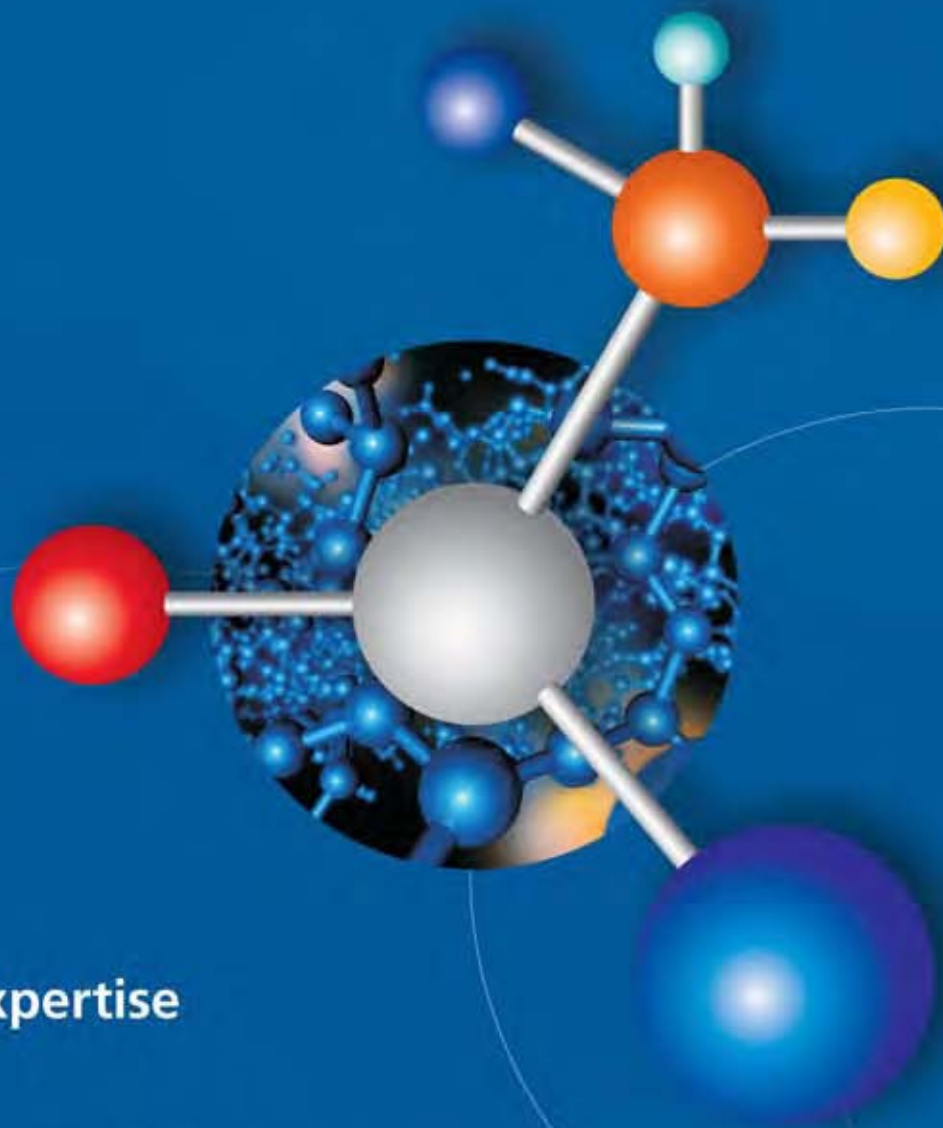


NOVAPLAS

Injection Moulders

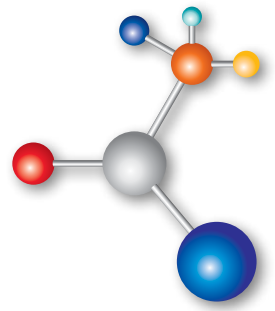


expertise

service

quality

novaplas.com.au



Company Profile

NOVAPLAS

Our Vision

To be leaders in the manufacture of plastic moulded products with emphasis on technological advancement, innovation, reliability and service.

Our Mission

The Novaplas Team is made up of committed, positive and highly experienced persons who are striving continuously with an ethic for balance, integration and honesty. The success of our operation is based on each of the dedicated team working with the broad view of the outcomes being a win/win result for the Customer, the Company and the Team.

Our Company

Novaplas Pty Ltd is a family owned and operated business, established in 1973 and restructured to a company in 1989. Novaplas has continued to service a wide range of products for the building industry and other customers throughout Australia, New Zealand and the UK during these years and has built up a wealth of experience and knowledge.

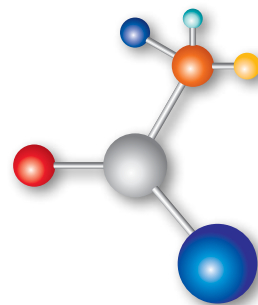
The GREEN Choice

A wide range of our products are manufactured, where possible, from recycled materials that otherwise would go to land fill and we are committed to a program of using environmentally friendly processes. Our modern processing machinery is energy efficient, reducing the carbon emissions and waste.

Quality Standards

Novaplas Pty Ltd has a Quality Assurance system in place which has been established based on the AS/NZS/ISO 9002.

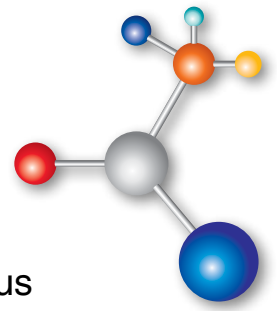
Many of our products are tested to Australian Standards and random testing is performed during production to ensure that the items comply with the relevant test procedures applicable.



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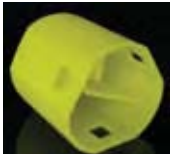
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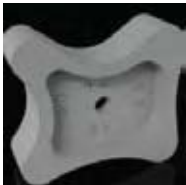
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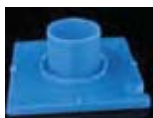
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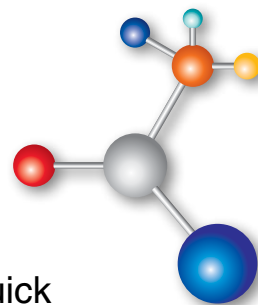
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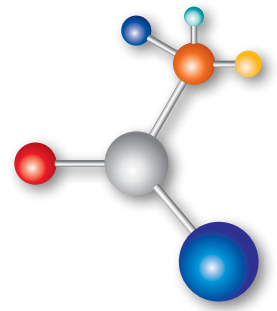
Tow Ball Protector
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Combination Slab on Ground



Description

This range of popular reo chairs are light weight and being stackable allow for ease of handling. These dual height reinforcement spacers are designed for ground floor slabs where support for steel is required without puncturing the polymer membrane. Manufactured from selected recycled plastics for superior performance and cleaning the environment.

