyssinet 'S' range slab tendon system
StrongForce Pty Ltd P: 07 3883 2765	StrongForce multi strand system
SRG Global (Australia) Ltd P: 07 3442 3500	Slab post tensioning systems BBR Cona multi strand post tensioning system Type K couplers for up to 31 x 12.7 mm strands up to 42 x 15.2 mm extra strands
VSL Australia Pty Ltd P: 02 9484 5944	VSL multi strand post tensioning system (including couplers) VSL post tensioning system for slabs
Rizzani de Eccher Australia Pty Ltd P: 08 8372 7900	Tensacciai post-tensioning System with Anchorages Type MTAI15 and MTAIM15
DYWIDAG-Systems International Construction Pty Limited P: 02 4081 5502	DSI MA Multistrand Post Tensioning System

5.2 Anti-graffiti protection

Conforming product: MRTS83

SRS

Supplier	Product name
<i>Non sacrificial</i>	
Wattyl Australia Pty Ltd P: 07 3853 2888	Poly U 400 Anti-Graffiti Clear (2 Part)
Jotun Australia Pty Ltd P: 07 3805 1700	Jotun Imperite 300 (2 Part)
Westpoint Autos Qld Pty Ltd P: 07 3710 5454	Imron EZ-3460S Clearcoat
<i>Sacrificial</i>	
PPG Industries Australia Pty Ltd P: 07 3712 3000	Metacryl 6 Vinyl Acrylic Clear (1 Part)

5.3 Asbestos identification**Registered specialist: design criteria for bridges and other structures, MRTS96****SRS**

Supplier
Central Analytical Research Facility, Queensland University of Technology P: 07 3138 9500

5.4 Bagged Concrete (for frangible support posts)**Registered product: MRTS14****Structures Construction Materials (SCM)**

Supplier	Product name
Cement Australia P: 1300 236 368	PROSTRENGTH Extra Strength Concrete Mix PROSTRENGTH Rapid Set Concrete Mix

5.5 Bar chairs (concrete)**Registered product: MRTS70****SCM**

Supplier	Product name
Actech International Pty Ltd P: 07 3267 7770	CONAC 35AUSFIX HD xx [35–100 mm] Brick (75 x 65 x 50) – not suitable for soffits Trapezium 35TB03 xx [35–50 mm] (340 mm length)
Australian Precast Products Pty Ltd P: 0427 860 562	CRSxx60 [45–85 mm] 'Typical Bar Chair'
Max Frank Pty Ltd P: 1300 853 235	Premium grade <ul style="list-style-type: none"> • Type AO/BAO (without tying wire) • Type AD/BAD (stainless steel wire) • Type AK (with clips) • Rondo and Arolle spacers • Types FAHKS, FAHKBN, FAHSS, FAHSB, FAHDH, FAHKZD, FAHR (330 mm max length) • ABxxHFOEDAU (cast-in wire), and • ABxxQFOED (cast-in wire)

Supplier	Product name
Peds Industrial Pty Ltd M: 0418 477 130	<ul style="list-style-type: none"> • PCBxxG [35-100 mm] (with galvanized tie wire) • PCBxxGS [80-100 mm] (with galvanized tie wire) • PB765 [75 x 65 x 50] (without tie wire) – not suitable for soffits • PB653 [65 x 50 x 32] (without tie wire) – not suitable for soffits • PB654 [60 x 50 x 40] (without tie wire) – not suitable for soffits • PB754 [75 x 50 x 40] (without tie wire) – not suitable for soffits • PB777 [75 x 75 x 75] (without tie wire) – not suitable for soffits • PB1077 [100 x 75 x 75] (without tie wire) – not suitable for soffits • PB11109 [115 x 100 x 90] (without tie wire) – not suitable for soffits
Plastic Solutions Australia Pty Ltd P: 03 9764 0031	<ul style="list-style-type: none"> • 100.0xx-23 [35-70 mm] (Flat with Wire) • 110.0xx-23 [30-45 mm] (Trio with Wire) • 130.0xx-23 [50-75 mm] (Triple with Wire)
Spacers Australia Pty Ltd P: 03 9570 7155	CBS xx [40–75 mm]

5.6 Bar chairs (Carbon Fibre Reinforced Polymer)**Registered product: MRTS63****SCM**

Supplier	Product name
Co-Packers (QLD) Pty Ltd P: 07 3376 2333	CHxx/20 CBN (Close Helix) 90 – 110 mm HDxx/20 CBN (Heavy Duty) 90 – 110 mm HDxx/25 CBN (Heavy Duty) 65 – 110 mm mmCFxxCBNE 85 – 150 mm CFxxE 85 – 150 mm

