

Product Index for Bridges and Other Structures

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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' 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>

This document is maintained by Engineering and Technology Branch (Structures). Enquiries should be directed, as indicated in the relevant product entry, to:

Dr Stephen Rae (Structures Construction Materials - SCM) on 3066 1162
(TMRStructuralMaterials@tmr.qld.gov.au) or

Mr Jayaratna Mahagamage (Structures Reviews and Standards – SRS) on 3066 8628
(TMR_Structural_Reviews@tmr.qld.gov.au).

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 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 are evaluated against Transport and Main Roads specification requirements and are specifically mentioned as requiring registration, for that particular application. Products or suppliers for this classification may not be used on departmental projects unless they are on the list.
2. Conforming products and suppliers are also evaluated against departmental specification requirements. Products or suppliers of this classification may be used on departmental projects if they are not on this list.

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 specification. It is the Contractor's responsibility to ensure product is conforming and fit-for-use.

The applicable 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:

- company and contact details
- 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)
- evidence of compliance to relevant specification or drawing (including version) where applicable
- product usage history
- reference product category in the *Product Index* and reference Transport and Main Roads Technical Specifications.

A physical sample may also be requested.

3.2 Evaluation

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

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

Should the product composition or design change, or the specification / 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:

- discontinuation of supply or availability
- poor performance
- non-compliance to reference specifications.

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.

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5. Registered and Conforming Products

5.1 Anchors for prestressing strand

Registered product: MRTS89

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 Limited 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

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

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 Bar chairs (concrete)

Registered product: MRTS70

Structures Construction Materials (SCM)

Supplier	Product name
Actech International Pty Ltd P: 07 3267 7770	CONAC 35AUSFIX HD.xx [35 – 80 mm]
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 • ABxxHFOEDAU (cast-in wire) • ABxxQFOED (cast-in wire)
Peds (RC) M: 0418 477 130	PCBxxG (with galvanized tie wire)
Spacers Australia Pty Ltd P: 03 9570 7155	CBS xx [40 – 75 mm]

5.5 Bar chairs (Carbon Fibre Reinforced Polymer)

Registered product: MRTS63

SCM

Supplier	Product name
Co-Packers (QLD) Pty Ltd P: 07 3376 2333	SS Spacer Wheel and Clip (Sizes 35 – 100 mm)

5.6 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)

5.7 Bridge bearing mortar pads

Conforming product: MRTS74

SRS

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

5.8 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	Compriband Jointex
Parchem Construction Supplies Pty Ltd P: 1300 737 787 (Sales)	Fosroc Cellflex
Cement Australia Packaged Products (QLD) Pty Ltd P: 07 3875 9555	Meljoint
<i>Bitumen impregnated flexible polyurethane foam</i>	
Tremco Pty Ltd P: 07 3889 9222	Presstite

5.9 Bridge deck joints – expanded polyethelene

Conforming product: MRTS77

SRS

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

5.10 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
<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 (Sales)	Fosroc Hilastic roadseal Roadseal Roadseal SL
mortgridsSika Australia Pty Ltd P: 07 3633 9222	Sikasil 728NS
Ramset P: 1300 780 063	HiSeal Traffic Grade
<i>Polyurethane elastomer joint sealant</i>	
Adheseal Pty Ltd P: 07 3356 0000	Megaprene 40
Sika Australia Pty Ltd P: 07 3633 9222	Sikaflex Construction AP
Parchem Construction Supplies Pty Ltd P: 1300 737 787 (Sales)	Fosroc Thioflex 600 Gun Grade – for fixed ends only
Normet Asia-Pacific Pty Ltd P: 07 3205 3566	TamSeal JS5 (Limitations on applications subject to water pressure or on porous substrates)

5.11 Cast in ferrules

Registered product: MRTS72, MRTS73

SCM

Supplier	Product name
Ancon Building Products P: 1300 304 320	QwikFix Round Ferrules QwikFoot Ferrules T Fixx Ferrules
Plastic Solutions Australia P: 03 9764 0031	Standard Round Ferrules (not for lifting) Footed Ferrules (not for lifting)
Ramset P: 1300 780 063	TCMxxSS (Stainless steel) FHG xxyy (Galvanized) <i>xx = diameter; yy = length</i>
Reid Construction Systems Pty Ltd P: 1300 780 250	Elephant Foot ferrules (FE Series) Round bar ferrules (FS Series)
VSL Australia Pty Ltd P: 02 9875 3894	Pfeifer mounting bushes Pfeifer DB anchors