Supplied in coloured bags for easy size identification.

Size Availability: 25/40mm
50/65mm
75/90mm
85/100mm

Ideal for

- Slab on Ground construction
- Pod Slabs
- Swimming Pools

Baseplates

The plastic sand tray provides most types of chairs with extra stability in the slab on ground construction. This product has a 200mm diameter, and locating pins to prevent movement of the chair.



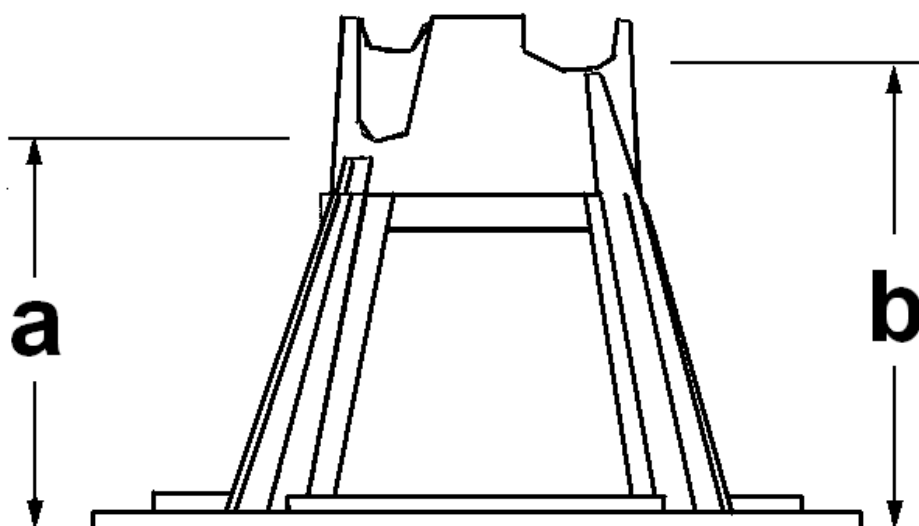
Combination Slab on Ground



DIMENSIONS

PRODUCT CODE	COVER		MASS (kg) PER BAG
	a	b	
SOG 25/40	25	40	2.0
SOG 50/65	50	65	3.2
SOG 75/90	75	90	4.2
SOG 85/100	85	100	4.4

Packed in bags of 100 pieces. Pallets of 5000
All dimensions are nominal and expressed in millimetres.

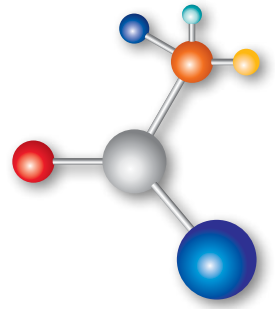


BASEPLATES

PRODUCT CODE	BAG	PALLET	MASS (kg) PER BAG
	QTY	QTY	
BSW 200	100	3000	4.6



Baseless Combination Panel Chairs



Description

This panel chair, which is extensively used in precast and on site applications, has been designed to support single layered mesh in tilt-up, precast panels and some suspended deck applications.

The spacers provide covers of 50 and 65mm in one chair, and 65 and 75mm in the other to suit popular panel thicknesses of 100, 120, 130, 150 and 170mm. With four strong, stable legs the chair can support the mesh whilst walking over it, without collapsing or tipping.

Pointed legs ensure minimum visibility on the surface of the concrete, and the chair is coloured a consistent grey to match.

The easy push on clip mechanism allows for the chair to swing into a vertical position when lowering the mesh into the form, and suits all mesh sizes including Y12 bars.



Size Availability

Provides covers of 50 and 65mm as well as 65 and 75mm for panel thicknesses of 100, 120, 130 150 and 170mm.

Ideal for

- Precast and tilt-up panels
- Suspended decks

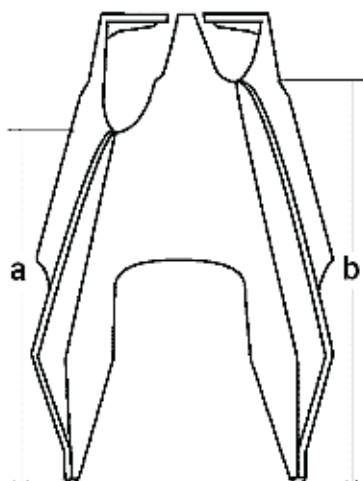
Baseless Combination Panel Chairs



DIMENSIONS

PRODUCT CODE	PALLET QUANTITY	BAG QUANTITY	MASS (kg) PER BAG
BPANEL 50/65	5000	100	2.1
BPANEL 65/75	5000	100	2.6

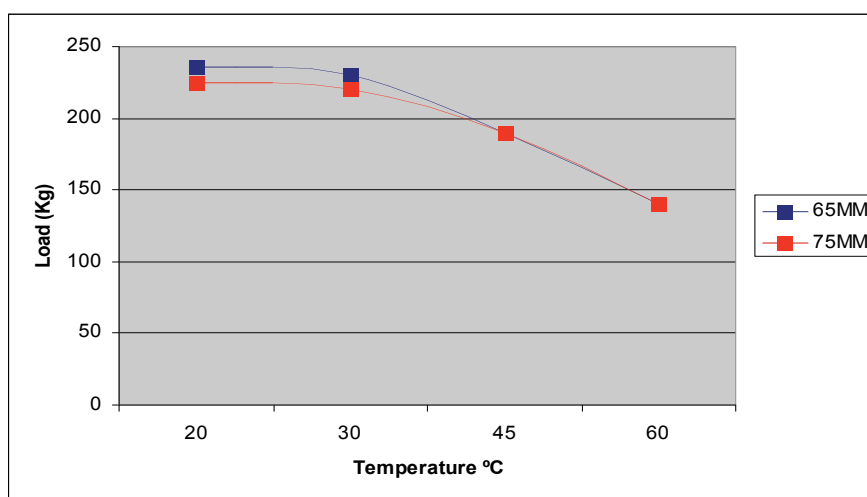
Note: All dimensions are nominal and expressed in millimetres.



