

precast solutions

product guide



product guide | 2019

precast solutions



content

Lifting Systems 5

Face Lifting Anchors	6
SwiftLift Foot Anchors	6
Edge Lifting	7
Reid™ SwiftLift™ Eye Anchors	7
Reid™ Hairpin Anchors	7
Reid™ Edge Lift Anchors	7
Zeus	8
Recess Formers	9
SwiftLift™ Recess Formers – Plastic	9
SwiftLift™ Recess Round Formers – Steel	9
SwiftLift™ Recess Round Formers – Steel Articulated	9
Edge Lift Recess Formers – Rubber	9
SwiftLift Recess Formers – Rubber	9
Assemblies	10
Face Lifting Assemblies	10
Face Lifting Puddle-In Assemblies	10
Edge Lift Assemblies	10
SwiftLift™ Lifting Clutches	11
SwiftLift Lifting Clutches for Edge Lifting	11
Hairpin / Plate Anchor Clutches to suit Edge Lifting	11
Accessories	12
SwiftLift™ Anchor Cover Plates	12
Panel Plates	12
Panel Pads	12



Reinforcing Systems 13

ReidBar Systems	14
ReidBar™ Coupler	14
ReidBar™ Inserts	15
ReidBar™ Nut	16
ReidBar™ Wing Nut	17
ReidBar™ HDG Domed Plates & Spherical Washers	17
ReidBar™ Grout Sleeve	17
ReidBar™ Accessories	18
ReidBar™ Nail Plates	18
Reinforcing Support Chairs	20
Mesh Chair	20
Panel Chair	20
Bar Chair	21
Bar Deck Rail	21

Precast Connections 22

Metric Threaded Inserts	23
Metric Threaded Insert Accessories	24
Glue On Nailing Plates	24
Reid Metric Plastic Nail Plates	24

Chemicals Precast 25

Release Agents	26
Nox-Crete Bio-Nox	26
Nox-Crete Release Agent #10	28
Maintenance & Installation	30
Nox-Crete Blast Off	30
Nox-Crete Formguard Tj Plus	31
Nox-Crete Kem-Ex-It Plus	32
Application Sprayer Systems	34
Nox-Crete Excel Precision Form Sprayer	34
Nox-Crete Perfect Concrete & Form Sprayer	35
Nox-Crete Hand pump Foamer	35
Sealants and Adhesives	36
Form Seal Silicone Selant	36
Foams	36
Epoxy Repair	36
Chemset™ 801 Xtrem	37
Epcon™ C6	37

Formwork System 38

Spartan™ System	39
Spartan™ Sideform	40
Spartan™ Sideform Rubbert End Caps	40
Spartan™ Sideform Capping	41
Spartan™ Rubbert Base Inserts	41
Titan™ III Magnet Clamp	42
Titan™ Magnet Adapter Plates	42
Spartan™ Sideform Joiner Plates	43
Titan™ Ball Lock Rail Stip	43
Titan Screw Fix Bracket	43
Panel ID Plates	43
SwiftForm™	44
Aluminium Extruded Profile Section	45
SwiftForm Components	45
SwiftForm Magnet	46
EdgeForm LVL	46
Reid™ Extruded Sections	46
Sealant	46
Architectural Solutions	48
Graphic Concrete	50
Fitzgerald Formliners	54
Nirvana Insulated Panels	58





lifting systems

Reid have the longest serving history, and most enviable reputation, in New Zealand when it comes to Concrete Lifting Products.

If your business is lifting precast concrete, the range of products offered by Reid is the most comprehensive, researched and tested by any New Zealand supplier.

Using Reid products gives you piece of mind that you are using the best, most reliable and most efficient.

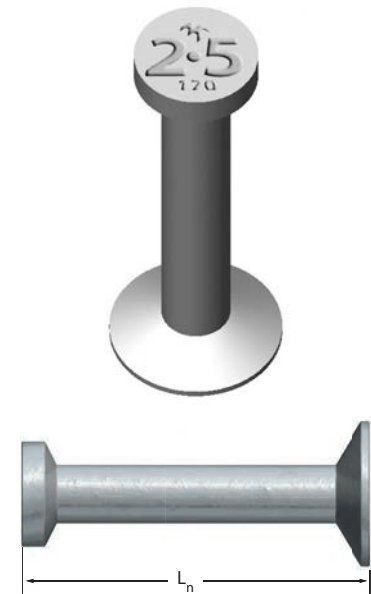
Reid don't just supply the best product, but supply the highest standard of design support for every aspect of the precast and reinforcing process.

Reid™ SwiftLift™ Anchors

SwiftLift Foot Anchors

SwiftLift Foot Anchors are the most versatile and widely used anchors in the SwiftLift range. Made from forged high strength steel, the Foot Anchors are hot dipped galvanised for corrosion protection. 316 Stainless Steel anchors are available on request.

Part No.	Description	Length (mm)	Pack Qty
1FA035H	1.3 tonne	35mm	200
1FA045H		45mm	200
1FA055H		55mm	200
1FA066H		66mm	200
1FA085H		85mm	100
1FA120H		120mm	100
1FA240H		240mm	50
2FA055H	2.5 tonne	55mm	100
2FA065H		65mm	100
2FA075H		75mm	100
2FA090H		90mm	50
2FA120H		120mm	50
2FA170H		170mm	25
5FA075	5 tonne	75mm	40
5FA090		90mm	25
5FA095		95mm	35
5FA120		120mm	25
5FA145		145mm	25
5FA170		170mm	*20
5FA240		240mm	15
5FA480		480mm	10
10FA135	10 tonne	135mm	5
10FA150		150mm	5
10FA170		170mm	5
10FA200		200mm	8
10FA340		340mm	5
20FA500	20 tonne	500mm	2
32FA700*	32 tonne	700mm	1



Foot Anchor Facts:

- Consistent with the Reid™ commitment to testing, SwiftLift™ Foot Anchors have been extensively tested in concrete comprising of over 500 individual tests, and consuming approximately 150 tonnes of concrete.

Analysis of the subsequent test data SwiftLift™ Foot Anchors having Working Load Limit capacities that are far higher and more accurate than those simply calculated using the CCD method.

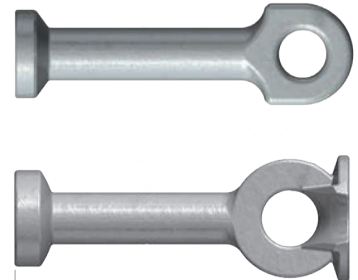
*Indent Only ** Still in the process of running-out old quantity stock, new stock will transition in coming months.

Reid[™] SwiftLift[™] Eye & Combination Anchor

SwiftLift Eye and Combination Anchors are a forged steel anchor for use with Reid SwiftLift clutches (LE). With higher load performance, the Anchors provide deeper anchorage and increased load capacity in thin wall or low strength concrete elements. They are ideal for bridge beams and other heavy precast concrete elements. Hot dip galvanised for corrosion protection.

Part No.	Description	Length (mm)	Pack Qty
1REA050	1.3 tonne	50mm	200
2REA090	2.5 tonne	90mm	75
5REA120	5 tonne	120mm	25
10EA180	10 tonne	180mm	20
20EA250*	20 tonne	250mm	4**

*Indent Only ** Still in the process of running-out old quantity stock, new stock will transition in coming months.



Reid[™] Hairpin Anchors

The Reid Hairpin Anchor with feet eliminates the requirement of a shear bar and removes the risk of hanger bars being left out during installation. The HPAWF is available in two sizes, and is forged for added strength. Its thick, long hairpin legs provide secure lifting in both shear and tension applications, even in thin concrete panels (minimum panel thickness is 100mm). Hot dipped galvanised for corrosion protection, beneficial in thin panels where concrete cover is minimal.

Part No.	Description	Length (mm)	Pack Qty
2HPAWFP	2.5 tonne	264mm	ea
7HPAWFP	7 tonne	340mm	ea



Reid[™] Edge Lift Anchors

The Reid Edge Lift Anchor is a forged steel anchor for use with Reid ring clutch (ELALE) for edge lifting precast concrete panels. The anchor requires hanger bars for tension loads. Use with the Reid Recess Former ELARRF. Designed for thin panels, the ELAWF anchor also has a slot for a perimeter bar. Hot dip galvanized for corrosion protection. Built in anti-shear feature with feet.

Part No.	Description	Length (mm)	Pack Qty
2ELAWF	2.5 tonne	100mm	25
7ELAWF	7 tonne	114mm	10
10ELAWF	10 tonne	161mm	5

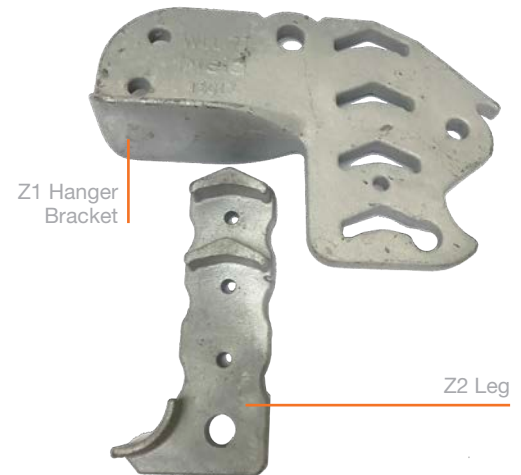


ZEUS

Zeus has been developed as a cost-effective combined support and lifting bracket for flange hung 'Double Tee' and 'Ribbed' precast floor units greater than 150mm deep.

It is the only hanger bracket to date that has been tested to the 'Jenson Protocol' which recognises the combined diaphragm and beam rotation stresses induced in flooring units under extreme loading.

Zeus is the best practice alternative to the "pigtail loop" detail which is hard to justify using rational analysis.



Zeus Key Features:

- Secure in plastic hinge zones and incorporates a life safety strap.
- Only bracket to have been tested and approved in NZ for seismic loads.
- Accommodates building movement such as creep, temperature and concrete shrinkage.
- Two part system with adjustable leg lengths to suit varying sizes of precast unit depths.
- Hot Dipped Galvanised for durability from corrosion.

Easily assembled in the mould and incorporates trimmer bar holes for reinforcing.

- Dual purpose reinforcing and lifting system, lifted with 7ELALE Hairpin clutch and uses 7ELARRF Recess Former.
- Working Load Limit of the anchor is 7 tonne as per the NZ Code of Practice.