5.12 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
Ramset P: 1300 780 063	ChemSet Reo 502 ChemSet Injection 801 ChemSet Injection 101 ChemSet Maxima Spin Capsules
Powers Fasteners Australasia 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 EM and FIS SB
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

5.13 Closed cell expanded polyethylene sheets and 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	Closed cell polyethylene 'bridge foam' 'Neolon' polyethylene copolymer foam backing rod

5.14 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
Spatial Industries Business Association (SIBA) P : 1300 733 784	Permanent Survey Mark

5.15 Deck waterproofing system

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	SAMPrime K2P
Parchem Construction Supplies Pty Ltd P: 1300 737 787 (Sales)	Fosroc Dekguard S Fosroc Dekguard E2000

5.16 Drainage systems for structures

Conforming product: MRTS03

SRS

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

5.17 Epoxy for anchorages and tendons (surface tolerant)

Registered product: MRTS73, MRTS74, MRTS86

SRS

Supplier	Product name
Australian Construction Epoxies P: 3806 1944	ACE Epoxy Mortar
Altex Coatings Limited P: 1800 738 383	Altra Tar
BASF Construction Chemicals P: 07 3633 9900	MasterBrace 1444
Dulux Australia P: 07 3867 8500	Durebuild STE
International Paint Ltd P: 07 3727 5100	Interzone 954
PPG P: 07 3712 3000	Amerlock 2K SigmaShield 880
Protec Pty Ltd P: 07 3717 3800	Barmastic EMH 390
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

5.18 Epoxy paste for bearing installation

Registered product: MRTS75 / MRTS74

SRS

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

5.19 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
Ramset P: 1300 780 063	Epoxy grout Epoxy grout 7042
ITW Polymers and Fluids P: 1800 063 511	'Chockfast RED' deep pour epoxy grouting compound
Sika Australia Pty Ltd P: 07 3633 9222	Sikadur 42LE (au)

5.20 Epoxy for wet to dry bonds and bonding agents

Registered product: MRTS70, MRTS74 and MRTS86

SCM

Supplier	Product name
BASF Construction Chemicals P: 07 3633 9900	MasterEmaco 2525
Parchem Construction Supplies Pty Ltd P: 1300 737 787 (Sales)	Nitobond EP
Sika Australia Pty Ltd P: 07 3633 9222	Sikadur 32

5.21 Evaporative retarding compound

Registered product: MRTS70

SCM

Supplier	Product name
BASF Construction Chemicals P: 07 3633 9900	Masterkure 111
Chemical House Pty Ltd P: 07 5594 0344	A-Film
Cure it Chemical Applicators P: 07 3889 8420	SprayFilm
ITLS TWA Australia Pty Ltd P: 03 9791 8211	Aftek Curecon Double A
Parchem Construction Supplies Pty Ltd P: 1300 737 787 (Sales)	Concure AV
Reid Construction Systems Pty Ltd P: 1300 780 250	Reid Cure8 AA
Sika Australia Pty Ltd P: 07 3633 9222	Sika film

5.22 Expansion joints

Registered product: MRTS82

SRS

Supplier	Product name
<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)
<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 Engineering Systems P: 07 3866 7444	TESA SSA 100 expansion joint system

5.23 Expansion joints (alternative types)

Alternate product: Project-specific supplementary specification

SRS

These expansion joint types are not within the scope of the current specification MRTS82 *Bridge Deck Expansion Joints*. Therefore, the designer needs to consider joint types specified in MRTS82 firstly and the alternative types shall only be used if the bridge designer demonstrates the benefit of using these joint types. Project specific supplementary specifications shall be developed, reviewed and approved if these joint types are used.

The department is considering incorporating other joint types for the next revision of MRTS82. Therefore, until MRTS82 is revised, evaluations of new products will be undertaken on a case-by-case basis for this expansion joint category.

Supplier	Product name
Evolution Civil Maintenance Pty Ltd P: 02 9605 7000	'Britflex BEJ' Bridge Expansion Joint
Granor Rubber & Engineering Pty Ltd P: 03 9762 9699	XJS Expansion Joint System ⁽¹⁾ Wabo CompressionSeal WaboCrete StripSeal
Trelleborg Engineering Systems P: 07 3866 7444	TESA PHS Expansion Joint ⁽¹⁾

Note ¹- 50% of the rated joint elongation to be used

5.24 Expansion joints – finger type

Registered product: MRTS82A

SRS

Supplier	Product name
Mageba (Australia) Pty Ltd – engineering connections® P: 02 8809 8036	Mageba fingerplate joint TENSA FINGER TYPE RSFD-B140-AU
Granor Rubber & Engineering Pty Ltd P: 03 9762 9699	Granor® / Etic Steel Finger 'SFEJ Series' SFEJ-50, SFEJ-200, SFEJ-250, SFEJ-300, SFEJ-350 , SFEJ-400, SFEJ-450, SFEJ-500, SFEJ-550 and SFEJ-600

5.25 Fibres for concrete traffic barriers

Note: These fibres are for traffic barriers only. Fibres for use in other applications (shotcrete, pathways etc) are assessed as part of the concrete element design.