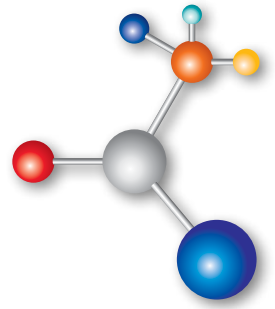
BPANEL 50/65 A = 50mm B = 65mm

BPANEL 65/75 A = 65mm B = 75mm

LOAD PERFORMANCE



Novabone Heavy Duty Bar Spacer

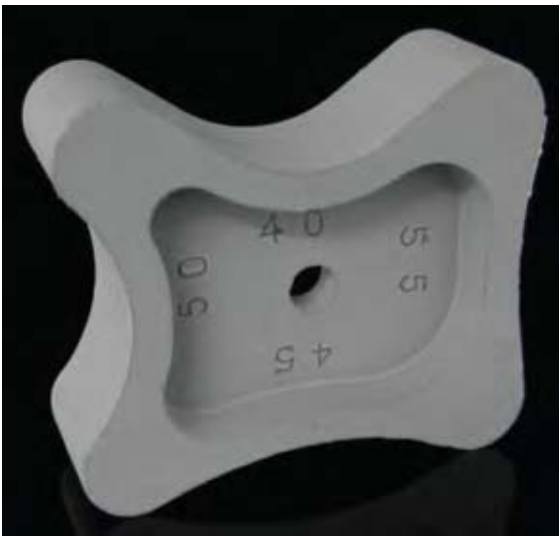


Description



The NOVABONE bar spacer has been designed specifically for the heavy weight and large diameter reinforcing bars that are used in concrete beams for structures such as bridges, and has the following features:

- Economical alternative to concrete moulded spacers
- Greater stability from flat base
- Manufactured from high strength engineering polymer.
- Coloured to match concrete
- Has similar expansion and contraction rates to concrete
- Moisture resistant
- Central hole for tie wire
- Withstands high ambient temperatures
- Laboratory tested
- Approved for Main Roads (WA) Works
- Registered Design granted



Size Availability

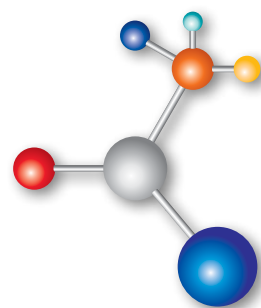
The Novabone range sizes are as follows:

- 20, 25, 30, 35mm
- 40, 45, 50, 55mm
- 60, 65, 70, 75mm

Ideal For: Columns, Tee Roff & Super Tee Beams.

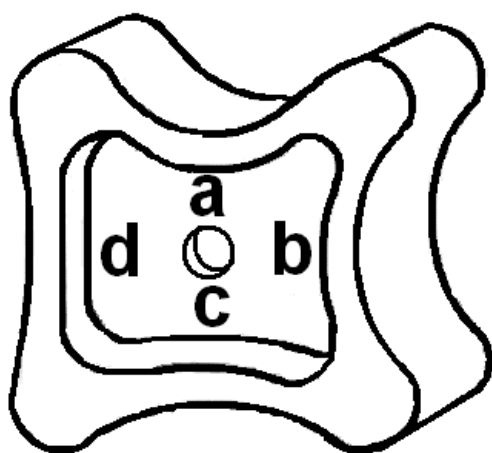


Novabone Heavy Duty Bar Spacer

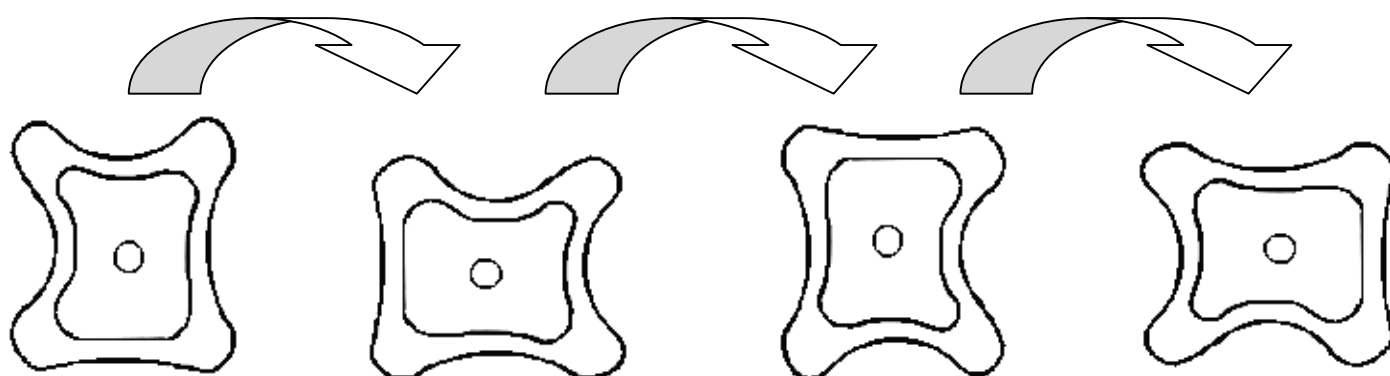


DIMENSIONS PRODUCT CODE

	HEIGHT				Mass Kg	Bag	Pallet
	a	b	c	d	Per Bag	Quantity	Quantity
NB-20/35	20	25	30	35	2.8	100	5000
NB-40/55	40	45	50	55	3.7	100	5000
NB-60/75	60	65	70	75	3.4	50	5000



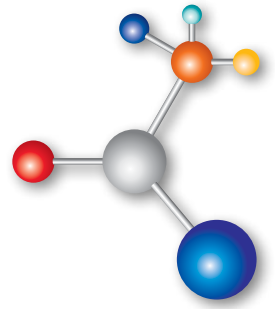
Central hole for tie wire



T: (08) 9455 2228

F: (08) 9455 2227 E: sales@novaplas.com.au

Fast Clip Bar Chair



Description

Our extensive range of Fast Clip-on Barchairs (FCB's) are designed to make steel fixing and traceability easier, with each chair identified by cover.