Zeus Placement

Product Codes

Part No.	Description	Depth of Rib / Tee
ZEUSZ1	Z1 Hanger Bracket	>150mm -200mm
ZEUSZ2	Z2 Leg only	250 - 300mm
ZEUSZ3	Z3 Leg only	350 - 450mm

Recess Formers

Reid™ SwiftLift™ Recess Formers – Plastic

Part No.	Description	Pack Qty
2PR	2.5 tonne Plastic Former	500
5PR	5 tonne Plastic Recess Former	200
2PRFRE	2.5 tonne Plastic Reduced Recess Former	150



SwiftLift™ Recess Round Formers – Steel

Part No.	Description	Pack Qty
1SRFRO	1.3 tonne	1
2SRFRO	2.5 tonne	1
5SRFRO	5 tonne	1
1RR	Rubber Ring used with 1SRFRO	100
2RR	Rubber Ring used with 2SRFRO	100
5RR	Rubber Ring used with 5SRFRO	100



SwiftLift™ Recess Formers - Steel Articulated

Part No.	Description	Pack Qty
1SRFROART	1.3 tonne	1
2SRFROART	2.5 tonne	1
5SRFROART	5 tonne	1



Edge Lift Recess Formers - Rubber

Part No.	Description	Pack Qty
2ELARRF	2.5 tonne (Orange)	20
7ELARRF	7 tonne (Black)	20
10ELARRF	10 tonne (Blue)	1



SwiftLift Recess Formers - Rubber

Part No.	Description	Pack Qty
1RFRO	1.3 tonne	1
2RFRO	2.5 tonne	1
5RFRO	5 tonne	1
10RFRO	10 tonne	1
20RFRO	20 tonne	1
32RFRO	32 tonne	1



Assemblies



Face Lifting Assemblies

Part No.	Description	Anchor Load Group (T)	Panel Thickness (mm)	Pack Qty
5PCHAIR150	Face Lifting Assemblies (Compatible with SwiftLift Clutch range)	5	150mm	20
5PCHAIR175		5	175mm	15
7PAPCHAIR120	Plate Anchor Assemblies (Compatible with Hairpin/Plate Clutch range)	7	120mm	20
7PAPCHAIR150		7	150mm	20



Face Lifting Puddle-In Assemblies

Part No.	Description	Anchor Load Group (T)	Panel Thickness (mm)	Pack Qty
2FA120PR	SwiftLift™ Puddle-In Assemblies (Compatible with SwiftLift Clutch range)	2.5	150mm	25
5FA120PR		5	150mm	25
5FA145PR		5	175mm	25
7PA125PRF	Plate Anchor Puddle-In Assemblies (Compatible with Hairpin/Plate Clutch range)	7	150mm	25

NOTES:

SwiftLift™ Lifting Clutches

The Reid™ range of SwiftLift™ Clutches have been exclusively designed and approved for use with Reid SwiftLift Anchors and accessories. They are available in a range of Working Load Limits.

SwiftLift clutches are designed so that they cannot spontaneously disengage whilst the system is under load at any orientation, provided they are correctly connected to the head of the correct anchor in the recess. When the lift is complete and the load released, the SwiftLift Clutch is quickly and simply disengaged.

Reid SwiftLift Clutches are not designed to be used with other lifting products as there is no guarantee of compatibility. All Reid products have the Reid logo stamped on them for ease of identification.

Department of Labour Code of Practice dictates that clutches be checked by a competent person on a regular basis and a record should be kept of all checks.



SwiftLift Lifting Clutches

Part No.	Description	Pack Qty
1LE	1.3 tonne	ea
2LE	2.5 tonne	ea
5LE	5 tonne	ea
10LE	10 tonne	ea
20LE	20 tonne	ea
32LE*	32 tonne	ea

*Indent Only



Hairpin / Plate Anchor Clutches

Part No.	Description	Pack Qty
2ELALE	2.5 tonne	ea
7ELALE	7 tonne	ea
SJULC	10 tonne	ea



Accessories

SwiftLift™ Anchor Cover Plates

Designed to cover recess & anchors on precast faces.

Part No.	Description	Anchor load Group (T)	Pack Qty
5TILTCOVER	Paintable Plastic Covers for SwiftLift Anchors	5	200



Panel Plates

The use of colour coded plates allows easy identification to determine which precast elements belong to each job. Plates are all 180mm x 100mm

Part No.	Description	Pack Qty
FWPLATEBL	Blue Panel Plate	60
FWPLATEGN	Green Panel Plate	60
FWPLATEO	Orange Panel Plate	60
FWPLATEW	White Panel Plate	60
FWPLATEY	Yellow Panel Plate	60



Panel Pads

Eliminates staining and other issues associated with curing against precast elements.

Part No.	Description	Pack Qty
PANELPADS	Panel Pads 100mm x 100mm	500



NOTES:

reinforcing systems

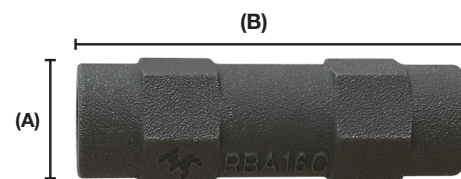
Reinforcing products from ramsetreid provide simple solutions for structural concrete connection, reducing both labour and material costs.

Using ReidBar and ReidBar components provides many benefits for Precasters and Builders including:

- Full range of threaded fittings for joining, anchoring and terminating.
- Simplifies the detailing and fixing of rebar.
- Reduces bar congestion problems; laps, cogs, eliminated in heavily reinforced areas.
- Eliminates cast-in starter bars to simplify transport and handling.

ReidBar™ Coupler

System to couple two ReidBar™ together. Commonly utilised for wet joints and panel to panel applications.

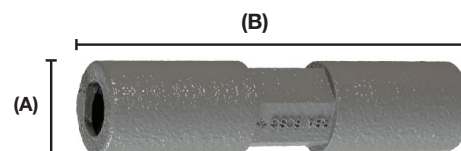


Cast SG Iron Range:

Part No.	Description	Outer Diameter (A) (mm)	Length (B) (mm)	Hex A/F (mm)	Pack Qty
RB12C	ReidBar Coupler for RB12	22	90	25	70
RBA16C	ReidBar Coupler for RBA16	30	102	30	45
RB20C	ReidBar Coupler for RB20	33	129	36	20
RB25C	ReidBar Coupler for RB25	43	180	45	20
RB32C	ReidBar Coupler for RB32	55	210	57	4
RB12CG*	ReidBar Coupler for RB12 (HDG)	22	90	25	70
RBA16CG	ReidBar Coupler for RBA16 (HDG)	30	102	30	45
RB20CG*	ReidBar Coupler for RB20 (HDG)	33	129	36	20
RB25CG*	ReidBar Coupler for RB25 (HDG)	43	180	45	20
RB32CG*	ReidBar Coupler for RB32 (HDG)	55	210	57	4

*Lead time applies for Hot Dip Galvanised components

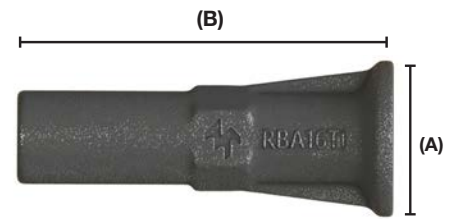
ReidBar™ Coupler Steel Range:



Part No.	Description	Hex A/F (mm)	Length (B) (mm)	Body Diameter (A) (mm)	Pack Qty
RB12CS	12mm Steel ReidBar Coupler	26	130	32	25
RBA16CS	16mm Steel ReidBar Coupler	26	136	32	24
RB20CS	20mm Steel ReidBar Coupler	32	148	35	22
RB25CS	25mm Steel ReidBar Coupler	38	193	42	10
RB32CS	32mm Steel ReidBar Coupler	52	242	60	4
RB12CSG	12mm Steel ReidBar Coupler (HDG)	26	130	32	25
RBA16CSG	16mm Steel ReidBar Coupler (HDG)	26	136	32	24
RB20CSG	20mm Steel ReidBar Coupler (HDG)	32	148	35	22
RB25CSG	25mm Steel ReidBar Coupler (HDG)	38	193	42	14
RB32CSG	32mm Steel ReidBar Coupler (HDG)	52	242	60	4

ReidBar™ Inserts

System to anchor ReidBar™. Commonly utilised for floor to wall or floor to panel connections.

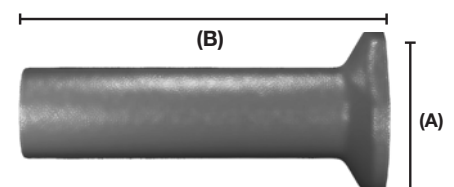


Cast SG Iron Range:

Part No.	Description	Foot Diameter (A) (mm)	Length (B) (mm)	Cross Hole Diameter (mm)	Pack Qty
RB12TI	ReidBar Insert for RB12	38	100	N/A	60
RBA16TI	ReidBar Insert for RBA16	50	118	N/A	30
RB20TI	ReidBar Insert for RB20	64	148	N/A	20
RB25TI	ReidBar Insert for RB25	80	191	N/A	6
RB32TI	ReidBar Insert for RB32	101	210	N/A	4
RB12TIG*	ReidBar Insert for RB12 (HDG)	38	100	N/A	60
RB16TIG*	ReidBar Insert for RBA16 (HDG)	50	118	N/A	30
RB20TIG*	ReidBar Insert for RB20 (HDG)	64	148	N/A	20
RB25TIG*	ReidBar Insert for RB25 (HDG)	80	191	N/A	6
RB32TIG*	ReidBar Insert for RB32 (HDG)	101	210	N/A	5
RB12RI	ReidBar Rebate Insert for RB12	38.75	78	14.5	60
RB16RI	ReidBar Rebate Insert for RB16	51	96	14.5	30

*Lead time applies for Hot Dip Galvanised components

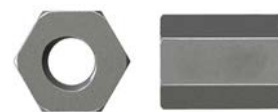
ReidBar™ Inserts Steel Range:



Part No.	Description	Foot Minor Diameter (A) (mm)	Length (B) (mm)	Body Diameter (mm)	Pack Qty
RB12TIS	12mm Steel ReidBar Threaded Insert	37	101	22	60
RBA16TIS	16mm Steel ReidBar Threaded Insert	53	118	30	25
RB20TIS	20mm Steel ReidBar Threaded Insert	68	149	35	10
RB12TISG	12mm Steel ReidBar Threaded Insert (HDG)	37	101	22	60
RBA16TISG	16mm Steel ReidBar Threaded Insert (HDG)	53	118	30	25

ReidBar™ Nut

System to fix and/or tighten ReidBar™.

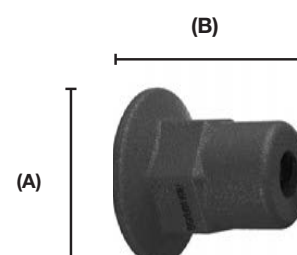


Part No.	Description	Length (mm)	Hex A/F	Hex A/C	Pack Qty
RB12N	ReidBar Nut for RB12	40	25	25	140
RBA16N	ReidBar Nut for RBA16	45	30	34	50
RB20N	ReidBar Nut for RB20	45	36	42	50
RB25N	ReidBar Nut for RB25	65	46	53	30
RB32N	ReidBar Nut for RB32	82	55	63.5	30
RB12NG*	ReidBar Nut for RB12 (HDG)	40	25	25	50
RBA16NG*	ReidBar Nut for RBA16 (HDG)	45	30	34	50
RB20NG*	ReidBar Nut for RB20 (HDG)	45	36	42	50
RB25NG*	ReidBar Nut for RB25 (HDG)	65	46	53	30
RB32NG*	ReidBar Nut for RB32 (HDG)	82	55	63.5	30

*Lead time applies for Hot Dip Galvanised components

ReidBar™ Steel Flange Nut

End anchorage solution using ReidBar™.



Part No.	Description	Foot Diameter (A) (mm)	Length (B) (mm)	Body Diameter (mm)	Pack Qty
RB12FNS	12mm Steel ReidBar Flange Nut	39	50	22	TBA
RBA16FNS	16mm Steel ReidBar Flange Nut	58	50	35	40
RB20FNS	20mm Steel ReidBar Flange Nut	67	50	35	32
RB25FNS	25mm Steel ReidBar Flange Nut	83	80	42	12
RB32FNS	32mm Steel ReidBar Flange Nut	92	95	55	8
RBA16FNSG	16mm Steel ReidBar Flange Nut (HDG)	58	50	35	40
RB20FNSG	20mm Steel ReidBar Flange Nut (HDG)	67	50	35	32
RB25FNSG	25mm Steel ReidBar Flange Nut (HDG)	83	80	42	12
RB32FNSG	32mm Steel ReidBar Flange Nut (HDG)	92	95	55	8

NOTES:

ReidBar™ Wing Nut

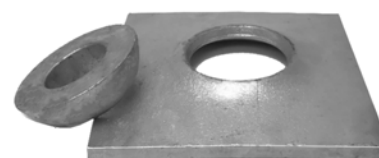
System to fix and/or tighten ReidBar™.
Commonly utilised for formwork systems.