Conforming product: MRTS14

SCM

Supplier	Product name
BASF Australia P: 07 3633 9900	MasterFibre 051 (packaged as Texo Net)
Grace Australia P: 07 3277 7244	Grace 51 mm fibre
Sika Australia Pty Ltd P: 07 3633 9222	Sika Confibre 51F
Propex Concrete Systems (Australia) Ltd P: 02 9965 3792	FIBERMESH 300–50 mm

5.26 Grates, covers and frames

Conforming product: *MRTS03, Standard Drawing 1307–1312, 1321–1322*

SCM

Supplier	Product name	
ECO P: 03 9360 3444	900 x 600 mm gully grating and frame (with circular opening dimension of 585 mm)	
EJ P: 07 3216 5000	Type J2	900 x 600 mm
	NORT500A	610 x 370 mm
	NORT500T	610 x 370 mm
	NORG77DV	750 x 750 mm
	GC96D	900 x 600 mm
	D600G	600 x 600 mm
	D600A	600 x 600 mm
	NORTPLUST	680 x 500 mm
	NORTPLUSA	680 x 500 mm
	MAESTRO sewer	
	MAESTRO stormwater	
Tellam Civil Products P: 07 3800 7815	900 x 600 mm road gully grate and frame 900 x 600 mm field inlet grate and frame	
Hygrade Water P: 03 5278 3779	GGA9060D1BC CSA60D1	Grate and frame Cover and frame
Webforge Queensland P: 07 3859 8300	MSG66DH MSG69DH DCC6DB2LT	600 x 600 mm 600 x 900 mm 600 mm
Weldlok P: 07 3633 1333	GG6090DD STDC6SSW-2D DCG96D HPG6060D	900 x 600 mm 600 mm 900 x 600 mm (dished) 600 x 600 mm

5.27 Interlocking blocks

Conforming product: *MRTS03*

SCM

Supplier	Product name
Erosion Control Systems P: 03 9850 7211	Terrafix T45
Adbri Masonry P: 07 3382 4100	Quatrafix

5.28 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
Ancon Building Products P: 1300 304 320	Unilift cone anchor Unilift reo anchor Edj Pro concrete lifting system LinkPro lifting loops
DYWIDAG Systems International Pty Ltd P: 02 4947 5591	Foot and eye anchors Arteon Lifting Loops
Obelix Lifting Systems Pty Ltd P: 1800 797 288	Obelix lifting system
Reid Construction Systems Pty Ltd 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

5.29 Mechanical reinforcing bar splices

Registered Product: MRTS71

SCM

Supplier	Product name
Ancon Building Products P: 1300 304 320	BT Couplers Types A, B and C MBT Mechanical Bolted Couplers
DYWIDAG Systems International Pty Ltd P: 02 4947 5591	GEWI T 3003 [12 – 32 mm] (with lock nuts)
Erico Products Australia Pty Ltd P: 02 9751 8500	Lenton type A2 Lenton types P13 and P14 Lenton Lock
Jemeg Rebar Couplers P: 0411 605 197	PT rebar couplers CABR wedge couplers (Sys.D)
Preshcon Couplers P: +65 9759 8025	BMS Ironman Couplers Types A, B and C

5.30 Post tensioning grout

Conforming product: MRTS89

SCM

Supplier	Product name
Sika Australia Pty Ltd P: 07 3633 9222	Sika grout – 300PT
Bluey Technologies Pty Ltd P: 07 3161 7743	BluCem HS200

5.31 Post tensioning system – bars

Note: The two bar systems are not interchangeable and changing from one to the other will have design implications.