They are made from quality materials and come in two head sizes to accommodate different bar sizes, one for 4mm to 20mm bar and the other for 20mm to 36mm bar. The convenient, economical range is designed for minimal exposure and coloured grey to match the concrete.



Greater stability and less exposure can be achieved where necessary with the use of clip-in bases, available in two heights, 15 and 25mm.

Size Availability

Both head sizes available in 15, 20, 25, 30, 35, 40, 45, 50, 60, 65 and 75mm cover.

Bases allow extra heights of 15 and 25mm. (Suits mesh chair as well).



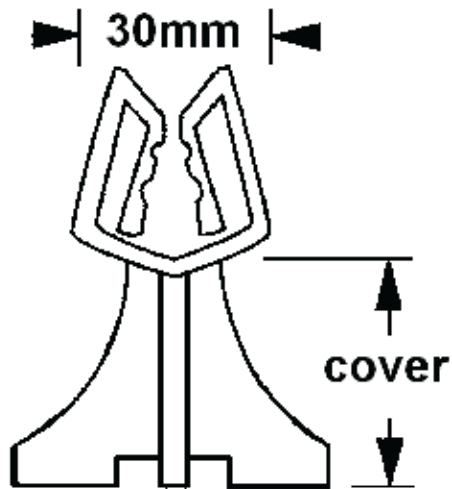
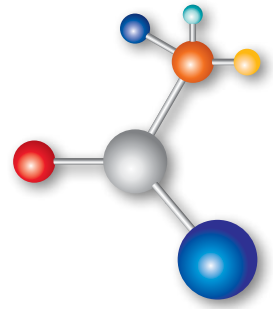
Ideal for

- Precast and Tilt-Up
- Suspended decks
- Beams, walls and panels

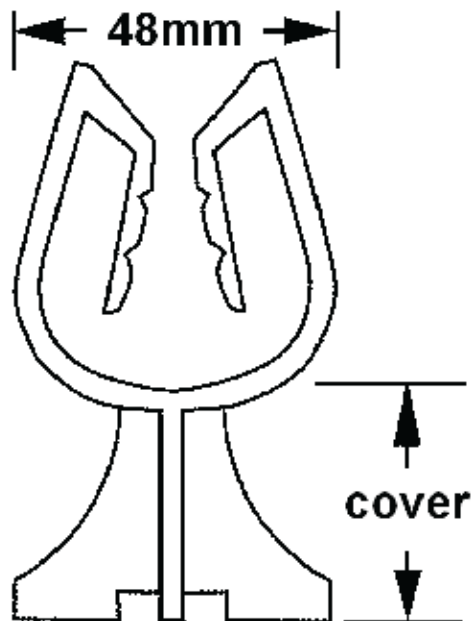
Stabilising feet



Fast Clip Bar Chair



SMALL HEAD



LARGE HEAD

DIMENSIONS

PRODUCT CODE	COVER	MASS (kg) PER BAG
--------------	-------	----------------------

SMALL HEAD for 4mm – 20mm bar

FCB15	15	0.8
FCB20	20	0.9
FCB25	25	1.0
FCB30	30	1.1
FCB35	35	1.1
FCB40	40	1.2
FCB45	45	1.3
FCB50	50	1.5
FCB60	60	1.6
FCB65	65	1.8
FCB75	75	2.0

LARGE HEAD for 20mm – 36mm bar

FCBP15	15	1.2
FCBP20	20	1.2
FCBP25	25	1.4
FCBP30	30	1.4
FCBP35	35	1.5
FCBP40	40	1.5
FCBP45	45	1.6
FCBP50	50	1.7
FCBP60	60	1.9
FCBP65	65	2.0
FCBP75	75	2.2

BASES

FWBASE015	+15	0.9
FWBASE025	+25	1.1

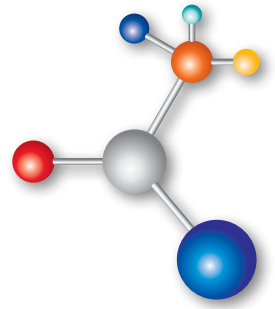
Packed in bags of 100

All dimensions are nominal and expressed in millimetres.

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Fast Clip Mesh Chair



Description

A versatile range of fast clip-on chairs for mesh support. FCM's are available in a wide range of cover sizes from 20mm to 75mm and an addition of extensions and bases increasing cover up to 170mm. The chair is designed to clip easily to the intersection of the mesh, providing greater strength and stability.

Coloured grey to match concrete, these chairs, bases and extensions have minimal exposure making them ideal for precast manufacturers and tilt-up construction. Bases of both 15 and 25mm can be used to increase cover and stability for minimized exposure. Flat circular bases of 80mm diameter are also available for slab on ground applications.



Size Availability

Chairs available in: 20, 25, 30, 35, 40, 50, 65 and 75mm cover

Extensions in: 25, 30, 50, 60, 65 and 70mm.