Part No.	Description	Hex A/F	Height (mm)	Overall Diameter (mm)	Pack Qty
RB12WN	ReidBar Wing Nut for RB12	22	40	58	100
RBA16WN	ReidBar Wing Nut for RBA16	30	51	98	30

ReidBar™ HDG Domed Plates & Spherical Washers

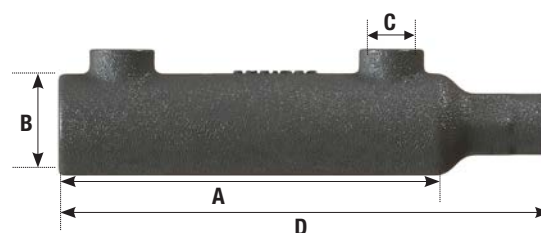
System for ground anchoring.



Part No.	Description	Dimensions (mm)	Pack Qty
BPLATE20100G	ReidBar Domed Base Plate for RB16/20 (Gal)	100 x 100 x 6.3 x 14 High	50
RB20SWG	ReidBar Spherical Washer for RB16/20 (Gal)	50 OD x 24 ID x thick	100
BPLATE32150G	ReidBar Domed Base Plate for RB25/32 (Gal)	150 x 150 x 10 x 24 High	
RB32SWG	ReidBar Spherical Washer for RB25/32 (Gal)	70 OD x 37 ID x 24 thick	50
20FSW	ReidBar F/Washer For RB20 (Gal)	50 x 50 x 3 x 25 hole	

ReidBar™ Grout Sleeve

ReidBar Grout Sleeves offer a precast panel on panel splicing solution. Unlike conventional lapping utilising drossbach system, ReidBar Grout Sleeves rely on significantly shorter embedment depths, and therefore reducing onsite hazard caused by long protruding starter bars.



Part No.	Suits	(A) Max Internal Embedment	(B) Body ID (mm)	(C) Internal Grout Hole Diam (mm)	(D) Tube Length (mm)
RB12GS	RB12	150	28-40	21	200
RBA16GS	RB16	190	32	21	240
RB20GS	RB20	224	40	21	290
RB25GS	RB25	274	48	21	360
RB32GS	RB32	320	55	26	445

ReidBar™ fittings are accompanied by various accessories that made their installation easier.



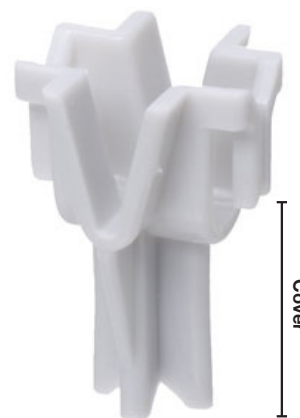
This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Reinforcing Support Chairs

Mesh Chair

The mesh chair is designed to clip easily to the intersection of the mesh, providing greater strength and stability. Mesh chairs can be used with extensions for added height if required.

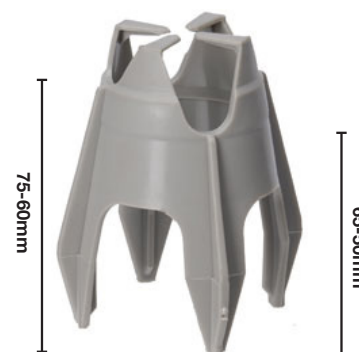
Part No.	Cover (mm)	Pack Qty
MESH20	20	100
MESH25	25	100
MESH30	30	100
MESH35	35	100
MESH40	40	100
MESH50	50	100
MESH60	60	100
MESH65	65	100
MESH75	75	100



Panel Chair

Designed to support single layered mesh. The easy push on clip mechanism allows the chair to swing into a vertical position when lowering the mesh into the form and suits all mesh sizes including N12 bars. Dimples located at the base of the legs ensures minimum exposure.

Part No.	Cover (mm)	Pack Qty	Pallet Qty
BCPANEL3040	30/40	100	5000
BCPANEL5060	50/60	100	5000
BCPANEL6575	65/75	100	5000



NOTES:

Bar Chair

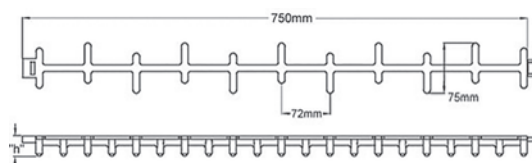
Fast Clip Bar Chairs accommodate bar sizes from 4mm to 20mm. Each chair is identified by cover and can be used with extensions for added height and stability if required.

Part No.	Cover (mm)	Pack Qty
FCB25	25	100
FCB30	30	100
FCB35	35	100
FCB40	40	100
FCB45	45	100
FCB50	50	100
FCB75	75	100



Bar Deck Rail

The 750mm long plastic deck rail is a continuous spacer for formwork applications, with sets of vertical legs at approximately 75mm centres and another central leg in between the sets; the deck rail is strong and stable, yet provides minimum exposure.



Part No.	Height "h" mm	Pallet Qty
BDR030	30	1300
BDR035	35	1300
BDR040	40	1100
BDR065	65	800
BDR100	100	500



NOTES:

precast connections

Not only do Reid offer an extensive range of connections to suit almost every application, but also a range that delivers consistent reliability and quality, supported with technically superior design information.

Extensive research, development and testing are invested in all Reid Threaded Inserts with performance data derived and verified through hundreds of tests, utilising both in-house and independent testing facilities.

Metric Threaded Inserts

Reid™ Threaded Metric Inserts (TIMS) are cast into concrete to provide fixing points for attachments and structural members. The TIM is the original Reid design with a large foot at the base of the insert (see nominal dimensions).

Made from High grade carbon steel, Reid recommends the Gold passivated zinc coating to AS1789:2003 for internal applications and Hot Dip Galvanised for external applications.

Metric Threaded Insert Applications:

- Medium to heavy duty applications.
- Use in near or far face applications with our range of accessories
- May be used with small rebar for fixing to mesh.
- Structural connections.
- Curtain wall and panel facades.
- Temporary precast panel bracing points.



Metric Threaded Inserts Key Features:

- No cross bar required to develop rated capacity.
- Resists dynamic loading.
- Plastic nail plates simplify installation and minimise fouling during the concrete pour.

Metric Threaded Insert Advantages:



Easy and simple to use

- Improved security and reliability for slip free anchorage.
- No cross bar required to develop rated capacity.

Product Codes

Part No.	Description	Thread Size Diameter	Cross Hole Diameter	Thread Depth	Anchor Length	Pack Qty
TIM16X75	Zinc Passivated TIMS	M16	11/11.6mm	35mm	75mm	25
TIM20X75		M20	15/15.5mm	32/33mm	75mm	50
TIM10X40G	Galvanised TIMS	M10	8.8/9.2mm	15mm	40mm	100
TIM12X50G		M12	9.1/9.5mm	20mm	50mm	100
TIM16X75G		M16	11/11.6mm	35mm	75mm	25
TIM20X75G		M20	15/15.5mm	32/33mm	75mm	50
TIM20x120G#		M20		47mm	120mm	20
TIM24X100G		M24	20/20.5mm	45mm	90mm	20

*Stainless Steel Inserts available on request. # Made from Ductile Cast Iron

Metric Threaded Insert Accessories

Reid Metric Plastic Nail Plates

For use with timber formwork.

Part No.	To Suit	Pack Qty
NP12	M12	100
NP16	M16	100
NP20	M20	100
NP24	M24	100



Metric Plastic Glue On Nail Plates

Glue on nailing plates are used to attach ferrules to steel formwork or casting beds, where screwing or drilling is not desired. Designed to be used with Reid Double Sided Spots, they have a recess on the bottom side that allows for easy removal after the panel has been lifted.

Part No.	To Suit	Pack Qty
NP10*	M10	100
NP12GLUE	M12	100
NP16GLUE	M16	100
NP20GLUE	M20	100

Double Sided Spots to Suit:

Part No.	Diam Pack	Pack Qty
NPSPOT	58mm	100

*Note not Glue On in M10 size.



NOTES:

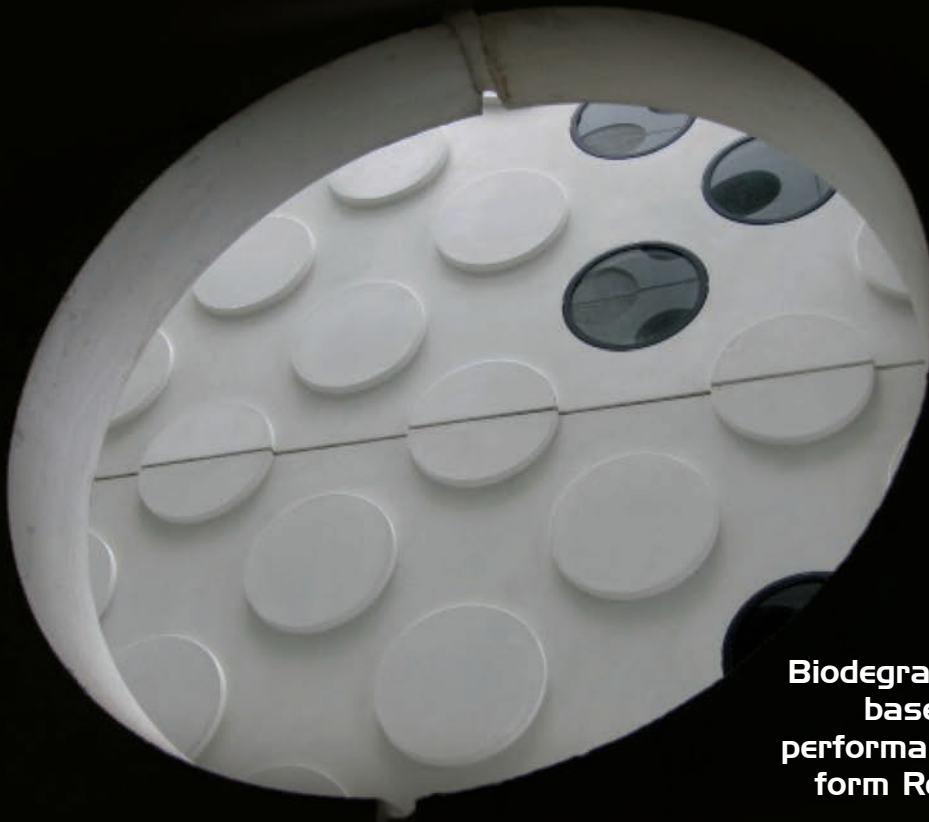
chemicals precast

Precast concrete construction demands chemicals to improve cycle times, clean and maintain formwork, and enhance concrete finishes.

The range of Precast Chemical Solutions from ramsetreid includes Release Agents, Sprayers, and Cleaning and Maintenance products to ensure overall costs are reduced whilst producing the highest quality Precast components.

Partnering with Nox-Crete, a leading manufacturer of Precast Chemical products, ramsetreid offers trusted chemical solutions through performance-driven products.

As part of ramsetreid, our Precast customers have access to the Ramset™ Chemical Anchoring range including Epcon™ and ChemSet™ Injection Adhesives, the leading Chemical Anchoring brands in Australia and New Zealand due to high quality, reliability and versatility.



Biodegradable, water based, maximum performance concrete form Release Agent

NOX-CRETE Bio-Nox

Biodegradable, water based, maximum performance concrete form Release Agent.

Nox-Crete BIO-NOX is a water-based, 100% biodegradable high performance form Release Agent which chemically reacts with concrete to produce a slippery soap-like film that positively prevents bonding on concrete to form surfaces.

The formulation allows a high quality Precast finish, across several types of form surfaces, including highly textured architectural panels.

The 100% biodegradable formulation is free from conventional form oil, diesel oil or kerosene. It is a vegetable oil based emulsion is ideal for use on expensive rubber or latex formliners, as it does not degrade the surface from repeated use, producing beautiful, bright architectural panels.