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 mm Grade 950 / 1050 32 mm Grade 950 / 1050
<i>CT Stressbar Systems</i>	
Freyssinet Australia P: 07 3862 0100	Freyssibars prestressing bar system (up to 56 mm diameter)
SRG Limited P: 07 3442 3500	Macalloy prestressing bar system (up to 50 mm diameter)
VSL Australia Pty Ltd P: 02 9875 3894	VSL CT Stressbar system (up to 56 mm diameter)

Systems include bar, nuts, washers, anchor plates and couplers

5.32 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 P: 08 8268 5538	Red lead removal
Cleanaway Industrial Services P: 13 13 39	Red lead waste disposal

5.33 Reinforcing stainless steel

Registered supplier: MRTS71A

SCM

Supplier	Type
Ancon Building Products P: 1300 304 320	Grade 316 Duplex grade 2205
Atlas Specialty Metals P: 07 3246 9999	Grade 316 Duplex grade 2205
Valbruna Australia Pty Ltd P: 07 3807 9733	Grade 316 Duplex grade 2205

5.34 Repair Materials (Concrete) – Grouts

Registered product: MRTS72, MRTS73

SCM

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

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.

Supplier	Product name	28-day Strength (MPa)
BASF Construction Chemicals P: 07 3633 9900	MasterFlow 788 MasterFlow 810	60 MPa 65 MPa
Bluey Technologies Pty Ltd P: 07 3161 7743	BluCem HS60	60 – 80 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) 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
Normet Asia-Pacific Pty Ltd P: 07 3205 3566	Tamcrete GP Tamcrete HF TamCrete AP Primer	65 MPa (min) 70 MPa (min) -
Parchem Construction Supplies Pty Ltd P: 1300 737 787	Conbextra C Conbextra GP Conbextra Deep Pour Conbextra HES Conbextra HF Renderoc LA55	55 MPa (min) 60 MPa 60 MPa 55 MPa 60 MPa (min) 60 MPa
Sika Australia Pty Ltd P: 07 3633 9222	SikaGrout - GP SikaGrout - 212HP SikaGrout - 100 SikaGrout - Deep Pour SikaGrout - UW SikaGrout - Ultra SikaGrout - HES	50 MPa (min) 70 MPa (min) 80 MPa (min) 85 MPa (min) 80 MPa (min) 100 MPa (min) 70 MPa (min)

5.35 Repair Materials (Concrete) – Mortars

Registered product: MRTS72, MRTS73

SCM

Note: 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.

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.

Supplier	Product name	28-day Strength (MPa)
BASF Construction Chemicals P: 07 3633 9900	MasterEmaco N 5200 CI	40 MPa
	MasterEmaco S 5300 CI	40 MPa
	MasterEmaco S 5400 CI	70 MPa
	MasterEmaco S 5440 CI	80 MPa
	MasterEmaco N 5100	- (Fairing coat)
	MasterEmaco 5150	- (Fairing coat)
Bluey Technologies Pty Ltd P: 07 3161 7743	BluCem HB50	50 MPa
	BluCem FC	-
Bostik Australia Pty Ltd P: 02 8825 3488	Patchfix Structural HB	40 – 60 MPa
	Patchfix Fine Render	20 – 30 MPa
CTS Rapid Set Cement Pty Ltd P: 02 9632 1900	Mortar Mix	50 MPa
Parchem Construction Supplies Pty Ltd P: 1300 737 787	Patchroc C	50 MPa
	Patchroc GP	55 MPa
	Paveroc	55 MPa
	Renderoc FC	-
	Renderoc HB40	35 MPa
	Renderoc HB50	50 MPa
	Renderoc HB70	70 MPa
Renderoc Rapid	55 MPa	
Sika Australia Pty Ltd P: 07 3633 9222	MonoTop - FC	-
	MonoTop - 910	-
	MonoTop – 436N	70 MPa
	MonoTop – 612N	70 MPa
	MonoTop – 723N	32 MPa
	MonoTop - 412NFG	60 MPa
	MonoTop - 352NFG	32 MPa
	SikaQuick - 2500	100 MPa
Normet Asia-Pacific Pty Ltd P: 07 3205 3566	Tamcrete 40HB	35 MPa (min)
	TamCrete AP Primer	-
	TamCrete FC	-

These products shall be used with primers or bonding agents as directed by the Supplier's instructions.