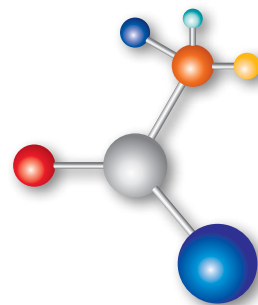
Bases in: 15, 25mm slab on ground



Ideal for

- Tilt-Up and Precast Panels
- Suspended Slabs
- Slab on Ground with bases

Fast Clip Mesh Chair



DIMENSIONS

PRODUCT CODE	COVER	MASS (kg) PER BAG
--------------	-------	----------------------

MESH SUPPORTS

FCM20	20	0.5
FCM25	25	0.6
FCM30	30	0.6
FCM35	35	1.3
FCM40	40	1.4
FCM50	50	1.4
FCM65	65	1.6
FCM75	75	1.7

EXTENSIONS

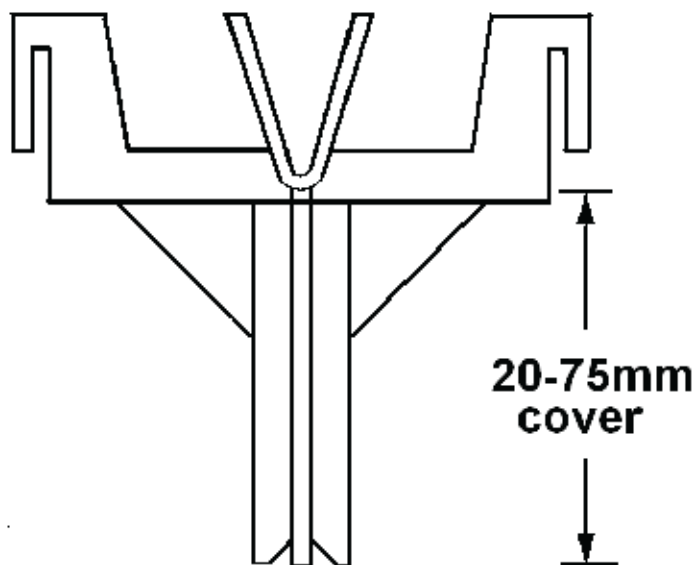
FCMX25	25	0.6
FCMX30	30	0.7
FCMX50	50	1.0
FCMX60	60	1.1
FCMX65	65	1.1
FCMX70	70	1.2

BASES

FWBASE015	+15	0.9
FWBASE025	+25	1.1

SLAB ON GROUND BASE

FC BASE	+2	1.3
---------	----	-----



MESH SUPPORT

Packed in bags of 100. Pallets of 5000.

All dimensions are nominal and expressed in millimetres.

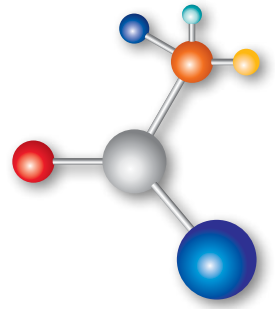


Mesh extensions, stabilisers & bases

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Continuous Deck Rail



Description

The 750mm long plastic Deck Rail is a continuous spacer which is strong and stable for formwork applications. The Deck Rail is designed with sets of vertical legs at approximately 75mm centres and another vertical leg in between the sets, allowing a free concrete flow and having pointed tips on the base for minimal form contact.

Another feature is the unique connection system at each end to enable joining to any given length on site. Once connected the clip will not separate, which is important for large projects.

Eliminates the need for clipping bar chairs onto the reinforcement or “chairing up” after the reinforcement has been placed.

Size Availability

Available in heights from 25mm to 100mm in 5mm increments.

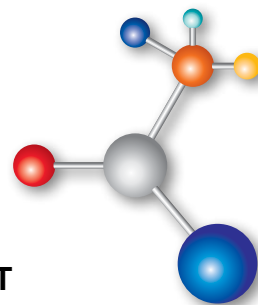
For heights over 100mm, our combination top deck spacers and single height chairs are available.



Ideal for

- Suspended Decks
- Precast or Tilt-Up Panels
- Insitu Precast Beams
- Slabs on Blinding Concrete

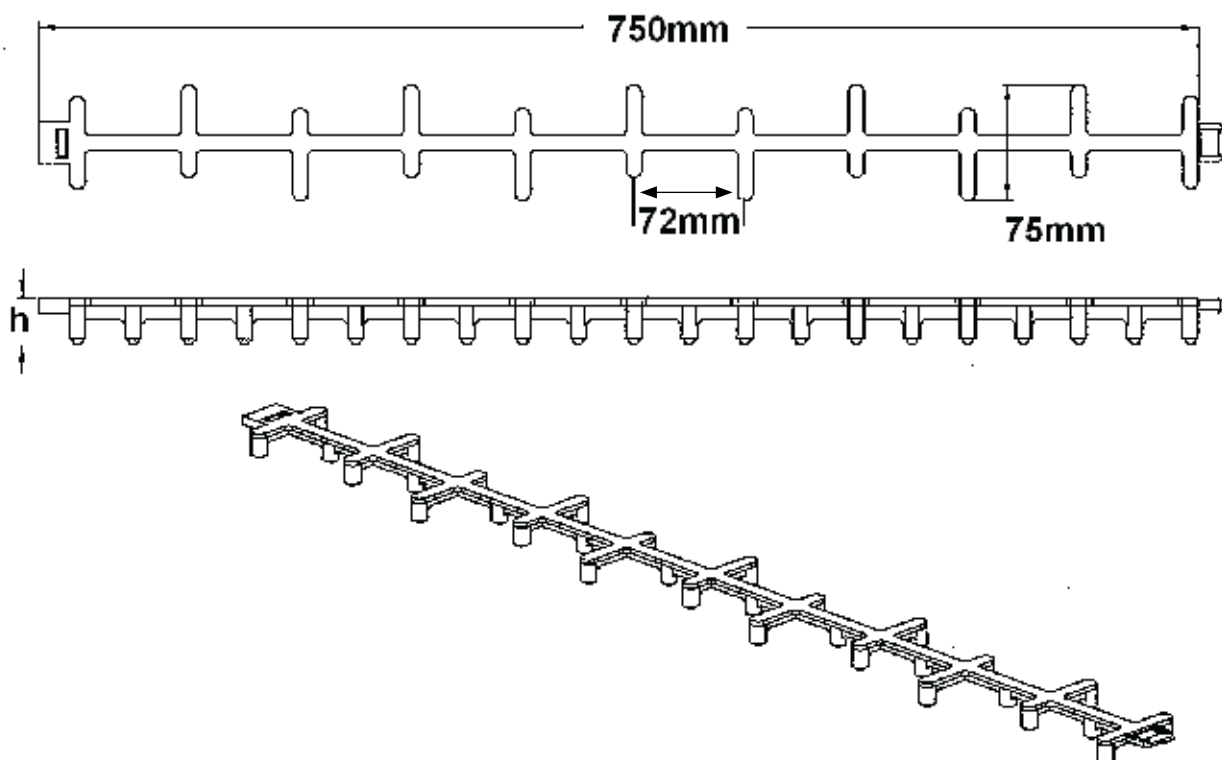




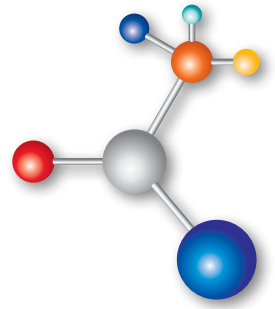
Continuous Deck Rail

DIMENSIONS

PRODUCT CODE	HEIGHT "h"	MASS (kg) PER BAG	PALLET QTY
BDR025	25	16.3	2000
BDR030	30	17.5	1700
BDR035	35	19.0	1700
BDR040	40	20.0	1500
BDR045	45	21.5	1500
BDR050	50	22.6	1300
BDR055	55	24.1	1300
BDR060	60	25.4	1200
BDR065	65	26.5	1200
BDR070	70	27.9	1100
BDR075	75	29.1	1100
BDR080	80	30.4	1000
BDR085	85	31.7	1000
BDR090	90	33.0	900
BDR095	95	34.0	900
BDR100	100	34.5	900



Heavy Duty Intersection Bar Chair



Description



The heavy duty intersection chair is designed for the precast industry and the production of "Super Tee Beams". The result is a design that takes advantage of the intersection to provide a chair that does not move.