5.7 Bridge bearings**Conforming product: MRTS81****SRS**

Supplier	Type
Trelleborg Queensland Rubber Pty Ltd P: 07 3866 7433 (Sales)	Single layer bearing Laminated bearing Pot bearing
Granor Rubber and Engineering Pty Ltd P: 03 9762 9699	Single layer bearing Laminated bearing Pot bearing
Mageba (Australia) Pty Ltd P: 02 8188 5851	Single layer bearing Laminated bearing Pot bearing (RESTON POT) (Mageba and Ludowici brands)
Freyssinet Bearings Agent: Freyssinet Australia Pty Ltd P: 07 3862 0100	Pot bearing (Tetron CD)
Tensacciai Srl (Tensa) M: 0459 797 060	Single layer bearing Laminated bearing Pot bearing

5.8 Bridge bearing mortar pads**Conforming product: MRTS74****SRS**

Supplier	Product Name
Parchem Construction Supplies Pty Ltd P: 1300 737 787 (Sales)	Renderoc BB

5.9 Bridge deck joints – compressible filler**Conforming product: MRTS77****SRS**

Supplier	Product name
<i>Bitumen impregnated fibrous material</i>	
ICI Australia Operations Pty Ltd P: 03 9665 7111	Jointex

Supplier	Product name
Konnect Fastening Systems P: 07 3291 8200	KonnectFlex
Parchem Construction Supplies Pty Ltd P: 1300 737 787 (Sales)	Fosroc Cellflex
<i>Bitumen impregnated flexible polyurethane foam</i>	
ICI Australia Operations Pty Ltd P: 03 9665 7111	Compriband
Tremco Pty Ltd P: 07 3889 9222	Presstite

5.10 Bridge deck joints – expanded polyethylene sheets and joint fillers

Conforming product: MRTS77

SRS

Supplier	Product name
PJ Bowers Pty Ltd P: 07 5593 8277	PE45 to PE140 kg / m ³ closed cell foam
Pacreo Pty Ltd P: 07 3889 3933	'PacJoint' Closed cell expanded polyethylene sheet with stainless steel backing plate for barrier joints
Parchem Construction Supplies Pty Ltd P: 1300 737 787 (Sales)	Fosroc Expandafoam Fosroc Hydrocell

5.11 Bridge deck joints – sealant

Registered product: MRTS77

SRS

Supplier	Product name
<i>Hot applied bitumen based joint sealant</i>	
Adheseal Pty Ltd P: 07 3356 0000	Megaprene Hot Melt
SAMI Bitumen Technologies Pty Ltd P: 02 9638 0150	SAMifilla HM
Bituminous Products Pty Ltd. P: 07 3260 1088	Bitulastic Bituflex
<i>Silicone joint sealant</i>	
Dow Corning Australia Pty Ltd P: 1300 360 732	Dow Corning 888
Parchem Construction Supplies Pty Ltd P: 1300 737 787	Nitoseal SC800 Nitoseal SC820
Sika Australia Pty Ltd P: 07 3633 9222	Sikasil 728NS
ITW Australia Pty Ltd as Ramset P: 1300 780 063	HiSeal Traffic Grade

Supplier	Product name
<i>Polyurethane elastomer joint sealant</i>	
Adheseal Pty Ltd P: 07 3356 0000	Megaprene 40
Bostik Australia Pty Ltd P: 1800 267 845	Bostik Seal N Flex FC
Normet Asia-Pacific Pty Ltd P: 07 3205 3566	TamSeal JS5 (Limitations on applications subject to water pressure or on porous substrates)
Parchem Construction Supplies Pty Ltd P: 1300 737 787 (Sales)	Fosroc Thioflex 600 Gun Grade – for fixed ends only
Sika Australia Pty Ltd P: 07 3633 9222	Sikaflex Construction AP
Tremco CPG Australia Pty Ltd P: 02 9638 2755	Dynomic 100
Universal Corrosion Coatings Pty Ltd P: 03 9310 3515	JointSeal 5000 Membrane UniFlex 1000

5.12 Cast in ferrules**Registered product: MRTS72, MRTS73****SCM**

Supplier	Product name
Ancon Building Products Pty Ltd as Leviat P: 1300 304 320	<ul style="list-style-type: none"> • QwikFix Round Ferrules • QwikFoot Ferrules • T Fixx Ferrules
Plastic Solutions Australia Pty Ltd P: 03 9764 0031	<ul style="list-style-type: none"> • Standard Round Ferrules (not for lifting) • Footed Ferrules • M10 – M24 Stainless Steel Ferrules
ITW Australia Pty Ltd as Ramset P: 1300 780 063	<ul style="list-style-type: none"> • TCMxxSS (Stainless steel) • FHG xxyy (Galvanized) <i>xx = diameter; yy = length</i>
ITW Australia Pty Ltd as Reid Construction Systems P: 1300 780 250	<ul style="list-style-type: none"> • Elephant Foot ferrules (FE Series) • Round bar ferrules (FS Series)
VSL Australia Pty Ltd P: 02 9484 5944	<ul style="list-style-type: none"> • Pfeifer mounting bushes • Pfeifer DB anchors