It also reduces the likelihood of skin or odour irritations that can occur with petroleum based Release Agents.

Application with a Nox-Crete Excel or Perfect Sprayer system is highly recommended to get even application coverage and a quality result.



Bio-Nox provides a clean crisp, clean architectural finish to concrete surfaces

Features & Benefits

- Water Based
- Combines methyl esters derived from corn and soybean oil with organic fatty acids
- Will not harm rubber or latex formliners
- Produces beautiful, bright white and void-free cast concrete surfaces
- Helps keep forms clean
- Incorporates a rust inhibitor to prevent flash rusting of steel forms
- Excellent emulsion stability
- Also incorporates an antioxidant to minimize the oxidation of applied films
- Readily biodegradable

Uses

- Specifically designed for producing bright white architectural wall panels free of blemishes and discoloration
- Smooth, non-absorptive form surfaces
- Ideal for steel, fiberglass, plastic, rubber, latex forms and formliners and all non-absorptive overlaid forms

Application Guidelines

For best results, it is recommended to apply Bio-Nox using the Nox-Crete Excel or Perfect spray system.

Form Surface or Concrete Finish Type	Spray tip	CF Valve	Coverage rates
Non-Absorptive	800067	40psi	50 - 60 m²/L
Absorptive	8001	40psi	20 - 25 m²/L

Packaging & Product Codes

Part No.	Size	Pack Qty
NOXBIO20	20L	each - Pail

Related Products

Part No.	Description	Pack Qty
NOXEXCEL	Nox-Crete Excel 130 Pro Sprayer	each – 19L
NOXPERFECT	Nox-Crete Perfect Form Sprayer	each – 15L
NOXCFVALVE40	Nox-Crete CF Valve 40 psi (Green/Blue)	each
NOXTIP8001	Nox-Crete Teejet Spray Tip 8001	each
NOXTIP800067	Nox-Crete Teejet Spray Tip 800067	each



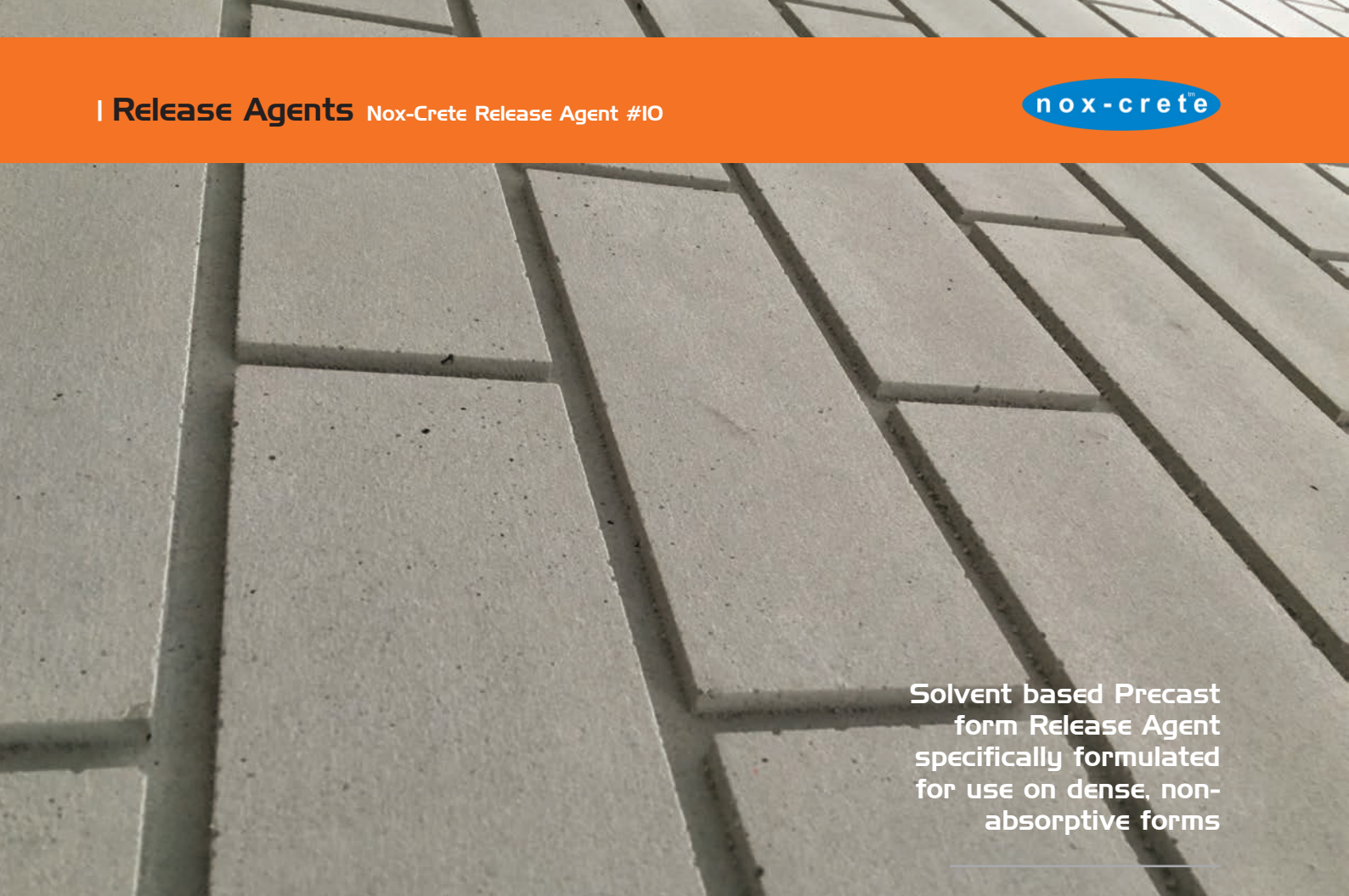
**100% biodegradable formulation
free of conventional form oil,
diesel oil or kerosene.**

Nox-Crete Excel spray system



NOTE:

Using the Nox-Crete Excel sprayer is highly recommended to get the full potential of Bio-Nox. The sprayer recommendations have been derived specifically based on the products' material properties to ensure even coverage resulting in an exceptional and economical result.



Solvent based Precast
form Release Agent
specifically formulated
for use on dense, non-
absorptive forms

NOX-CRETE Release Agent #10

Maximum performance Precast Release Agent for consistently high quality finishes.

Nox-Crete Release Agent #10 (RA#10) reacts chemically with the alkalis in concrete to form a soapy film which allows trapped air and excess water to escape during vibration, minimizing surface voids and providing a smooth, uniform concrete finish. When used on steel, it reacts with the iron present on the form surface to form a film that retards rust formation between pours.

It is ideally suited to high volume Precast works with excellent reproducibility of quality Precast finishes for wall panels, architectural wall facades, high relief textured panels as well as all other general Precast construction elements.

The solvent is chemically engineered to be effective even when applied via a very fine spray mist which allows very high coverage rates and excellent economy to busy Precast yards. The inherent rust inhibitor in the formulation suits high cycle frequency, keeping forms in excellent condition for longer and reducing build-up on the form surface. Application with a Nox-Crete Excel Sprayer system is highly recommended to get very high efficiency coverage rates, resulting in an excellent finish.



Release Agent #10 used with
optimum spray application

Features & Benefits

- Solvent based
- Incorporates a blend of very fast-drying solvents
- Produces architectural, bright white void-free concrete surfaces
- Minimizes surface air voids (bugholes)
- Performs extremely well on steel and fiberglass forms
- Helps keep forms clean – breaks down and removes hardened concrete buildup through regular use
- Incorporates a rust inhibitor to prevent flash rusting of steel forms
- Has a high flash point (>60°C)

Uses

- Wet cast applications requiring an architectural concrete appearance
- Smooth, non-absorptive form surfaces
- Ideal for steel, fiberglass, plastic and non-absorptive overlaid plywood forms

Application Guidelines

For best results, it is recommended to apply Release Agent #10 using the Nox-Crete Excel or Perfect spray system.

Form Surface or Concrete Finish Type	Spray tip	CF Valve	Coverage rates
Non-Absorptive	800067	40psi	60-75 m²/L
Absorptive	8001	40psi	25-35 m²/L

Packaging & Product Codes

Part No.	Size	Pack Qty
NOXRA1020	20L	each - Pail
NOXRA10200	200L	each - Drum
NOXRA101000	1000L	Pod/Tote*

* Special order/ non-stocked item – lead times apply. Contact your ramsetreid representative for further information.

Related Products

Part No.	Description	Pack Qty
NOXEXCEL	Nox-Crete Excel 130 Pro Sprayer	each – 19L
NOXPERFECT	Nox-Crete Perfect Form Sprayer	each – 10L
NOXCFVALVE40	Nox-Crete CF Valve 40 psi (Green/Blue)	each
NOXTIP8001	Nox-Crete Teejet spray tip 8001	each
NOXTIP800067	Nox-Crete Teejet spray tip 800067	each



High-performance form release agent creates architectural-grade surfaces.

Nox-Crete Excel spray system



NOTE:

Using the Nox-Crete Excel sprayer is highly recommended to get the full potential of RA#10. The sprayer recommendations have been derived specifically based on the products' material properties to ensure even coverage resulting in an exceptional and economical result.

NOX-CRETE Blast-Off

A powerful water based cleaning agent formulated to dissolve concrete buildup on heavy industrial equipment.

Features & Benefits

- Contains a concentrated organic acid derived from sugar cane and sugar beets
- Extremely fast-acting formula quickly dissolves concrete splatter and hardened build-up
- Small molecular size allows deep penetration into the heaviest build-up
- Water based and readily biodegradable (90% in 7 days)
- Contains no mineral acid and is odour free
- Produces a thick, rich foam that clings to vertical and overhead surfaces for increased effectiveness
- Will not corrode steel, aluminium, magnesium, copper or damage plastic, fiberglass or rubber surfaces
- Requires use of a Nox-Crete Pump Foamer
- Vivid pH-sensitive purple dye indicates product is still working

Uses

- Use on aluminium, steel, plastic, fiberglass, glass, rubber or painted metal surfaces
- Removes build-up and splatter on drum mixers, forms, paving machines, concrete pumps, screeds and more
- Can also be used to remove mortar splatter, efflorescence and other calcium based salt deposits from concrete masonry surfaces
- Excellent for small hand tools as well as heavy industrial concrete equipment

Product Information

Nox-Crete BLAST-OFF contains powerful naturally derived molecules which are extremely effective at dissolving concrete build-up and splatter without damaging or corroding exposed steel, chrome, aluminium or electrical components. Eliminates costly damage resulting from the use of sandblasters or chipping hammers, increasing the life of expensive capital equipment. It is water based and readily biodegradable allowing it to be used and disposed of safely on several work sites.

Application Guidelines

Ready to use formulation. Best results are achieved by using a pump foamers such as Nox-Crete Pump Foamer. This will produce a thick, rich foam that will cling to the steel surface allowing the product to work effectively. The pH sensitive dye indicates that BLAST-OFF is actively dissolving hardened concrete buildup, turning white when finished, allowing the user to see when the reaction is neutralized and can be easily rinsed off.

Remove softened concrete with a garden type spray nozzle of a pressure washer for removal of heavier buildup. Occasionally re-application or longer soaking times may be required for particularly heavy build-up. For extended rust protection, allow steel forms to dry and apply two coats of Nox-Crete FORMGUARD TJ to protect steel forms from rusting for up to six months.



Before application



After application

Packaging & Product Codes

Part No.	Size	Pack Qty
NOXBLAST20	20L	each - Pail

Related Products

Part No.	Desc	Pack Qty
NOXFOAMPUMP	Nox-Crete Pump Foamer	each
NOXFRMGRD20	Nox-Crete Formguard TJ Plus 20L	each

NOX-CRETE Formguard Tj Plus

High performance corrosion protection and inhibitor for steel forms.