5.36 Repair Materials (Concrete) – Crack Injection Mortar

Conforming product: Specification in Development

SCM

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

Supplier	Product name
BASF Construction chemicals P: 07 3633 9900	Concessive 1375
Building Chemical Supplies (Australia) Pty Ltd P: 07 3890 8306	MC-DUR 1264 KF MC-DUR 1264 FF
Chemrite Technologies P: 07 3205 4519	Chemrite CiLV Chemrite C-IT
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 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)	Conwrap

6. Cross reference matrix

Specification	Product Index Category
MRTS03 <i>Drainage, Retaining Structures and Protective Treatments</i>	Drainage systems for structures Grates, covers and frames Interlocking blocks
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
MRTS71A <i>Stainless Steel Reinforcing</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
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
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

Specification	Product Index Category
MRTS85 <i>Repainting Steel Bridges</i> MRTS85A <i>Repainting Existing Steel Bridges and New Steel Bridges Zinc Metal Systems</i>	Protective paints for steel structures 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>	Protective paints for steel structures
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
Standard Drawing 1460 – Type F concrete barrier – Extruded median barrier – Barrier, reinforcing and expansion joint details	Fibres for concrete
Standard Drawings 1363 – <i>Traffic sign – Multiple traffic sign support – Standard and breakaway posts – Drawings 1 of 2 and 2 of 2</i> and Standard Drawing 1364 – <i>Traffic sign – Connection strap and erection cleat details</i>	Stiffener connecting straps for signs

7. Supplier contact details

Supplier	Contact details
3M Australia	Locked Bag 19 North Ryde NSW 1670 P: 13 61 36 F: 1800 636 444 E: 3mindustrialauucs@mmm.com W: www.solutions.3m.com.au
Actech International Pty Ltd	76 Buchanan Road Banyo QLD 4014 P: 07 3267 7770 F: 07 3267 8880 W: www.actech.com.au
Adbri Masonry	85 Christenson Road Stapylton QLD 4207 P: 07 3382 4100 F: 07 3382 4185 W: www.adbrimasonry.com.au
Adheseal Pty Ltd	2/8 Harvton Street Stafford QLD 4053 P: 07 3356 0000 F: 07 3356 0005
Altex Coatings Limited	7 Production Avenue Molendinar QLD 4214 P: 1800 738 383 W: www.altexcoatings.co.nz/contact_us
Ancon Building Products	4/31 Archimedes Place Murarrie QLD 4172 P: 1300 304 320 F: 07 3395 6693 W: www.anconbp.com.au
Atlas Specialty Metals	1302 Boundary Road Wacol QLD 4076 P: 07 3246 9999 F: 07 3246 9966 W: www.atlasmetals.com.au
Australian Construction Epoxies	46 Chetwynd St Loganholme QLD 4129 P: 07 3806 1944 W: www.ace-epoxy.com.au
Australian Precast Products Pty Ltd	P.O. Box 59 Bell QLD 4408 P: 0427 860 562 F: 07 4668 6888 E: ausprecast@bigpond.com

Supplier	Contact details
Australian Prestressing Services Pty Ltd	14 Bronze Street Sumner Park QLD 4074 P: 07 3376 4400 F: 07 3376 4600 E: admin@apsqld.com.au
Anchormark Pty Ltd	61 Waterview Close, Dandenong South, VIC 3175 P :03 9799 2696 F :03 9799 2696 W: www.anchormark.com.au
BASF Construction Chemicals	731 Curtain Avenue East Eagle Farm QLD 4009 P: 07 3633 9900 F: 07 3633 9999 W: www.basf.com.au
Blackwoods	131-137 Mica Street, Carole Park, Qld 4300 PO Box 375, Goodna Qld 4300 P: 07 3275 7222 F: 07 3271 6040 W: www.blackwoods.com.au
Bluey Technologies Pty Ltd	Suite 6, Level 1 531 Sandgate Road Clayfield QLD 4011 PO Box 898 Hamilton QLD 4007 P: 07 3135 9442 F: 07 3161 7918 W: www.bluey.com.au
Bostik Australia Pty Ltd	2/94 Meakin Road Meadowbrook QLD 4131 P: 02 8825 3488 F: 02 8825 3411 W: www.bostik.com.au
Building Chemical Supplies (Australia) Pty Ltd	286 New Cleveland Road Tingalpa QLD 4173 PO Box 3321 Tingalpa DC 4173 P: 07 3890 8306 F: 07 3890 8312 E: sales@bcstralia.com W: www.bcsmc.com.au