5.13 Chemical fastener products for installation of reinforcing bars**Registered product: MRTS86****SRS**

Supplier	Product name
Hilti (Aust) Pty Ltd P: 131 292	Hilti HIT-RE 500 injection adhesive (for bonding reinforcing bars) Hilti HIT-HY-200-R chemical anchor adhesive
ITW Australia Pty Ltd as Ramset P: 1300 780 063	ChemSet Reo 502 ChemSet Injection 801 ChemSet Injection 101 ChemSet Maxima Spin Capsules ChemSet 801 Xtrem Epcon C8 Xtrem Chemset REO802 Plus
Powers Fasteners Australasia Pty Ltd P: 07 3712 2600 or 07 3441 9300	Pure150 Pro Epoxy adhesive AC 100 PRO Styrene free adhesive system
Simpson Strong Tie Australia Pty Ltd P: 03 9544 2140	SET XP chemical anchor adhesive
Anchormark Pty Ltd P: 03 9799 2696	Fischer FIS V, FIS SB, FIS EM Plus
Blackwoods P: 07 3275 7222	Rawlplug R-KEX II
ICCONS Pty Ltd P: 07 3290 5144	ICCONS BIS-V, BIS-PE and BIS-HY hybrid injection, BIS-HY GEN2, BIS-PE GEN3
Hobson Engineering Co Pty Ltd P: 07 3273 0777	Mungo Injection System – MIT700RE, MIT-Hybrid, MIT-SE Plus,
Wurth Australia P: 03 8788 1111	WIT-PE 1000, WIT-UH 300, WIT-VM 250
Stanley Black & Decker Pty Ltd (DEWALT) M: 0449 901 790	DEWALT-AC200+ DEWALT-PURE500+
Allfasteners Australia P: 1800 255 349	EF500R+, VF18, VF222PRO

5.14 Closed cell polyethylene compressible foam and backing rods for bridge decks**Registered product: MRTS77****SRS**

Supplier	Product name
ICI Australia Operations Pty Ltd P: 03 9665 7111	Polyethylene backing rod
Parchem Construction Supplies Pty Ltd P: 1300 737 787 (Sales)	Emer Seal backing rod
Sika Australia Pty Ltd P: 07 3633 9222	Sika backing rod
PJ Bowers Pty Ltd P: 07 5593 8277	Bridgefoam closed cell foam (with and without stickyback) Neolon closed cell foam backing rod

5.15 Date plate and permanent survey mark**Conforming product: MRTS77, Standard Drawing 2005****SRS**

Supplier	Type
Intasign Australia Pty Ltd P: 07 3205 2244	Date plate
Geospatial Council of Australia E: shop@geospatialcouncil.org.au	Permanent Survey Mark

5.16 Crack sealants and concrete primers**Registered product: MRTS84****SRS**

Supplier	Product name
<i>Bitumen crack sealant</i>	
Adheseal Pty Ltd P: 07 3356 0000	Megaprene Hot Melt
SAMI Bitumen Technologies Pty Ltd P: 02 9638 0150	SAMIfilla HM
<i>Priming concrete surface – Types A and B</i>	
SAMI Bitumen Technologies Pty Ltd P: 02 9638 0150	SAMlprime K2P

5.17 Drainage systems for structures**Conforming product: MRTS03****SRS**

Supplier	Product name
Geofabrics Australasia Pty Ltd P: 07 3279 1588	Megaflo

5.18 Drainage Lining for drains and channels**Conforming product: MRTS03****SRS**

Supplier	Product name
Earthlok P 0431 450 726	Earthlok drainage lining

5.19 Epoxy for anchorages and tendons (surface tolerant)**Registered product: MRTS73, MRTS74, MRTS86****SRS**

Supplier	Product name
Australian Construction Epoxies P: 07 3806 1944	ACE Epoxy Mortar
Carboline (Resent Paints) P: 07 3287 0222	Carboguard 636 XT Carboguard 640
Dulux Australia P: 07 3867 8500	Durebuild STE
International Paint Ltd P: 07 3727 5100	Interzone 954
Master Builders Solutions P: 1300 227 300	MasterBrace 1444
PPG P: 07 3712 3000	Amerlock 2K SigmaShield 880
Universal Corrosion Coatings Pty Ltd P: 03 9310 3515	MightyPoxy P1
Vivactiy Engineering P: 02 9875 3044	Megapoxy P1
Wattyl Australia Pty Ltd P: 132 101	Epinamel DTM985