Features & Benefits

- Excellent rust corrosion inhibitor for steel forms and equipment
- Reacts instantly with surface moisture, forming a waxy, protective coating
- Physically and chemically bonds to the steel surface
- Protects steel from corrosive effects of exterior exposure for up to 6 months
- Highly water resistant even to the corrosive effects of salt water mist
- Easy to apply with a spray pump, roller or brush
- Dries rapidly – approximately 30 mins for light coatings

Uses

- All Precast applications for the protection of steel utility moulds
- Ideal for outdoor Precast operations and commercial and infrastructure project based mobile Precast sites
- Protects large formwork moulds such as pre-stressed single and double tee beams from rust corrosion during storage

Can be used as a high performance form release agent on moulded fiberglass column forms, dome and other geometrically challenging form shapes



Untreated



Treated

Product Information

Nox-Crete FORMGUARD TJ Plus is a high performing corrosion protection and inhibitor which allows for steel forms to be stored for up to 6 months in exposed conditions with minimal deterioration. It reacts instantly with surface moisture to form a highly polymerized waxy coating that is both physically and chemically welded to the surface.

Its robust film technology makes it ideal for use in storing large outdoor steel forms and forms incorporating complex geometries, curves and/or large vertical surfaces. The polymerized film is highly water resistant even to the corrosive effects of salt water mist. A must for asset maintenance for Precast operations and large projects or mobile sites where forms may need to be stored outdoors for long periods of time.

Application guidelines

Ready to use formulation. Forms should be thoroughly cleaned and dried before applying FORMGUARD TJ Plus. Nox-Crete BLAST-OFF and Nox-Crete KEM-EX-IT are recommended for adequate cleaning and preparation of the form. Apply with a sprayer, brush or roller. Spraying is recommended for large surfaces. Typical application rate is 25 – 35 m² per litre of product. For abrasive blasted metal and other porous surfaces, apply a second coat at the same coverage rate after 1-2 hours drying.

Packaging & Product Codes

Part No.	Size	Pack Qty
NOXFRMGRD20	20L	each - Pail

Related Products

Part No.	Desc	Pack Qty
NOXBLAST20	Nox-Crete Blast-Off Concrete Removal 20L	each
NOXKEMPLUS20	Nox-Crete Kem-Ex-It Plus Rust Removal 20L	each

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

[illegible]

NOX-CRETE SPRAYER SYSTEMS

High quality, robust sprayers to maximise chemical delivery and performance.

Sprayer System Selection Guide

	Sprayer System	Product	Spray Tip	Environment	Application
Precast	NOXEXCEL	BIO-NOX, RA #10	800067	Enclosed Precast facility	Steel Beds and formwork Architectural formwork
		BIO-NOX, RA #10	80005	Enclosed Precast facility	Semi-absorbent formwork
	NOXPERFECT	BIO NOX, RA #10 FORMGUARD TJ	8001	Semi-exposed/ Outdoor Precast facility	Steel Beds / Railway Sleepers/ Frequent stripping/ semi-absorbent formwork
Maintenance	NOXPERFECT	FORMGUARD TJ	80005 8001	Indoor/ Outdoor	Steel formwork
	NOXFOAMPUMP	BLAST-OFF, KEM-EX-IT	N/A	Indoor/ Outdoor	Formwork and concrete equipment

NOX-CRETE Excel Precision Form Sprayer

Product Information

The Nox-Crete EXCEL sprayer is a heavy duty stainless steel sprayer and is highly recommended for the application of Nox-Crete chemicals to get a superior surface release and finish in Precast applications. The sprayer comes equipped with high quality and robust parts designed specifically for the delivery of chemicals in heavy duty manufacturing environments. The high-pressure dispersion of release agents ensures an excellent finish free from chemical staining and streaks.

Features & Benefits

- 20L stainless steel tank
- Pressurizes up to 8.9 bar (130 psi)
- Chemical-resistant seals and gaskets
- Wide mouth easy fill tank
- 1.5 m chemically resistant hose with swivel attached to the trigger valve connector
- High-capacity in-line, 200-mesh liquid filter
- 2.8 bar (40 psi) control flow (CF) valves maintain constant pressure for consistent spray flow

Uses

- Application of Nox-Crete form release agents.
- Delivery of highly dispersed chemicals onto steel beds
- Allows economical coverage on non-porous surfaces

Produces excellent form face finish, free from chemical staining and streaks



NOX-CRETE Perfect Concrete & Form Sprayer

Product Information

The Nox-Crete PERFECT Concrete and Form sprayer is a heavy duty stainless steel sprayer for Precast, tilt-up and concrete construction sites. It can be hand pumped or air-charged to 6.2 bar (90 psi), making it a versatile and robust sprayer on large construction sites and tilt up yards for the delivery of form release agents and chemical bond-breakers.

Features & Benefits

- Gun-style handle and trigger
- 2.8 bar (40 psi) control flow (CF) valves maintain constant pressure for consistent spray flow
- Heavy-duty, 15L stainless steel tank
- 1.5 m (5 ft.) chemical-resistant hose with swivel

Uses

- Application of Nox-Crete form release agents and bond-breakers
- Recommended for Precast and tilt up yards, as well as construction sites
- Can be hand pumped or air charged



NOX-CRETE Hand Pump Foamer

Product Information

The Nox-Crete Hand Pump Foamer is ideal for the application of cleaning and maintenance chemicals such as Nox-Crete BLAST-OFF and Nox-Crete KEM-EX-IT Plus. It produces a thick, rich foam which clings to vertical surfaces allows greater dwell time on the surface of the form, allowing the chemicals to produce excellent results.

Features & Benefits

- Delivers thick, rich foam to maximize Blast-Off & Kem-Ex-It Plus effectiveness by extending dwell time, even on vertical surfaces
- Viton® seals for extended durability
- Wide mouth and funnel cup for easy filling
- Heavy-duty polypropylene, 7.5L (2.0 gal) tank and gun assembly



Related Products

Part No.	Description	Pack Qty
NOXCFVALVE40	Nox-Crete CF Valve 40 psi	each
NOXTIP8004	Nox-Crete Teejet spray tip 8004	each
NOXTIP8001	Nox-Crete Teejet spray tip 8001	each
NOXTIP80005	Nox-Crete Teejet spray tip 80005	each
NOXTIP800067	Nox-Crete Teejet spray tip 800067	each
NOXSERVICE-PF	NoxPerfect Spare Part kit	each
NOXSERVICE-EX	NoxExcel Spare Part kit	each

Packaging & Product Codes

Part No.	Size	Pack Qty
NOXEXCEL	20L	each
NOXPERFECT	15L	each
NOXFOAMPUMP	7.5L	each

NOTE:

Using the complete nox-crete sprayer system is highly recommended to achieve the full potential of nox-crete form release agents and maintenance chemicals. The sprayer recommendations have been derived specifically based on the product material properties to ensure an exceptional and economical result.

SEALANTS & ADHESIVES

Essential preparations, repair and installation chemicals for the full precast solution.

Formwork

Form Seal Silicone Sealant

Neutral cure, quick skinning, low adhesion silicone for all formwork requirements.

Part No.	Description	Pack Qty
FMSLG300	Formseal Silicone Sealant Cartridge	300ml
RCA1	Caulking Gun for 300ml Cartridge	each



Foams

RamsetTM Expanding Foams for sealing around formwork.

Part No.	Description	Pack Qty
FMFLG500	Fomofill Self-Expanding Gap Filling Foam	500g
FMFLG750		750g
FMPLG750	Fomoplus 750ml Canister	750g
FMSVM500	Fomo Aerosol Solvent Cleaner for FomoPlus Applicators	500ml
FMPLGU300	Fomoplus Applicator Gun Metal	each



Repair

Epoxy Repair

Tough, durable and specially formulated for strong bond to concrete.

Part No.	Description	Pack Qty
EPCMEA-2L	Epoxy Repair Mortar	2L each
EPCMEA-8L	Epoxy Repair Mortar	8L each
EPCMEA-20L	Epoxy Repair Mortar	20L each



Cementitious Grouts

Part No.	Description	Pack Qty
RPGMP20	Premier Grout	20kg Bag
RPGHS	PoziFlo Grout High Strength	20kg Bag



Installation

CHEMSET™ XC² 801 XTREM™

High bond, quick setting adhesive with seismic approval for post-installed anchor studs.

- Sustained loading
- Quick setting
- Approved for cracked concrete and seismic applications
- High bond strength

Part No.	Description	Pack Qty
C801X750	ChemSet™ 801 Xtrem™ XC2 Vinyl Ester	750ml
ISNE	Mixing Nozzles	5/pack
CUAP	Applicator Universal Applicator for Ramset™ Injection Adhesives	each



EPCON™ C6

Extra heavy duty anchoring of reinforcing bar and threaded studs into solid concrete and stone. Quick setting for improved productivity. Structural reinforcing bar connections in slabs, columns, beams and walls. Structural steel columns, raker angles, seating.

- Pure Epoxy – high bond strength adhesive
- Ideal for reinforcing bar connections in solid concrete
- Cures in 3 hrs (@ 20° C)
- Quick loading time maximises productivity

Part No.	Description	Pack Qty
C6EF-600	Epcon™ C6 EF	600ml
ISNE	Mixing Nozzles	5/pack
CUAP	Applicator Universal Applicator for Ramset™ Injection Adhesives	each





formwork system

The Spartan™ Formwork System brings innovative, smart technology to the pre-cast yard which allows imagination the freedom of full expression in the physical structure

Central to the Spartan™ Formwork System is the Titan™ Magnet Clamp and Spartan™ Sideform which provide unparalleled levels of accuracy, flexibility, efficiency and safety to pre-cast yards.

Smarter.

Easier.

Stronger.

Safer.

Spartan™ System

Spartan is the complete Precast Formwork solution.

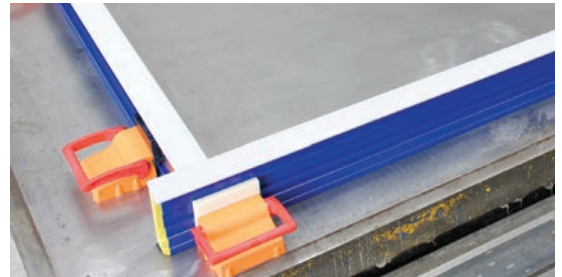
The Spartan Formwork System brings innovative, smart technology to the precast yard and allows imagination the freedom of full expression in the physical structure.

Central to the Spartan™ Formwork System is the Titan™ Magnet Clamp and Spartan™ Sideform. Together, these products provide unparalleled levels of accuracy, flexibility, efficiency and safety to precast yards.



Smarter.

Spartan™ Sideform is the only system that enables precasters the flexibility of incremental changes in height with the simple change-over of capping.



Easier.

The Spartan™ Rubber Base Insert provides a silicone-free seal between the bed and formwork to prevent concrete bleed – eliminate the material and labour costs associated with the silicone application and removal processes.



Stronger.

Spartan™ Sideform is manufactured from ultra lightweight, high-grade 6082 and 6005A Aluminium Alloys which provides durability and strength. Spartan™ Sideform will not bend or buckle and can withstand job site use and abuse. The Titan™ Magnet Clamp is the industry's most powerful. It's ultra compact design saves space and enables precasters to maximise the working area of a steel bed.



Safer.

The Titan™ Precast Magnet Clamp's de-magnetising plate safely secures the magnet to prevent it from unexpectedly engaging on the steel bed – minimizing the risk of fingers or other limbs being caught under the magnet. Spartan™ Sideform's innovative aluminium design is significantly lighter than traditional steel formwork, improving OH&S and making it much safer to use.