Clipped to both bars at the intersection, the chair is amazingly secure and will not swivel or turn. Ideal in vertical applications.

The chairs are currently designed to accommodate combinations of Y16 bars and Y12 bars.

Designed and manufactured from quality plastic for optimum performance, the new chairs have been load tested to exceed 200kg.



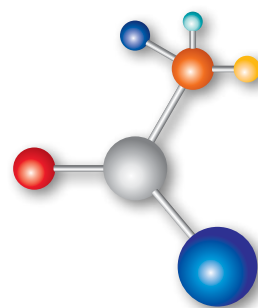
Size Availability

30, 35, 60 and 65mm cover

Ideal for:

- Civil heavy precast
- Suspended decks
- Beams, walls and columns
- Horizontal or vertical
- Insitu Beams

Heavy Duty Intersection Bar Chair

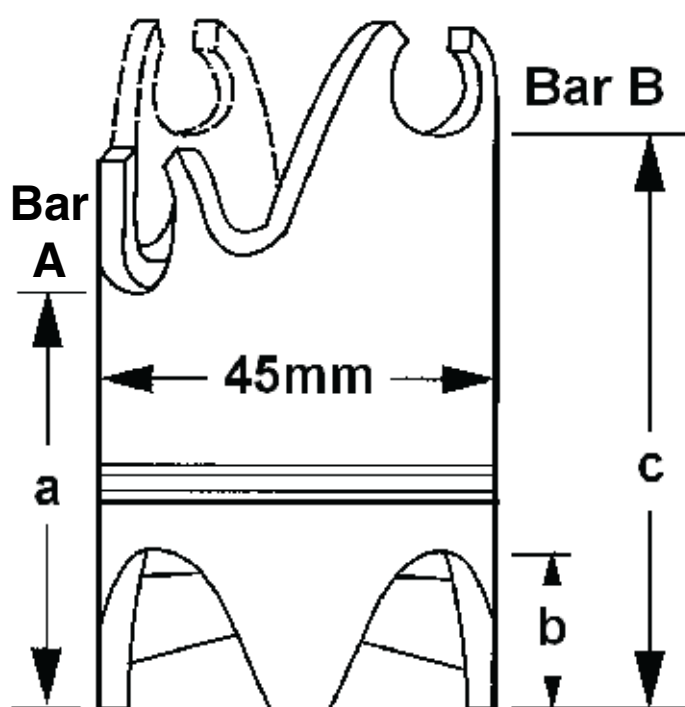


DIMENSIONS

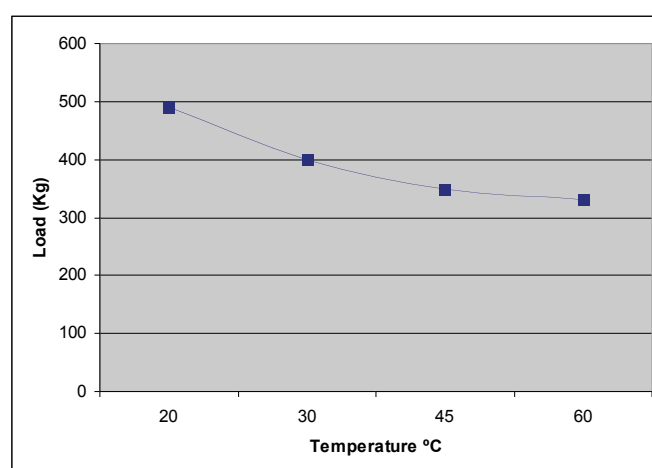
PRODUCT CODE	BAR	BAR	a	b	c
HD 30IN 16&12	16	12	30	20	46
HD 35IN 16&12	16	12	35	20	51
HD 60IN 16&12	16	12	60	45	76
HD 65IN 16&12	16	12	65	45	81
HD 30IN 16&16	16	16	30	20	46
HD 35IN 16&16	16	16	35	20	51
HD 60IN 16&16	16	16	60	45	76
HD 65IN 16&16	16	16	65	45	81
HD 30IN 12&12	12	12	30	20	42
HD 35IN 12&12	12	12	35	20	47
HD 60IN 12&12	12	12	60	45	72
HD 65IN 12&12	12	12	65	45	77

*Other bar combinations are available subject to minimum production requirements
i.e. 12 & 16mm.

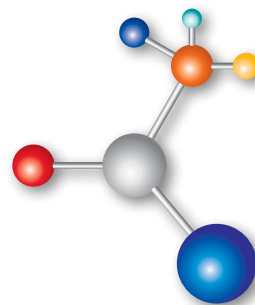
*All packed in bags of 100.



HD 35IN 16&12



Heavy Duty Bar Chair



Description

The new heavy duty clip-on range was initially designed as a replacement for concrete blocks and wire chairs in the heavy precast market, overcoming concrete compatibility, moisture retention and rust problems. It is a quick and easy to use Barchair which is versatile, strong and robust.

The new Barchair has been load tested to support 200kg (at moderate ambient temperature). Steel fixers, walking freely on the bar or mesh, have been greatly impressed with its strength and stability.

The new chairs are versatile in the range of bar sizes. They can accommodate Y12 and Y16 as a clip-on and up to Y28 in non clip-on applications.

Ensuring minimum cover requirements has never been easier

Size Availability

30, 35, 40, 45, 50, 60, 65, 70, 75 and 80mm cover, each with clip-ons for either Y12 or Y16 and up to Y28 as a non clip-on.