5.20 Epoxy paste for bearing installation**Registered product: MRTS75 / MRTS74****SRS**

Supplier	Product name
Sika Australia Pty Ltd P: 07 3633 9222	Sikadur 33

5.21 Epoxy for expansion joints**Registered product: MRTS82****SRS**

Supplier	Product name
Miska Pty Ltd P: 1300 663 521	FC446 (Flexible epoxy) FC122
Hilti (Aust) Pty Ltd P: 131 292	Araldite CA80

Supplier	Product name
ITW Australia Pty Ltd as Ramset P: 1300 780 063	Epoxy grout Epoxy grout 7042
ITW Australia Pty Ltd as ITW Polymers and Fluids P: 1800 063 511	'Chockfast RED' deep pour epoxy grouting compound
Sika Australia Pty Ltd P: 07 3633 9222	Sikadur 42HP

5.22 Epoxy for wet to dry bonds and bonding agents

Registered product: MRTS74 and MRTS86

SCM

Supplier	Product name
MB [Master Builders] Solutions Australia Pty Ltd P: 1300 227 300	MasterEmaco 2525
Jaybro Pty Ltd P: 1300 885 364	Dayton Superior J58
Parchem Construction Supplies Pty Ltd P: 1300 737 787 (Sales)	Nitobond EP
Sika Australia Pty Ltd P: 07 3633 9222	Sikadur 32

5.23 Evaporative retarding compound

Registered product: MRTS70

SCM

Supplier	Product name
MB [Master Builders] Solutions Australia Pty Ltd P: 1300 227 300	Masterkure 111
Chemical House Pty Ltd P: 07 5594 0344	A-Film
Parchem Construction Supplies Pty Ltd P: 1300 737 787 (Sales)	Concure AV
ITW Australia Pty Ltd as Reid Construction Systems P: 1300 780 250	Reid Cure8 AA
RLA Polymers Pty Ltd P: 1800 242 931	Aftek Curecon Double A
Sika Australia Pty Ltd P: 07 3633 9222	Sika film

5.24 Expansion joints**Registered product: MRTS82****SRS**

Supplier	Product name
<i>Cast in extruded aluminium joint</i>	
Granor Rubber & Engineering Pty Ltd P: 03 9762 9699	Ausflex series 'AC-AR' expansion joint
Miska Pty Ltd P: 1300 663 521	BJ6 cast in bridge expansion joint (with NF seal)
Trelleborg Engineered Systems Australia Pty Ltd P: 07 3866 7444	TESA SSA 100 expansion joint system including footpath cover plate
Mageba (Australia) Pty Ltd P: 02 8188 5851	"TENSA GRIP AU SA" single gap aluminium strip seal expansion joints
Australian Bridge Products P: 07 5572 0903	BJXC strip seal expansion joint
<i>Bolt in extruded aluminium joint</i>	
Granor Rubber & Engineering Pty Ltd P: 03 9762 9699	Ausflex Series 'ACB' Stripseal expansion joint system
Miska Pty Ltd P: 1300 663 521	BJ1 bridge joint (with NF seal)
Mageba (Australia) Pty Ltd P: 02 8188 5851	"TENSA GRIP AU BA" strip seal expansion joints
Australian Bridge Products P: 07 5572 0903	BJXA strip seal expansion joint
<i>Sealant joints with elastomeric concrete nosing</i>	
Granor Rubber & Engineering Pty Ltd P: 03 9762 9699	XJS Expansion Joint System
Mageba (Australia) Pty Ltd – engineering connections® P: 02 8188 5851	TENSA SEAL Expansion Joint
Trelleborg Engineered Systems Pty Ltd P: 07 3866 7444	TESA PHS Expansion Joint
Australian Bridge Products P: 07 5572 0903	<i>Provisional approval as per the Department's letter of approval dated 26-7-2023.</i> BPNX Bridge Deck Expansion Joint System
<i>Strip seal expansion joints without deck anchors</i>	
Evolution Civil Maintenance Pty Ltd P: 02 8785 7608	'Britflex BEJ' Bridge Expansion Joint
Granor Rubber & Engineering Pty Ltd P: 03 9762 9699	WaboCreate Strip Seal
<i>Compression seal</i>	
Granor Rubber & Engineering Pty Ltd P: 03 9762 9699	Wabo Compression Seal