Spartan™ Sideform

The patented Spartan Sideform is manufactured from a unique combination of composite materials and offers a multitude of benefits over traditional steel or wood formwork.

Lightweight: Spartan Sideform is significantly lighter than steel formwork reducing any potential OH&S issues.

Thick wall sections: Sideform will not bend or buckle. Thick wall sections provide for proper screw bite when fixing fittings to the sideform.

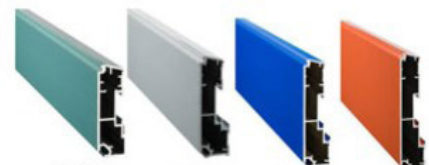
Centre line marking: Spartan Sideform provides a horizontal line-of-centre to assist with the alignment or positioning of fittings.

Easy to Clean: Powder coated Spartan Sideform can be easily cleaned and is protected against the elements.

- Magnet Securing Rail on the rear of Spartan Sideform does not allow concrete to become wedged and is easily removed.
- Sideform is colour-coded to reflect the variations in height.
- Spartan Sideform accommodates interchangeable top capping for height and profile flexibility.
- The Spartan Sideform also houses the unique Rubber Base Seal which prevents concrete bleed without the need for use of silicone

Product Codes

Part No.	Colour	Dimensions (LxH)	Weight
SF125	Green	5.8m x 125mm	17.69
SF150	Grey	5.8m x 150mm	19.95
SF175	Blue	5.8m x 175mm	22.38
SF200	Burgundy	5.8m x 200mm	24.65
SF250	White	5.8m x 250mm	33.90
SF300	White	5.8m x 300mm	38.60



Spartan™ Sideform

Rubber End Caps

Spartan End Caps provide a silicone free join between sideform sections, preventing concrete bleed through gaps in temporarily joined sideform.

Likewise, the Spartan End Caps plug the ends of the sideform, preventing any concrete from filling the internal cavities.

The Spartan Sideform End Caps now feature a taper or draft which makes stripping of both internal and external corners even easier!

Product Codes

Part No.	Suits
SFEC150	SF150 Sideform - Left and Right Pair
SFEC175	SF175 Sideform - Left and Right Pair
SFEC200	SF200 Sideform - Left and Right Pair
SFEC250	SF250 Sideform - Left and Right Pair
SFEC300	SF300 Sideform - Left and Right Pair



Spartan™ Sideform Capping

The Spartan Sideform Capping provides precasters with the flexibility to change sideform height and profile without the need to invest in entirely new sideform.

Available in 6 sizes ranging from +0mm to +25mm in 5mm increments, the Spartan Top Cap simply snaps on to the sideform, and snaps off as required.

Square – 12 x 12 Profile Product Codes



Part No.	Colour	Dimensions (LxH)
CAPSQ00	Light Grey	3m x 0mm

Chamfer – 12 x 12 Profile Product Codes



Part No.	Colour	Dimensions (LxH)
CAPC12	Grey	3m x 0mm
CAPC1205	White	3m x 5mm
CAPC1210	Green	3m x 10mm
CAPC1215	Burgundy	3m x 15mm
CAPC1220	Orange	3m x 20mm
CAPC1225	Navy	3m x 25mm

Spartan™ Rubber Base Inserts

Not all steel beds are perfectly flat and small gaps do appear between the underside of the sideform and the bed. These can cause concrete bleed or seepage. Traditionally, a bead of silicone is used between the sideform and the steel bed - a labour intensive and cost prohibitive exercise.

Product Codes

Part No.	Profile	Colour	Lengths
BIC12	12mm Chamfer	Black	6m
BICSQ	Square	Black	6m



Titan™ III Magnet Clamp

The Titan™ III patented Precast Magnet is Australia's strongest magnet for its size and is significantly smaller than other commercially available magnets:

Smaller and lighter: Weighs just 4.1kgs

Stronger: Up to 1,800kgs of pull-down force!

Rubber Base Skirt: Fully seals the underside of the housing to protect against dirt, metal particles and other contaminants. The Rubber Skirt also minimises the possibility of fingers or limbs being caught under the magnet.

De-magnetising Plate: Safely secures the magnet to prevent it from unexpectedly engaging against the steel bed.

Easy to Clean: Concrete does not stick to the magnet's plastic housing, making it quick and easy to clean.

Durable: The 8mm reinforced plastic housing is job site tough!

Reid™ recommends the use of water based release agents.



Product Codes

Part No.	Colour	Dimensions
MAG3	Orange/Red	140mmL x 155mmW x 85mmH

Titan™ Magnet Adapter Plates

The Titan range of Magnet Adapter Plates are the crucial link in the Spartan Formwork System, enabling quick and easy interchangeability of the magnet between sideform of varying size.

Product Codes

Part No.	Suits	Dimensions (LxWxH)
MAP125	SF125	145 x 20 x 85mm
MAP150175	SF150 & SF175	145 x 20 x 110mm
MAP200	SF200	145 x 20 x 160mm
MAP250	SF250	140 x 30 x 170mm
MAP300	SF300	140 x 30 x 220mm



Spartan™ Sideform Joiner Plates

Spartan Joiner Plates are used for temporary or semi-permanent joining of sideform and used for joining the Spartan Internal Corner system.

Part No.	Colour	Suits
SFJP150200	Silver	SF150, SF175, SF200, SF250, SF300



Titan™ Ball Lock Rail Strip

The Titan Ball Lock Rail Strip (BLRS) screws onto other sideform systems, adapting it for use with the Titan Magnet Clamp or with the Titan Screw Fix Bracket (TSFB).

Part No.	Colour	Dimensions (LxWxH)
BLRS	Yellow	155mm x 10mm x 42mm



Titan Screw Fix Bracket

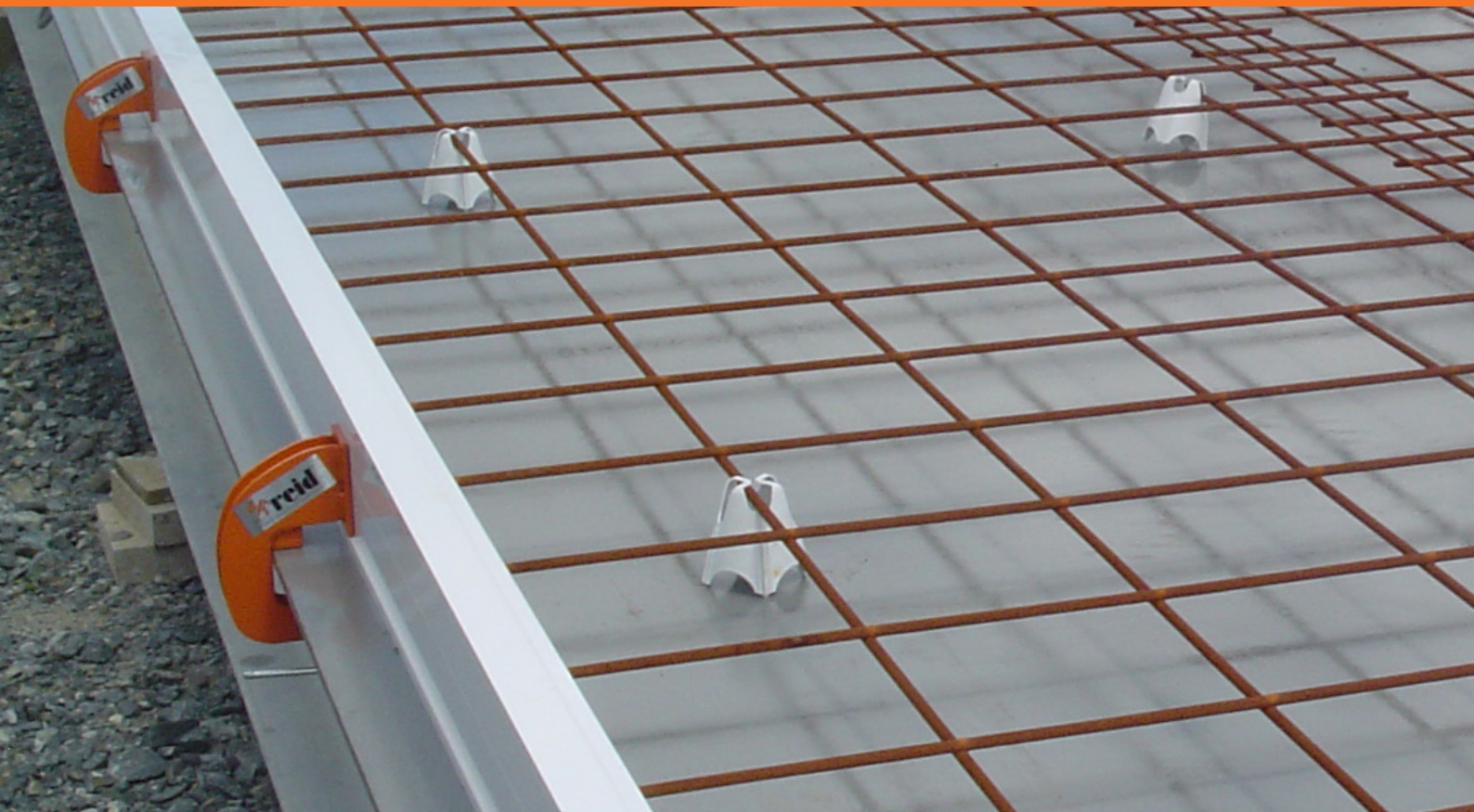
The Titan Screw Fix Bracket (TSFB) can be used as an alternative to the Titan Magnet Clamp and is ideal for semi-permanent set up of sideform.

The TSFB simply screws into the bed with the use of a single screw. The Magnet Adapter Plate is attached in the same manner as the Titan Magnet Clamp.

Part No.	Colour	Dimensions (LxWxH)
TSFB	Silver	75mm x 6mm x 10mm



NOTES:



SwiftForm™

SwiftForm is a compatible multi-component system specifically for high quality precast manufacture, and is designed to be used in conjunction with steel modular casting beds.

Its extruded epoxy-coated aluminium profile sections have a choice of two fillet sizes, magnets and a range of accessories to produce high quality panels with increased efficiency at lower costs and reduced labour time.



SwiftForm Features & Benefits

- Compatible multi-component system designed specifically for New Zealand's pre-cast and tilt up markets.
- Removes the need and cost of replaceable plastic fillet strips.
- Provides a far superior edge on finished panel.
- Substantially reduces boxing time and labour.
- Designed to be compatible with steel modular casting beds.
- Plastic plug can be cut out on-site to suit requirement, with standard mitre saw.
- Replaces need and cost of fasteners for clamping.



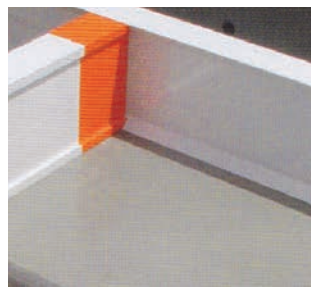
lightweight

SwiftForm™ aluminium formwork is significantly lighter than traditional steel formwork, improving OH&S and making it much safer to use.



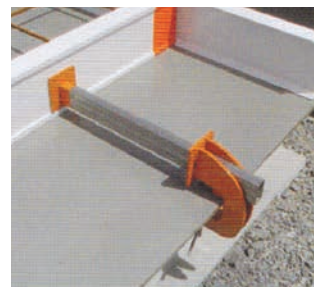
easy to use

The Reid™ SwiftForm™ system is quick and easy to use. Formwork is easily cut to size on site. Magnetic clamps are easily located on the rear of the sideform and can be quickly engaged and or disengaged to allow for positional adjustment.



accurate

SwiftForm™ End Caps can be easily attached or removed and are designed to perfectly fit the profile of the aluminium sideform, enabling fast and accurate set up of external corners.



versatile

The SwiftForm™ range of accessories including Internal corners, Clamping Extensions Arms and Angle Brackets provides unparalleled flexibility in design of both standard and non-standard panel configurations.