Ideal for

- Civil heavy precast
- Suspended decks
- Bars or mesh
- Horizontal or Vertical Suspended Decks
- Precast Beams
- Strip Footings with Base
- Insitu Beams

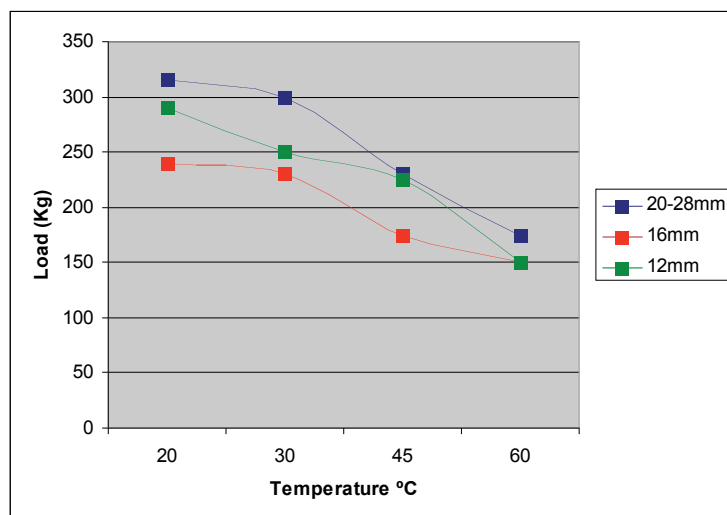
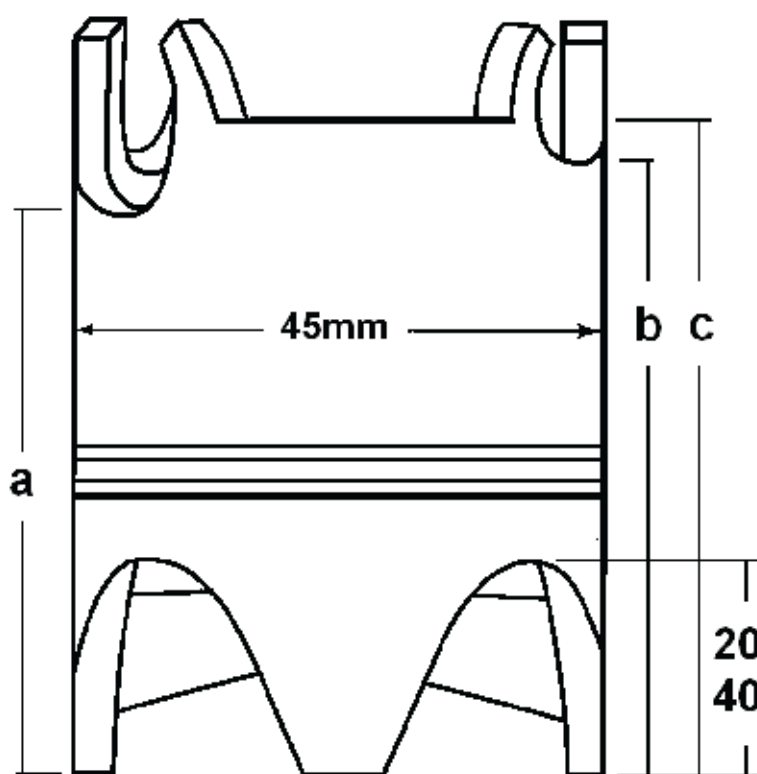


Heavy Duty Bar Chair



DIMENSIONS

PRODUCT CODE	CLIP-ON		NON CLIP-ON	PACK QTY
	Y16 a	Y12 b	Y20-Y28 c	
BHD 30/34	30	34	38	100
BHD 35/39	35	39	43	100
BHD 40/44	40	44	48	100
BHD 45/49	45	49	53	100
BHD 50/54	50	54	58	100
BHD 60/64	60	64	68	100
BHD 65/69	65	69	73	100
BHD 70/74	70	74	78	100
BHD 75/79	75	79	83	100
BHD 80/84	80	84	88	100

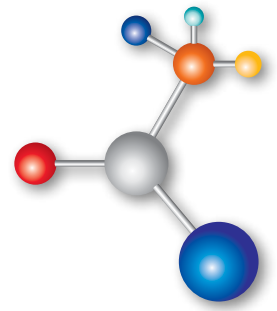


20mm (30-50mm cover)
40mm (60-80mm cover)

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Circular Spacers



Description

The extensive range of circular spacers are designed and manufactured from quality plastics, for strength and stability, and are coloured grey.

The unique design offers accurate cover for 360 degrees. It will not twist when in position, due to the built-in sleeves which adjust to hold a wide range of bar sizes firmly. As the size of the bar increases, the cover remains the same.

The circular spacer, having an open construction, will not interrupt concrete flow, and is designed to be connected to the fitment so that it is in a vertical position, enabling it to rotate when the formwork is assembled.

Size Availability

Bar Size	Cover in mm							
3- 6mm	12	15	20	25	30			
8-12mm	15	20	25	30	40	50	65	75
16-20mm	25	30	40	50	75			

Ideal for:

- Civil precast and commercial construction
- Columns and piers
- Bar spacers in conduit