5.25 Expansion joints – finger type**Registered product: MRTS82A****SRS**

Supplier	Product name
Mageba (Australia) Pty Ltd P: 02 8188 5851	<i>Provisional approval as per the Department's letter of approval dated 28-08-2020.</i> TENSA® FINGER Type RSFD Series RSFD-B100, RSFD-B150, RSFD-B200, RSFD-B250, RSFD-B300, RSFD-B350, RSFD-B400
Granor Rubber & Engineering Pty Ltd P: 03 9762 9699	Granor® / Etic Steel Finger 'SFEJ Series' SFEJ-150, SFEJ-200, SFEJ-250, SFEJ-300, SFEJ-350, SFEJ-400, SFEJ-450, SFEJ-500, SFEJ-550 and SFEJ-600

5.26 Fibres for concrete**Registered product: MRTS273****SCM**

Supplier	Product name
BarChip Australia Pty Ltd P: 1300 131 158	BarChip 48 BarChip R50 BarChip R65 BarChip 60 BarChip MACRO
Danbar Plastics P: 03 5339 4262	RePoly RF47 Danbar VF47
Enviromesh Pty Ltd as Fibercon P: 1300 002 748	Fibercon MP47 eMesh
Helix Steel Australasia Pty Ltd P: 03 5258 3663	Helix Micro Rebar 5-25
Mapei Australia Pty Ltd P: 07 3276 5000	Mapefibre BG 55 Mapefibre MB 65
MB [Master Builders] Solutions Australia Pty Ltd P: 1300 227 300	MasterFibre 051 MasterFiber F 018 MasterFiber M 018 MasterFiber 143

Supplier	Product name
Sika Australia Pty Ltd P: 07 3633 9222	SikaFiber Force PP-48 SikaFiber Force PP-65 SikaFiber Force 48/19 SikaFiber Sika Fibermesh – 150 Sika Confibre 19F Sika Confibre 51F SikaFiber Novocon HE1060-HT SikaFiber – 1050 FE SikaFiber Novocon HE5535 HT SikaFibre Novomesh 950 SikaFibre Novocon XR-1038
Texo Australasia P: 1300 008 396	Forta Ferro 54 ReoShore 58
Twintec Australia Pty Ltd P: 0474 560 841	TwinMesh MacroMesh MicroMesh

The following fibres are suitable for extruded traffic barrier to *MRTS14* but have not been assessed against *MRTS273*.

Supplier	Product name
GCP Australia Pty Ltd as GCP Applied Technologies P: 07 3277 7244	Grace 51 mm fibre

5.27 Grates, covers and frames**Conforming product: MRTS03, Standard Drawing 1307–1312, 1321–1322****SCM**

Supplier	Product name
EJ Australia Pty Ltd P: 07 3216 5000	GC96D 900 x 600 mm Type J (1 & 2) 900 x 600 mm TP800E-S 600 mm TP800E-SW 600 mm LA60DS 600 mm LA60DSW 600 mm MAESTRO sewer MAESTRO stormwater
Precast Civil Industries Pty Ltd as CivilMart P: 07 3800 7815	15A15005 900 x 600 mm Class D 15A15060 900 x 600 mm Class C (Type J-1)
Patent Products Australia Pty Ltd P: 07 3266 2183	PPGG96D 900 x 600 mm PPGG74D 760 x 450 mm
Nepean Building and Infrastructure Pty Ltd as Weldlok P: 07 3633 1333	GG6090DD 900 x 600 mm STDCSW0600-2D 600 mm HPG6060D 600 x 600 mm

5.28 Interlocking blocks**Conforming product: MRTS03****SCM**

Supplier	Product name
Erosion Control Systems Pty Ltd P: 1300 781 620	Terrafix T45
Adbri Ltd as Adbri Masonry P: 07 3382 4100	Quatrafix

5.29 Lifting anchors**Registered product: MRTS24, MRTS72, MRTS73****SCM**

Supplier	Product name
Actech International Pty Ltd P: 07 3267 7770	ALTAS Liffix foot anchors and foot eye anchors Liffix Edge TKA 2.5T HDG Liffix Edge TKA 5.0T HDG
DYWIDAG Systems International Pty Ltd P: 02 4947 5591	Foot and eye anchors Arteon Lifting Loops
Ancon building Products Pty Ltd as Leviat P: 1300 304 320	Unilift cone anchor Unilift reo anchor Edj Pro concrete lifting system LinkPro lifting loops

Supplier	Product name
Obelix Lifting Systems Pty Ltd P: 1800 797 288	Obelix lifting system
Plastic Solutions Australia Pty Ltd P: 03 9764 0031	LiftMX 10t edge lifting system LiftMX 8t edge lifting system LiftMX 7t edge lifting system <i>NB: PSA also distributes the Dywidag products</i>
ITW Australia Pty Ltd as Reid Construction Systems P: 1300 780 250	SWIFT LIFT foot, eye and combination anchors JAWS edge lift anchors
RUD Chains Pty Ltd P: 07 3809 1300	Philipp 'Quick Lift' lifting system <ul style="list-style-type: none"> • spherical head transport anchor • hole anchor Cast in lifting loops Philipp threaded lifting system <ul style="list-style-type: none"> • threaded transport anchor – straight tail and way tail including short way tail • capped end anchor and lifting device • screw anchor • compact anchor • lifting insert with crosshole • lifting insert – crimped • double sided lifting inserts • transport anchor with transport anchor loop (system)
Tilt Lift Equipment Pty Ltd P: 07 3423 1522	P-52 SL foot anchor P-82 Olivetti