Aluminium Extruded Profile Section

Part No.	Description	Qty (per Length)	Pack Qty
SWREIDFRM150E	150mm Extruded Profile Section with Molded in Fillet with 15mm Fillet	6.04	10
SWREIDFRM150E-S	150mm Extruded Profile Section with Molded in 5mm radius.	6.04	10
SWREIDFRM175E	175mm Extruded Profile Section with Molded in 5mm radius.	6.04	10
SWREIDFRM200E	200mm Extruded Profile Section with Molded in Fillet with 15mm Fillet	6.04	10



SwiftForm Components

Part No.	Description	Pack Qty
SWFRMPLUG150	End Cap piece for 150 Extruded Profile	30
SWFORMCLP	G Clamp	ea
SWEXTARM1000	1000mm Extension Arm for G Clamp	ea



SwiftForm Magnet

Part No.	Description	Pack Qty
SW3000MAG	SwiftForm Magnet with Bridge 1300kg holding force	30
KPB2000-PTOOL	Magnet Clamp Release Lever	ea



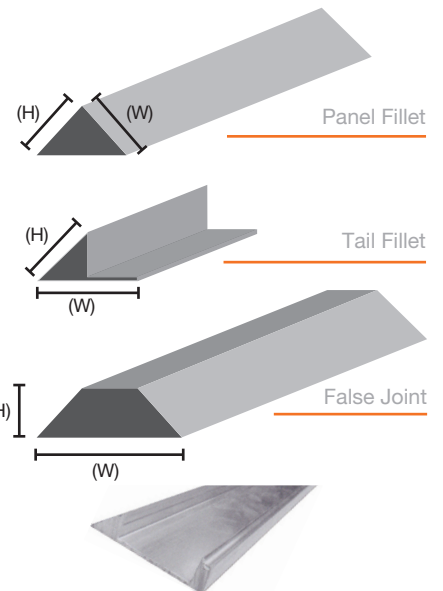
EdgeForm LVL

Part No.	Description	Lineal metres per pack	Recomm. Support spacing	Pack Qty (per bundle)
EFLVL146	146mm x 36mm x 6m lengths	240m	1250mm	32
EFLVL170	170mm x 36mm x 6m lengths	210m	1200mm	32
EFLVL200	200mm x 36mm x 6m lengths	180m	1150mm	24
EFLVL240	240mm x 36mm x 6m lengths	150m	1100mm	24



Reid™ Extruded Sections

Part No.	Description	Nom Size (W x H) (mm)	Length (mm)	Pack Qty
FILLET12S	Panel Fillet	12 x 12	3000	25
FILLET15S		15 x 15	3000	25
FILLET17S		17 x 17	3000	25
FILLET12T	Tail Fillet	12 x 26	3000	25
FILLET15T		15 x 37	3000	25
MOCK12	False Joint	12 x 40	3000	10
MOCK15		15 x 40	3000	10
MOCK 17		17 x 50	3000	10
SWFRMLVLCAP	Extruded Fillet Radius Designed to Match LVL Sections (Epoxy Finish)	XXXX	6.04m	10



Sealant

Part No.	Description	Pack Qty
FMSLG300	Silicone for Precasters - 300ml Cartridge	12



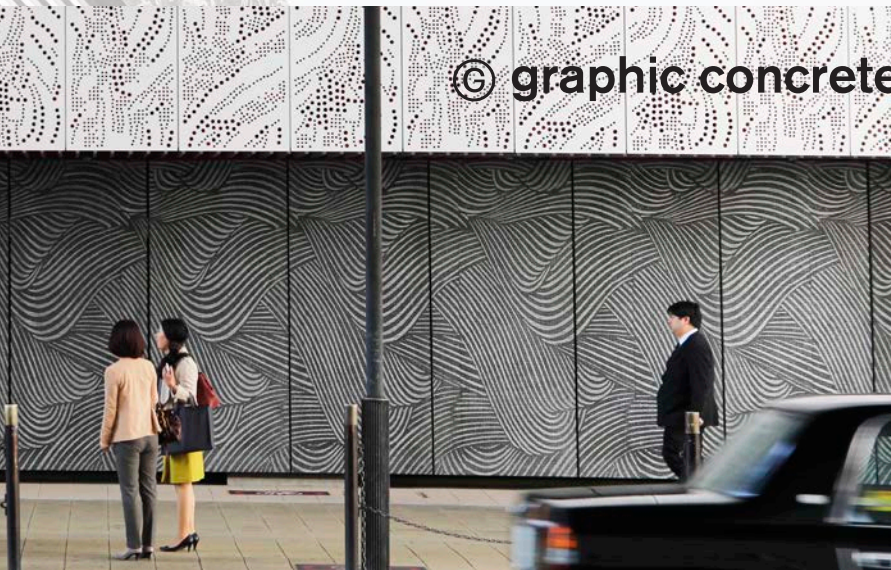
This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across its entire width, providing a template for writing or drawing. The margins are consistent on all sides.

architectural solutions

The ability of reinforced concrete to take virtually any shape that an architect can visualise is probably the single most important characteristic that has made it a dominant construction material of the modern age.

Ramsetreid Architectural Solutions bring together a stable of innovative architectural systems and technologies which are sustainable and cost-effective.





© graphic concrete®

graphic concrete® offers a new way to produce a patterned concrete surface. The patented technology involves applying a surface retarder to a special membrane.

The pattern on the concrete surface results from the contrast between the smooth face and the exposed aggregate finish.

Choose a pattern from an existing Graphic Concrete collection, or design your own.



For over 30 years, Fitzgerald Formliners has been developing and manufacturing the most technically advanced form liners.

Fitzgerald offers the most innovative products and latest manufacturing methods available.

From design through to the final product, Fitzgerald's attention to detail and quality engineering will guarantee a creative and cost-effective architectural finish for your next project.



Nirvana™ Insulated Concrete Panels combine the energy efficiency of insulation with the thermal mass and structural integrity of concrete, to produce buildings that are both comfortable and sustainable.

Nirvana insulated panels are commonly used for residential housing and commercial construction such as libraries, schools, prisons or office complexes.



graphic concrete

graphic concrete® offers a new way to produce a patterned concrete surface. The patented technology involves applying a surface retarder to a special membrane. The pattern on the concrete surface results from the contrast between the smooth face and the exposed aggregate finish.

Choose a pattern from an existing Graphic Concrete collection, or design your own.

© graphic concrete®

What is graphic concrete?

Graphic Concrete. provides technology for architects in the design process and for the prefabrication concrete industry to manufacture high-quality patterned concrete surfaces. Builders use these surfaces in industrially produced façades, floors and inner walls.

graphic concrete is a patented technology invented by interior architect Samuli Naamanka. The technology is a proven concept within the precast concrete industry.

An extensive number of completed projects from all over the globe demonstrate the vast range of designs in which architects can use graphic concrete: public, residential and industrial. When an architect decides to use graphic concrete in the design of a concrete surface, the visual quality of the traditional surface is radically altered.

How does graphic concrete work?

graphic concrete technology is the printing of a surface retarder on a special membrane. Concrete is cast on top of the membrane and the retarder slows the setting (hardening) of the concrete in the selected areas. The unset, softer concrete surface is high pressure washed, revealing the fine aggregate finish.

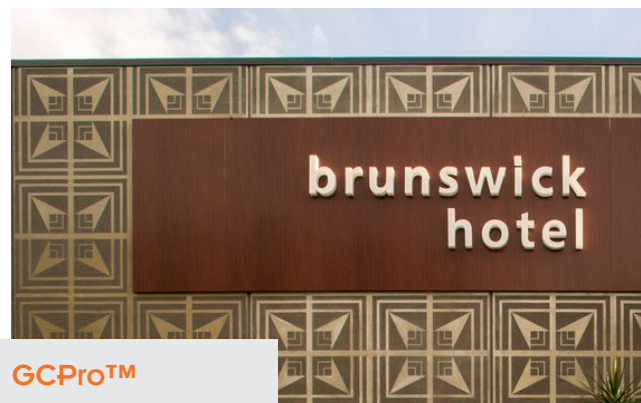
The actual pattern on the surface of the concrete then results from the contrast between the smooth finish and the aggregate. Colour pigments can be added to white cement and aggregates of different colours can be used.

Casting of the concrete elements takes place in a precast yard. The membranes printed by Graphic Concrete Ltd are available from Reid and are delivered to the precaster whom is specifically chosen for the project by the architect, developer or builder.

More freedom and options for architects: graphic concrete allows you to use concrete in new and stylish ways; add the desired effect to a concrete surface by selecting a pattern from one of the Graphic Concrete collections, or develop your own unique design.



GC Art&Design™



GC Pro™



GC Smooth™



GC Collection™

Graphic Concrete® Gallery

**Four different
ways to
use graphic
concrete.**

GCCollection comprises almost a hundred ready-made repeating patterns that can be customized and scaled according to the designer's wishes to create a unique look. Designers can also create their own repeating pattern, which we call GCPPro. To create large designs using photographs or other non-repeating patterns, we offer GC&Design. Finally, GCSmooth offers a beautiful velvety smooth and even concrete surface without a pattern.



GCCollection™



GCPPro™

GCPPro™ represents unique patterns designed by architects and designers. These patterns are exclusive, designed to match a specific project bringing the design all the way to the concrete surface.

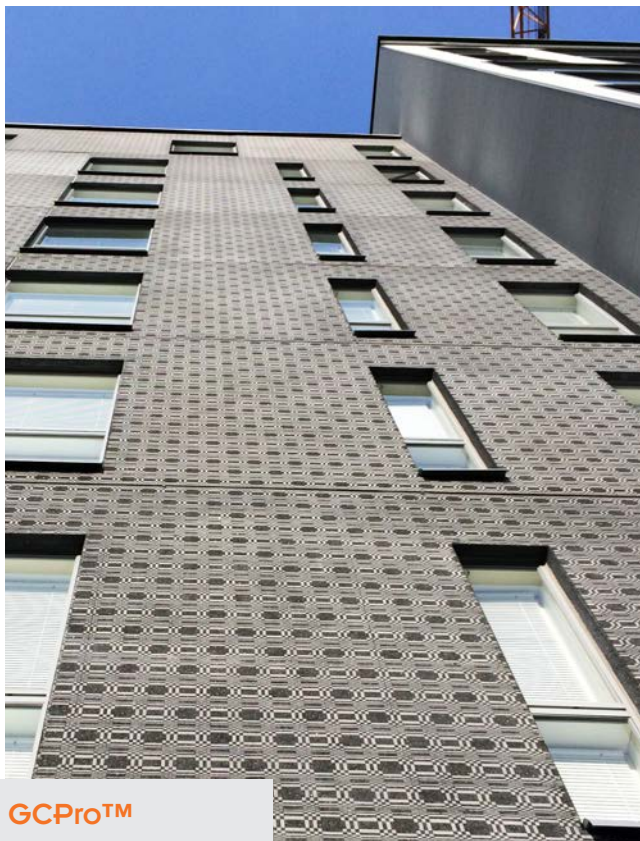


GCPPro™



GCArt&Design™

More freedom and options for architects: **graphic concrete** allows you to use concrete in new and stylish ways; add the desired effect to a concrete surface by selecting a pattern from one of the Graphic Concrete collections, or develop your own unique design.



GCPPro™



GCCollection™



GCCollection™

© **graphic concrete**®



fitzgerald formliners

For over 30 years, Fitzgerald Formliners has been developing and manufacturing the most technically advanced form liners. Fitzgerald offers the most innovative products and latest manufacturing methods available.