Supplier	Contact details
Cement Australia Packaged Products (Qld) Pty Ltd	65 Norbury Street Coopers Plains QLD 4108 P: 07 3875 9555 F: 07 3875 1469 W: www.cemaust.com.au
Central Analytical Research Facility, Queensland University of Technology	Institute for Future Environments GPO Box 2434 Brisbane QLD 4001 P: 07 3138 9500 W: www.qut.edu.au/institute-for-future-environments/facilities/central-analytical-research-facility
Chemical House Pty Ltd	9 Production Avenue Molendinar QLD 4214 P: 07 5594 0344 F: 07 5594 0236 W: www.chemicalhouse.com.au
CHEMRITE Technologies Pty Ltd	Unit 34, 193 South Pine Road BRENDALE QLD 4500 P: 07 3205 4519 F: 07 3205 4955 W: www.chemrite-tech.com
Cleanaway Industrial Services	58 Crockford Street Northgate QLD 4013 P: 13 13 39 W: www.transpacific.com.au
Co-Packers (Qld) Pty Ltd	5 Jijaws Street Sumner Park QLD 4074 P: 07 3376 2333 W: www.co-packers.com.au
CTS Rapid Set Cement Pty Ltd	19-21 Cann Street Guildford NSW 2161 P: 02 9632 1900 F: 02 9892 1825
Cure it Chemical Applicators Pty Ltd	Suite 3, 31 Kremzow Road Brendale QLD 4500 PO Box 5876 Brendale BC QLD 4500 P: 07 3889 8420 F: 07 3205 9213 W: www.cureitchemical.com.au

Supplier	Contact details
Denso (Australia) Pty Ltd	411–413 Victoria Street Brunswick VIC 3056 P: 1300 658 590 W: www.densoaustralia.com.au
Dow Corning Australia Pty Ltd	Locked Bag 2095 North Ryde NSW 1670 P: 1300 360 732 F: 1300 650 785 W: www.dowcorning.com
Dulux Australia	1477 Ipswich Road Rocklea QLD 4106 P: 07 3867 8500 F: 07 3867 8450 W: www.duluxprotectivecoatings.com.au
DYWIDAG-Systems International Pty Ltd	25 Pacific Highway Bennetts Green NSW 2290 P: 02 4947 5591 W: www.DYWIDAG-systems.com
ECO	1 Melbourne Street Rocklea QLD 4106 P: 07 3255 9885 W: www.rhino-grating.com.au
EJ	9 Delta Street Geebung QLD 4034 P: 07 3216 5000 F: 07 3216 5222 W: www.ejico.com
Erico Products Australia Pty Ltd	323 Parramatta Road Auburn NSW 2144 PO Box 6044 Silverwater NSW 1811 P: 02 9751 8500 F: 02 9475 0369 W: www.erico.com
Erosion Control Systems	PO Box 321 Heidelberg VIC 3084 P: 03 9850 7211 F: 03 9850 7221 W: www.erosioncontrol.com.au
Evolution Civil Maintenance	4/27 Williamson Rd Ingleburn NSW 2565 P: 02 9605 7000 W: www.evolutioncivil.com.au

Supplier	Contact details
Freyssinet Bearings Agent: Freyssinet Australia Pty Ltd	6 Chapman Place Eagle Farm QLD 4009 P: 07 3862 0100 F: 07 3862 0111 W: www.freyssinet.com.au
Geofabrics Australasia Pty Ltd	125 Wolston Road Sumner Park QLD 4074 P: 07 3279 1588 F: 07 3279 1589 W: www.geofabrics.com.au
Grace Australia	14 Colebard Street West Archerfield QLD 4108 P: 07 3277 7244 F: 07 3875 1365 W: www.graceconstructions.com
Granor Rubber & Engineering Pty Ltd	8 Reid Street Bayswater VIC 3153 P: 03 9762 9699 F: 03 9762 9611 E: info@granor.com.au W: www.granor.com.au
Hilti (Aust) Pty Ltd	Unit 3, 718 Kingsford Smith Drive Hamilton QLD 4007 P: 131 292 F: 1300 135 042 W: www.hilti.com.au
Hygrade Water Australia Pty Ltd	24 Meadows Avenue Coopers Plains QLD 4108 P: 07 3216 7007 F: 07 3216 7343 E: info@hygradewater.com.au W: www.hygradewater.com.au
ICCONS Pty Ltd	42-44 Nealdon Drive Meadowbrook QLD 4131 Australia P : 07 3200 6455 F : 07 3299 7548 W : www.iccons.com.au
ICI Australia Operations Pty Ltd	1 Nicholson Street Melbourne VIC 3000 GPO Box 4311 Melbourne VIC 3001 P: 03 9665 7111