5.30 Mechanical reinforcing bar splices

Registered Product: MRTS71

SCM

Supplier	Product name
Ancon building Products Pty Ltd as Leviat P: 1300 304 320	BT Couplers Types A, B and C MBT Mechanical Bolted Couplers
Cage BMS Pty Ltd P: 07 3823 2625	BMS Ironman Couplers Types A, B and C
DYWIDAG Systems International Pty Ltd P: 02 4947 5591	GEWI T 3003 [12 – 32 mm] (with lock nuts) Lock nuts not required with soil nails.
Erico Products Australia Pty Ltd P: 02 9751 8500	Lenton Plus Standard Coupler (A12) Lenton Plus Position Couplers (P13 and P14) Lenton Lock
Infrabuild Construction Solutions Pty Ltd P: 07 3845 5697	Griptec Standard Coupler Unitec Coupler

Supplier	Product name
Peikko Australia Pty Ltd P: 1300 734 556	MODIX SM standard coupler (16 – 40mm)
REOGRIP Pty Ltd P: 0416 047 060	Cone Sleeve Locking Couplers
Smart Core Solutions Pty Ltd P: 1300 797 350	Smart Core Coupler (SCC)
SRG Global (Australia) Ltd P: 07 3442 3500	BPS standard couplers BPH Hybrid Couplers Jemeg PT rebar couplers Jemeg CABR wedge couplers (Sys.D) PTM standard couplers (12 – 40mm)

5.31 Post tensioning grout

Conforming product: MRTS89

Registered product: MRTS74

SCM

Supplier	Product name
Sika Australia Pty Ltd P: 07 3633 9222	Sika grout – 300PT
Bluey Technologies Pty Ltd P: 1300 227 300	BluCem HS200
Crosbe Pty Ltd P: 1300 797 560	InfraGrout 110 InfraGrout 110 LC

5.32 Post tensioning system – bars

The two system types are not interchangeable and changing from one to the other will have design implications. Systems include bar, nuts, washers, anchor plates and couplers.

Registered product: MRTS73

Conforming product: MRTS89

SCM

Supplier	Product name
<i>Threadbar Systems</i>	
DYWIDAG Systems International Pty Ltd P: 02 4947 5591	26.5 - 32 mm Grade 950 / 1050 36 - 47 mm Grade 1050
<i>CT Stressbar Systems</i>	
Freyssinet Australia Pty Ltd P: 07 3862 0100	Freyssibars prestressing bar system (up to 56 mm diameter)
SRG Global Ltd P: 07 3442 3500	Macalloy prestressing bar system (up to 50 mm diameter)
VSL Australia Pty Ltd P: 02 9484 5944	VSL CT Stressbar system (up to 56 mm diameter)

5.33 Red lead removal**Conforming product: MRTS85****SCM**

Supplier	Product or service name
Monarflex Australia Pty Ltd P: 02 4323 4777	Monarflex (collection system)
Thomas Contracting Pty Ltd P: 08 8268 5538	Red lead removal
Cleanaway P: 13 13 39	Red lead waste disposal

5.34 Repair Materials (Concrete) – Grouts

Approval of materials for concrete element repair should be sought through the nonconformance procedure (that is, case-by-case or project-by-project). A Specification for certain classes of repair is under development.

As per *MRTS72* and *MRTS73* registration is only required for filling lifting recess and debonding sheaths. Products listed above may not be suitable for other applications, and other products may be more suitable.

Registered product: MRTS72, MRTS73**SCM**

Supplier	Product name	28-day Strength (MPa)
MB [Master Builders] Solutions Australia Pty Ltd P: 1300 227 300	MasterFlow 788 MasterFlow 810	60 MPa 65 MPa
Bluey Technologies Pty Ltd P: 1300 227 300	BluCem HS60 BluCem HE80 BluCem HE80AG	60–80 MPa 70–90 MPa 70–90 MPa
Bostik Australia Pty Ltd P: 02 8825 3488	Techflow Grout GP Techflow Grout HS Techflow Grout HES Techflow LA Grout Flowfill Grout GP Flowfill Grout UW Flowfill Panel Grout	35–85 MPa 67–90 MPa 50–70 MPa 67–83 MPa 50–85 MPa 60 MPa 40–75 MPa
Building Chemical Supplies (Australia) Pty Ltd P: 07 3890 8306	Emcekrete HP Emcekrete RS	65 MPa (min) 60 MPa (min)
CTS Rapid Set Cement Pty Ltd P: 02 9632 1900	Cement All	60 MPa