From design through to the final product, Fitzgerald's attention to detail and quality engineering will guarantee a creative and cost-effective architectural finish for your next project.



Fitzgerald Formliners

The Finest Architectural Concrete Begins With The Best Formliner. ramsetreid are proud Australian distributors of Fitzgerald Formliners.

Fitzgerald Formliners pride themselves on the design and manufacture of the best formliners in the industry, focusing their efforts solely on the continuous improvement on their products. Architects, engineers, designers and construction contractors have chosen Fitzgerald Formliners more often than any other company.

Fitzgerald's proprietary products - Vac-U-Form™, Vinylok®, FitzLok™ - are the most innovative formliners available in the

construction market. With more than 250 standard and custom patterns, Fitzgerald Formliners offer an unrivaled variety of design options and possibilities. These patterns include fluted ribs, fractured ribs, masonry, sandblast, stone, wood, geometric shapes and our unique brick gasket systems.

From conceptual design through to the final product, Fitzgerald Formliner's attention to detail, quality and engineering guarantees the most creative and cost-effective solution for your project.

Formliner Types



Vac-U-Form™

Single or Multi-use Vacuum Formed Plastic Formliners

Vac-U-Form liners allow for cost effective architectural detail for tilt-up, cast-in-place or precast applications. They are ideally suited for small or medium areas of coverage where only limited or a single use of the liner is required.



Vinylok™

Interlocking Trapezoidal Extruded Plastic Formliners

Vinylok formliners can be extruded in lengths of up to 12 metres for use in tilt-up, precast and cast-in-place concrete applications. This unique interlocking system provides the ideal solution for projects where seamless finishes are required.



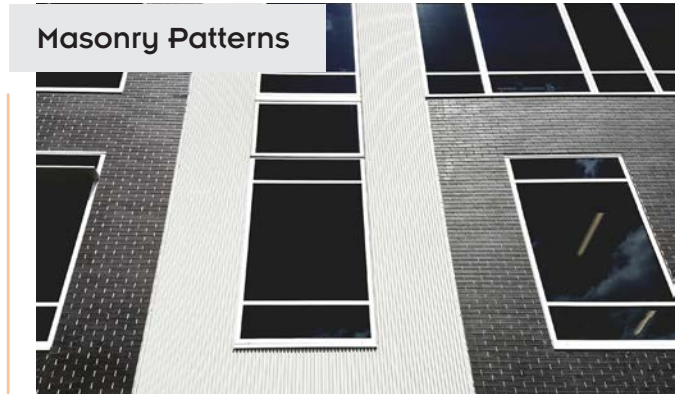
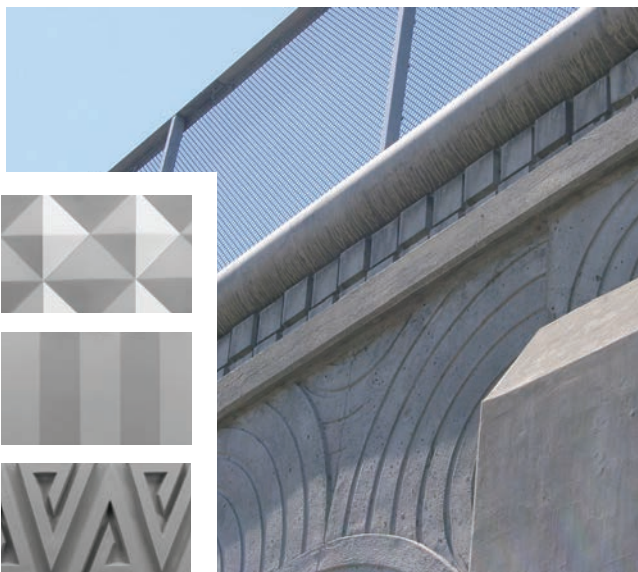
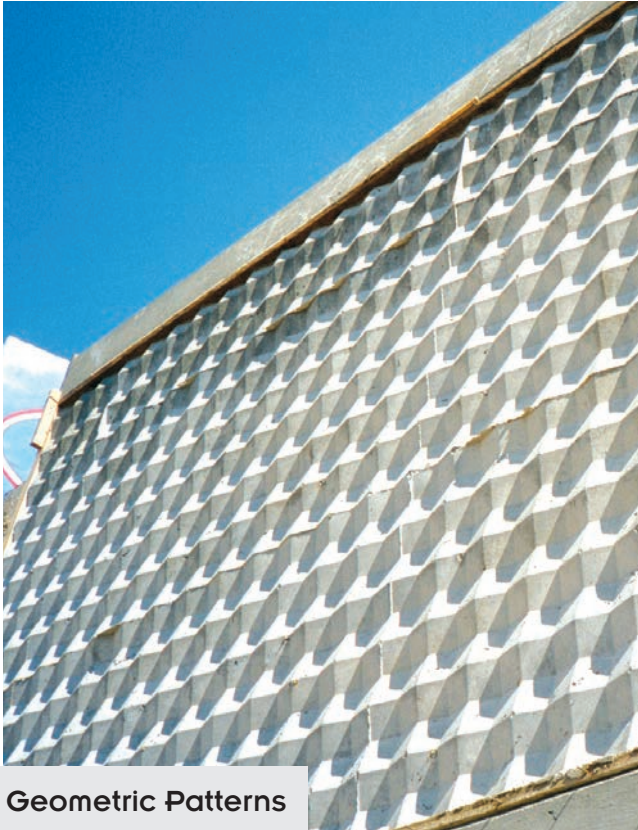
FitzLok™

Interlocking Seamless Formliners

FitzLok single use interlocking formliner panels provide a seamless, simulated, smooth brick or block masonry finish. FitzLok formliners reduce labour time by allowing you to quickly and easily "snap" formliners together.

Fitzgerald Formliners Gallery

Fitzgerald Formliners pride themselves on providing the best formliners in the industry, focusing their efforts solely on the continuous innovation and improvement of their products.



Fitzgerald Formliners' simulated masonry patterns are used when the realistic look of brick or masonry block is desired. They are available in a wide range of sizes and textures that provide many design solutions.



Woodern Plank Patterns

Fitzgerald Formliners' wooden plank textures create the aesthetics of natural board finishes. You can choose light, medium or heavy grain finishes. They are a cost effective solution to old-fashioned board form applications.



Fluted Rib Patterns



Stone & Rock Patterns





nirvana insulated panels

Nirvana™ Insulated Concrete Panels combine the energy efficiency of insulation with the thermal mass and structural integrity of concrete, to produce buildings that are both comfortable and sustainable.



Insulated Concrete Panels for Energy Efficiency



ReidTM NirvanaTM insulated sandwich concrete panel system maximises thermal efficiency by combining insulation with the high thermal mass properties of concrete.

Nirvana insulated panels are commonly used for residential housing and commercial construction such as libraries, schools, prisons or office complexes. Nirvana is best suited in situations where outside temperatures reach extreme levels, because of its ability to moderate temperature fluctuation inside the building.

How the Nirvana Insulated Concrete Sandwich Panel System Works

Nirvana Insulated concrete panels combine Reid expertise in concrete anchoring technology with the science of heat transfer. Nirvana connector pins lock in a thickness of insulation between two concrete layers (wythes) to produce a wall with exceptional resistance to heat transfer, which can be lifted, erected, and installed as a single unit.

The internal concrete wall provides the structural strength and thermal mass, the insulation layer reduces the flow of heat energy into or out of this thermal mass, and the external wall provides physical protection to the insulation layer. By varying the thickness of each layer, different structural and thermal properties can be achieved.

Nirvana connector pins possess a circular cross-sectional area, providing confidence that correct orientation of the pin during installation will not become an issue. Tests have shown that using a Nirvana pin provides more than sufficient strength against pull-out failure. The pins are made from an epoxy-backed vinyl ester resin system and are placed in a grid pattern during set-up of the panel.

Designing with Nirvana

Effective design can dramatically improve the performance of buildings during construction and service life.

The many different elements work as a closed system, interacting to either enhance their function or detract from original designs. Good design will achieve substantial savings in building construction and operational costs, while providing a comfortable indoor environment and desirable aesthetics.



**Nirvana
connector pins**

Connector Pins



Nirvana connector pins are manufactured from pultruded glass fibre/resin composite,

providing exceptional tensile and flexural strengths, with low heat conductivity and high heat capacity.

These heat transfer properties are particularly important, otherwise the pin will form a thermal bridge between concrete layers, greatly reducing the R-value. Specification of connection pins must first consider their length, which must be sufficient to span the insulation layer and provide appropriate embedment within each concrete layer of the panel.

The number of pins required to support the weight of the external concrete layer and resist the bending moments ("lever arm" formed over the distance between each layer of concrete) will determine the distance between individual pins. More pins will be required around edges and penetrations such as windows and doors.

Structural Design

All structures require correct design to ensure they will withstand the forces exerted during their service life.

This includes the weight of the structure, wind loads (especially in cyclonic regions), seismic loads and any other dynamic forces that could be experienced. The internal concrete face of a Nirvana panel forms the structural load-bearing wall, and contains lifting anchors for moving into place, connection points for fixing, and steel reinforcing bar and mesh to support the structure throughout its life.

In addition to these typical applications, this internal section has a layer of insulation and an external concrete face attached to it through the Nirvana connector pin. These high tensile pins are embedded into the internal concrete layer during manufacture and anchor the insulation and external concrete face tightly to the structure to prevent delamination and separation of the panel layers.

Reid can design the spacings of the connector pins to safely hold the weight of these two external layers firmly in place.

Insulation Thickness

The effectiveness of insulation is dependent on the type of material and its thickness. The Nirvana system can be used with many varieties of insulation to suit your performance requirements and budget.

Once selected, the R-value (thermal resistance) of the Nirvana panel can be varied by altering the thickness of the insulation.

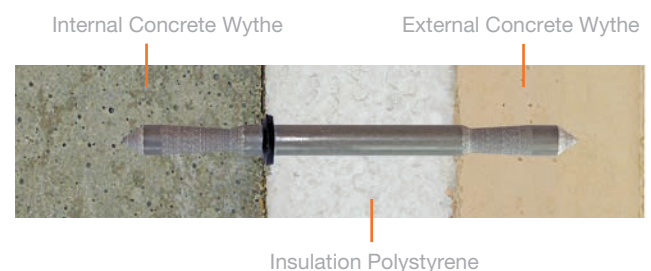
By doing so, the Nirvana panel can be designed to achieve a specific R-value to meet National Construction Code (NCC) requirements. However, as NCC guidelines are a minimum requirement only, higher R-values may be used if greater financial benefit can be realised.

Thermal Mass

Thermal mass or "heat capacity" refers to the amount of heat energy required to induce a change in temperature in a material.

The structural wall of the Nirvana system provides a high thermal mass, where heat energy passing into or out of it is limited by the insulation component of the system.

This mechanism allows the Nirvana system to be engineered such that the internal wall temperature will never rise excessively. This will maintain comfortable temperatures indoors, and greatly reduce heating and cooling requirements throughout the changing seasons.



customer service

Reid™ New Zealand

Customer Service Centre

Tel: 0800 88 22 12

Email: sales@ramsetreid.co.nz

Web: www.reids.co.nz

ramsetreid™ 1 Ramset Drive, Chirnside Park 3116

Information in this document is correct at the time of printing. Readers should contact ramsetreid™ or consult ramsetreid™ detailed technical information to ensure product is suitable for intended use prior to purchase. ITW Australia Pty Ltd ABN 63 004 235 063 trading as ramsetreid™

© copyright 2019. ™ Trademarks of Cetram Pty. Ltd. Used under license by ramsetreid™
Imagery showing graphic concrete is used with permission of Graphic Concrete Ltd.