Supplier	Contact details
Icon-Septech	2/18 Riverland Drive Loganholme QLD 4129 P: 1300 557 143 F: 07 3808 7488 W: www.icon-septech.com.au
Intasigns Pty Ltd	4/21 Terrence Road Brendale QLD 4500 PO Box 5971 Brendale DC QLD 4500 P: 07 3205 2244 F: 07 3205 4708 W: www.intasign.com
International Paint Ltd	373 Sherbrooke Rd Willawong QLD 4110 P: 07 3727 5100 F: 07 3879 1584 W: www.international-pc.com
ITLS TWA Australia Pty Ltd	250 Princes Highway Dandenong VIC 3175 P: 03 9791 8211 F: 03 9791 8644 W: www.itls-twa.com.au
ITW Polymers and Fluids	100 Hassall Street Wetherill Park NSW 2164 P: 1800 063 511 F: 1800 803 596 W: www.itw-pf.com.au
Jemeg Rebar Couplers	P: 0411 605 197
Jotun Australia Pty Ltd	3 Prospect Place Berrinba QLD 4117 PO Box 83 Waterford QLD 4133 P: 07 3290 1444 F: 07 3290 1333 E: sales@jotun.com.au W: www.jotun.com
Mageba (Australia) Pty Ltd - engineering connections®	Suite 308, Floor 13, 81 Flushcombe Rd Blacktown NSW 2148 P: 02 8188 5851 E: skazi@mageba.com.au W: www.mageba-group.com

Supplier	Contact details
Max Frank Pty Ltd	Northbank Plaza Level 22, 69 Ann Street Brisbane QLD 4000 P: 1300 853 235 M: 0438 601 006 W: www.maxfrank.com.au
Miska Pty Ltd	75 Colebard Street West Acacia Ridge QLD 4110 P: 1300 663 521 W: www.miska.com.au
Monarflex Australia Pty Ltd	3/14 Gibbens Street Gosford West NSW 2250 P: 02 4323 4777 F:02 4324 7199
Normet Asia-Pacific Pty Ltd	Unit 9, Building 2 18 Hinkler Court Brendale QLD 4500 P: 07 3205 3566 F: 07 3205 8644 W: www.taminternational.com.au
Nylex Limited	1b/400 Nudgee Road Hendra QLD 4011 P: 07 3268 2451 OR 1800 338 105 F: 1800 338 140 W: www.nylex.com.au
Obelix Lifting Systems Pty Ltd	Level 10, 168 Walker Street North Sydney NSW 2060 P: 1800 797 288 W: www.obelixlifters.com.au
Pacreo Pty Ltd	40 Beach Street Kippa ring QLD 4021 PO Box 3115 Clontarf QLD 4019 P: 07 3889 3933 F: 07 3889 3944 W: www.pacreo.com.au E: sales@pacreo.com.au
Pascol Paints Australia Pty Ltd	PO Box 5001 Baulkham Hills NSW 2153 P: 132 101

Supplier	Contact details
Parchem Construction Supplies Pty Ltd	14 Manton Street Morningside QLD 4170 P: 07 3902 2300 P: 1300 737 787 (Sales) F: 07 3399 4822 W: www.parchem.com.au
Peds (RC) Pty Ltd	74 Skye Point Road Coal Point NSW 2283 M: 0418 477 130 E: pedsrc@bigpond.com
PJ Bowers Pty Ltd	13 Central Drive Burleigh Heads QLD 4220 P: 07 5593 8277 F: 07 5593 8477 E: sales@pjbowers.com.au W: www.pjbowers.com.au
Plastic Solutions Australia Pty Ltd	PO Box 9132 Scoresby, Victoria 3179 P: 03 9764 0031 W: www.psa.com.au
PPG Industries Australia Pty Ltd	Cnr Cobalt and Mica Streets Carole Park QLD 4300 PO Box 126 Goodna QLD 4300 P: 07 3712 3000 F: 07 3221 3511 W: www.ppgpmc.com.au
Powers Fasteners Australasia	58 Link Drive Yatala QLD 4207 P: 07 3712 2600 or 07 3441 9300 F: 07 3441 9399 W: www.powers.com.au
Preshcon Couplers	57 Ubi Avenue 1 #05-08, Ubi Centre Building Singapore 408936 P: +65 6478 1340 W: www.preshcon.com
Propex Concrete Systems (Australia) Ltd	119 Willoughby Road Crows Nest NSW 2065 P: 02 9965 3792 F: 02 9965 3702 W: www.fibermesh.com