Supplier	Product name	28-day Strength (MPa)
Five Star Construction Products Pty Ltd P: 07 3375 7844	Fluid Grout 100	69 MPa
Hychem International Pty Ltd P: 02 4646 1660	Velosit NG511	70 MPa
	Velosit NG512	90 MPa
Jaybro Pty Ltd P: 1300 885 364	Dayton Turbo Grout HP 12	90 MPa
	Dayton Turbo Grout LT 12	90 MPa
Mapei Australia Pty Ltd P: 07 3276 5000	Mapefill GP	55 MPa
	Mapefill SP	60 MPa
Normet Asia-Pacific Pty Ltd P: 07 3205 3566	Tamcrete GP	65 MPa (min)
	Tamcrete HF	70 MPa (min)
Parchem Construction Supplies Pty Ltd P: 1300 737 787	Conbextra C	55 MPa (min)
	Conbextra GP	60 MPa
	Conbextra Deep Pour	60 MPa
	Conbextra HES	55 MPa
	Conbextra HF	60 MPa (min)
	Conbextra HS	90 MPa
Sika Australia Pty Ltd P: 07 3633 9222	SikaGrout – GP	50 MPa (min)
	SikaGrout – 212HP	70 MPa (min)
	SikaGrout – 100	80 MPa (min)
	SikaGrout – Deep Pour	85 MPa (min)
	SikaGrout – UW	80 MPa (min)
	SikaGrout – Ultra	100 MPa (min)
	SikaGrout – HES	70 MPa (min)
Tremco CPG Australia P: 02 9638 2955	TREMgrout NS	78 MPa

5.35 Repair Materials (Concrete) – Mortars

Approval of materials for concrete element repair should be sought through the non-conformance procedure (that is, case-by-case or project-by-project). A Specification for certain classes of repair is under development.

As per *MRTS72* and *MRTS73* registration is only required for filling lifting recess. Products listed below may not be suitable for other applications, and other products may be more suitable.

These products shall be used with primers, bonding agents and/or fairing coats as directed by the Supplier's instructions.

Registered product: *MRTS72*, *MRTS73*

SCM

Supplier	Product name	28-day Strength (MPa)
MB [Master Builders] Solutions Australia Pty Ltd P: 1300 227 300	MasterEmaco N 5200 CI	40 MPa
	MasterEmaco S 5300 CI	40 MPa
	MasterEmaco S 5400 CI	70 MPa
	MasterEmaco S 5440 CI	80 MPa

Supplier	Product name	28-day Strength (MPa)
Bluey Technologies Pty Ltd P: 1300 227 300	BluCem HB50	50 MPa
Bostik Australia Pty Ltd P: 02 8825 3488	Patchfix Structural HB Patchfix Fine Render	40–60 MPa 20–30 MPa
CTS Rapid Set Cement Pty Ltd P: 02 9632 1900	Mortar Mix	50 MPa
Hychem International Pty Ltd P: 02 4646 1660	Velosit RM203 Velosit RM205	50 MPa 50 MPa
Jaybro Pty Ltd P: 1300 885 364	Dayton Civil Structural VO	75 MPa
Mapai Australia Pty Ltd P: 07 3276 5000	Mapegrout T40 Mapegrout T60 Planitop Smooth & Repair R4	40 MPa 60 MPa 50 MPa
Parchem Construction Supplies Pty Ltd P: 1300 737 787	Patchroc C Patchroc GP Paveroc Renderoc HB40 Renderoc HB40 Plus Renderoc HB70 Renderoc HB70 Plus Renderoc Rapid	50 MPa 55 MPa 55 MPa 35 MPa 50 MPa 70 MPa 60 MPa 55 MPa
Sika Australia Pty Ltd P: 07 3633 9222	MonoTop – 612N MonoTop – 723N MonoTop – 412NFG MonoTop – 352NFG SikaQuick – 2500	70 MPa 32 MPa 60 MPa 32 MPa 100 MPa
Normet Asia-Pacific Pty Ltd P: 07 3205 3566	Tamcrete 40HB	35 MPa (min)
Tremco Pty Ltd P: 07 3216 5344	TREMcrete HBM	60 MPa
Xypex Australia P:07 3442 4300	Megamix II	50 MPa

5.36 Repair Materials (Concrete) – Crack Injection

Approval of materials for concrete element repair should be sought through the non-conformance procedure (that is, case-by-case or project-by-project).

Conforming product: Specification in Development

SCM

Supplier	Product name
MB [Master Builders] Solutions Australia Pty Ltd P: 1300 227 300	MasterInject 1380
Building Chemical Supplies (Australia) Pty Ltd P: 07 3890 8306	MC-DUR 1264 KF MC-DUR 1264 FF

Supplier	Product name
Chemrite Technologies Pty Ltd P: 07 3205 4519	Chemrite CiLV Chemrite C-IT
Jaybro Pty Ltd P: 1300 885 364	Dayton Superior J56
Normet Asia-Pacific Pty Ltd P: 07 3205 3566	TamRez 210/210TC TamRez 220 TamRez 310
Parchem Construction Supplies Pty Ltd P: 1300 737 787	Nitofill LV
Sika Australia Pty Ltd P: 07 3633 9222	Sikadur 52 (Sikafloor 94)

5.37 Straps for signs

Registered product: Standard Drawing 1363 & 1364

SCM & SRS

Supplier	Product name
Signfix Australia P: 07 5598 4319	HRH 1510CH and HRH 2010CH To be used with cuphead bolt and hex nut

5.38 Tapes for bridge decks

Conforming product: MRTS77

SRS

Supplier	Product name
3M Australia Pty Ltd P: 13 61 36	3M adhesive transfer tape
Denso (Australia) Pty Ltd P: 1300 658 590	Densopol 60 (formerly Rockrap 3000)
Parchem Construction Supplies Pty Ltd P: 1300 737 787 (Sales)	Proofex S
Universal Corrosion Coatings Pty Ltd P: 03 9310 3515	JointSeal 5000 Membrane Uniflex 1000 Tape

6 Cross reference matrix

Technical Specification	Product Index Category
MRTS03 <i>Drainage, Retaining Structures and Embankment Slope Protections</i>	Drainage systems for structures Drainage lining for drains and channels Grates, covers and frames Interlocking blocks
MRTS14 <i>Road Furniture</i>	Bagged concrete
MRTS63 <i>Cast-In-Place Piles</i>	Bar chairs (plastic)
MRTS70 <i>Concrete</i>	Bar chairs (concrete) Epoxy for wet to dry bonds Evaporative retarding compound
MRTS71 <i>Reinforcing Steel</i>	Mechanical reinforcing bar splices
MRTS24 <i>Manufacture of Precast Concrete Culverts</i> MRTS72 <i>Manufacture of Precast Concrete Elements</i>	Lifting anchors Cast in ferrules
MRTS73 <i>Manufacture of Prestressed Concrete Members and Stressing Units</i>	Epoxy for anchorages and tendons Lifting anchors Cast in ferrules
MRTS74 <i>Supply and Erection of Prestressed Concrete Deck and Kerb Units</i>	Epoxy for anchorages and tendons Epoxy for bearing installation Bridge bearing mortar pads Epoxy for wet to dry bonds Post tensioning grout Post tensioning system – bars
MRTS75 <i>Supply and Erection of Prestressed Concrete Girders</i>	Epoxy for bearing installation
MRTS77 <i>Bridge Deck</i>	Epoxy Putty / Mortar Bitumen based joint sealant Polyurethane elastomer based joint sealant Silicon joint sealant Compressible filler Closed cell expanded polyethylene sheets and rods Tape Cold galvanising paint Joint sealant Date Plate Permanent survey mark
MRTS81 <i>Bridge Bearings</i>	Bridge bearings
MRTS82 <i>Bridge Deck Expansion Joints</i>	Expansion joints
MRTS82A <i>Finger Type Bridge Deck Expansion Joints</i>	Finger expansion joints Cast in ferrules Mineral grease Joint sealant

Technical Specification	Product Index Category
MRTS83 <i>Anti-Graffiti Protection</i>	Anti-graffiti protection
MRTS84 <i>Deck Wearing Surface</i>	Hot applied bitumen based crack sealant Concrete surface primer Type C Proprietary bridge deck waterproofing system
MRTS85 <i>Repainting Steel Bridges</i>	Red lead removal
MRTS86 <i>Preparation for Bridge Widening</i>	Chemical fasteners for installation of reinforcing bars
MRTS88 <i>Protective Coating for New Work</i>	See Technical Note TN144
MRTS89 <i>Post tensioned Concrete</i>	Post tensioning grout Post tensioning system – bars Anchors for prestressing strand
MRTS96 <i>Management and Removal of Asbestos</i>	Investigation and testing for identification of asbestos
MRTS273 <i>Fibre-reinforced Concrete</i>	Fibres for concrete
Standard Drawing 1363 – <i>Traffic sign – Multiple traffic sign support</i> Standard Drawing 1364 – <i>Traffic sign – Connection strap and erection cleat details</i>	Stiffener connecting straps for signs