Supplier	Contact details
Protec Pty Ltd	35 Collinsvale Street Rocklea QLD 4106 P: 07 3717 3800 F: 07 3875 1330 473 Newman Road Geebung QLD 4034 P: 07 3216 5895 F: 07 3865 6351 W: www.protec.com.au
Ramset	PO Box 2462 Fortitude Valley QLD 4006 P: 1300 780 063 F: 1300 780 064
Reid Construction Systems Pty Ltd	29 Steel Place Morningside QLD 4170 P: 1300 780 250 F: 1300 780 122 W: www.reid.com.au
RUD Chains Pty Ltd	12 Commerce Place Larapinta QLD 4110 P: 07 3809 1200 W: www.rud.com.au
SAMI Bitumen Technologies Pty Ltd	12 Grand Ave Camellia NSW 2142 P: 02 9638 0150 F: 02 9636 4983 W: www.sami.com.au , www.samibitumen.com.au
Signfix Australia	4/7 Wheeler Crescent Currumbin QLD 4223 P : 07 5598 4319 F : 07 5598 4321 E : mail@signfix.com.au
Sika Australia Pty Ltd	30 Parker Court Pinkenba QLD 4008 P: 07 3633 9222 F: 07 3633 9200 W: www.sika.com.au
Spacers Australia Pty Ltd	178 Houghton Rd Huntingdale VIC 3166 P: 03 9570 7155 W: www.spacers.com.au

Supplier	Contact details
Spatial Industries Business Association (SIBA)	64 Sylvan Road, Toowong QLD 4066 P : 1300 733 784 E : accounts@siba.com.au W : www.siba.com.au
Simpson Strong-Tie Australia Pty. Ltd	16/40 Ricketts Road Mount Waverley, Vic 3149 P: 03 9544 2140 F : 03 9562 8982 E: ntapping@strongtie.com W: www.strongtie.com.au
SRG Limited	1/12 Commerce Circuit Yatala QLD 4207 P: 07 3442 3500 or 1300 775 477 E: info@srglimited.com.au
StrongForce Pty Ltd	13 Burwood Terrace Clontarf QLD 4019 P: 07 3883 2765
Tellam Civil Products	87 Logistics Place Larapinta QLD 4110 P: 07 3800 7815 F: 07 3800 2297 W: www.tellam.com.au
Thomas Contracting	26 Audley St Woodville SA 5012 P: 08 8268 5538
Tilt Lift Equipment Pty Ltd	5 Darnick Street Underwood QLD 4119 P: 07 3423 1522 F: 07 3423 1533
Trelleborg Engineering Systems	515 Zillmere Road Zillmere QLD 4034 P: 07 3866 7435 W: www.trelleborg.com.au

Supplier	Contact details
Trelleborg Queensland Rubber Pty Ltd	515 Zillmere Road (Cnr Pineapple Street) Zillmere QLD 4034 P: 07 3866 7444 P: 07 3866 7433 (Sales) F: 07 3263 4912 E: tqr.info@trelleborg.com W: www.trelleborg.com.au
Tremco Pty Ltd	4/210 Robinson Road Geebung QLD 4034 P: 07 3216 5344 F: 07 3216 5055 E: tremco@tremco.com.au W: www.tremco.com.au
Unicon Systems	4/15 Terrace Place Murarrie QLD 4172 P: 1300 304 320 F: 07 3395 6693 W: www.unicon.net.au
Universal Corrosion Coatings Pty Ltd	30A Trade Park Drive Tullamarine VIC 3043 P: 03 9310 3515 F: 03 9310 3524 W: www.unicc.com.au
Valbruna Australia Pty Ltd	45 Elderslie Road Yatala QLD 4207 P: 07 3807 9733 F: 07 3807 9744 W: www.valbruna.com.au
Vivactiy Engineering	PO Box 71 Hornsby NSW 1630 P: 02 9875 3044 E: info@megapoxy.com W: www.megapoxy.com
VSL Australia Pty Ltd	6 Pioneer Ave Thornleigh NSW 2120 P: 02 9484 5944 W: www.vsl-australia.com.au
Wattyl Australia Pty Ltd	Queensland office 65 Railway Parade Rocklea QLD 4106 P: 07 3853 2888 F: 07 3875 1610 W: www.wattyl.com.au Technical enquiries: P: 13 21 01

Supplier	Contact details
Webforge Queensland	1149 Kingford-Smith Drive Pinkenba Qld 4008 P: 07 3859 8300 F: 07 3859 8390 E: gld_sales@webforge.com.au
Weldlok	967 Nudgee Rd Banyo QLD 4014 P: 07 3633 1333
Westpoint Autos Qld Pty Ltd	90 Westcombe Street Darra Qld 4076 P: 07 3710 5454 F: 07 3279 3215 W: www.westpointautos.com.au
Zinc Corrosion Solutions	61 Derwent Park Road Moonah TAS 7009 PO Box 216 Moonah TAS 7009 P: 03 6273 5118, 03 6273 5119 E: info@zinga.com.au