Circular Spacers

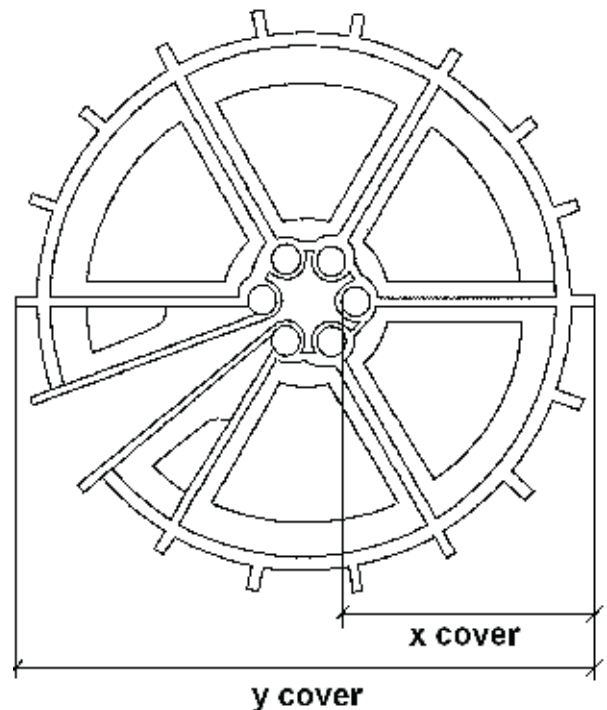
DIMENSIONS

Order Code	Bar Size	Cover (x)	O/A Diameter (y)	Bag weight kg
CA12 CR6	3-6	12	30	0.15
CA15 CR6	3-6	15	35	0.25
CA20 CR6	3-6	20	45	0.36
CA25 CR6	3-6	25	55	0.42
CA30 CR6	3-6	30	65	0.5
CB15 CR12	8-12	15	40	0.25
CB20 CR12	8-12	20	50	0.8
CB25 CR12	8-12	25	60	1.1
CB30 CR12	8-12	30	70	1.2
CB40 CR12	8-12	40	90	1.4
CB50 CR12	8-12	50	110	2.3
CB65 CR12	8-12	65	145	4.0
CB75 CR12	8-12	75	160	4.5
CC25 CR20	16-20	25	65	1.3
CC30 CR20	16-20	30	75	1.4
CC40 CR20	16-20	40	95	1.6
CC50 CR20	16-20	50	115	2.7
CC75 CR20	16-20	75	165	5.0

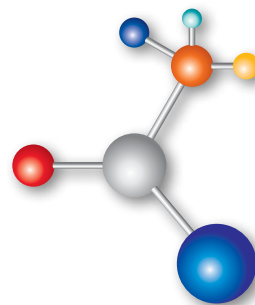
*All packed in bags of 100.

A, B or C denotes bar size

A = 3 - 6mm B = 8 – 12mm C = 16 – 20mm



Trench Mesh Supports



Description

Our Trench Mesh Support has been designed with the clip at both sides, to allow the support to be fitted prior to lowering the mesh into the trench. A non clip-on support in the middle allows for tolerances in the main wire spacing of the trench mesh.

The maximum width of 290mm avoids interference with the sides of narrow trenches.

This secure support can accommodate 8, 11, and 12mm bar or mesh, with 60mm cover.

Ideal for:

- Residential applications such as strip footings, foundations and raft slabs.

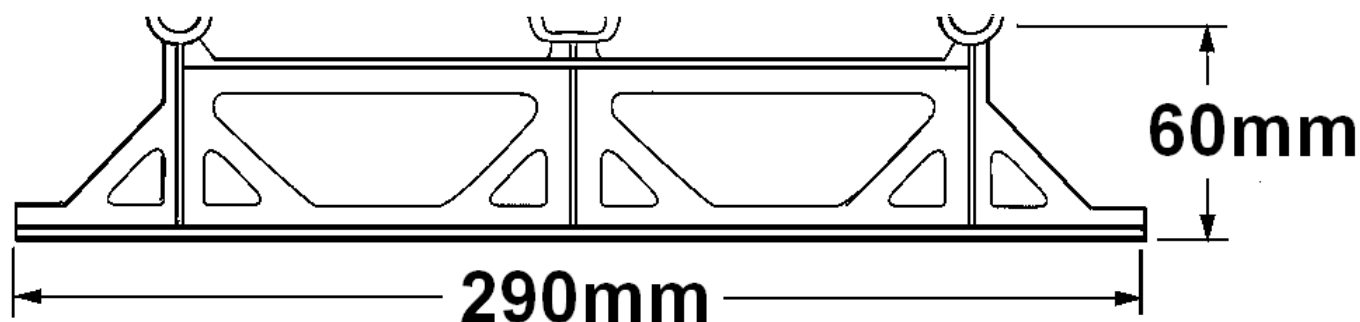
Size availability

60mm cover for 8 to 12mm bar or mesh.



DIMENSIONS

Product Code	Cover	Quantity per Bag	Mass per Bag
TMS	60mm	25	1kg



Deck Chairs Unassembled



100mm Base



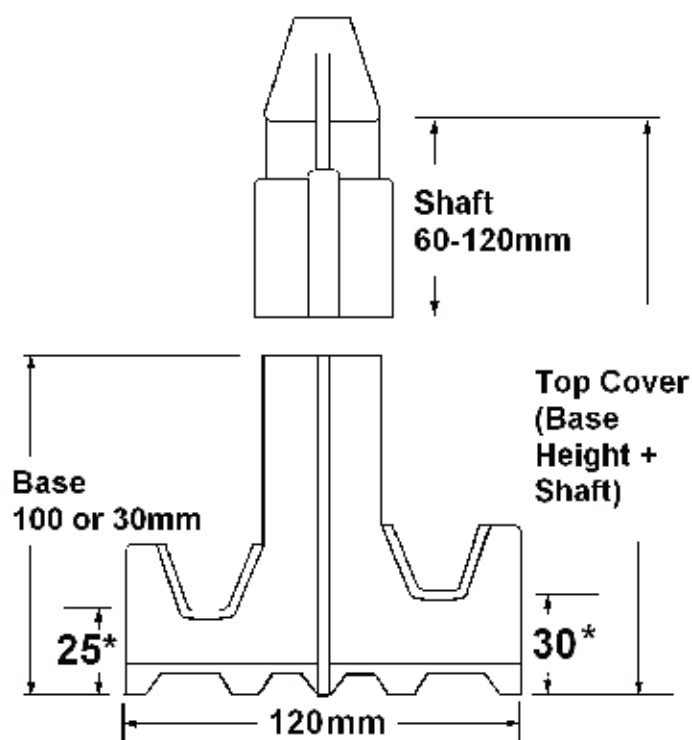
30mm Base

PRODUCT CODE

<u>Base</u>	<u>Height</u>	<u>Mass kg per Bag</u>
DKBASE30	30mm	5.0
DKBASE100	100mm	6.1

<u>Shaft Extension</u>	<u>Height</u>	<u>Mass kg per bag</u>
DKSHAFT60	60mm	2.8
DKSHAFT70	70mm	3.0
DKSHAFT80	80mm	3.5
DKSHAFT90	90mm	3.9
DKSHAFT100	100mm	4.5
DKSHAFT110	110mm	5.1
DKSHAFT120	120mm	5.6

All packed in bags of 100 pieces.

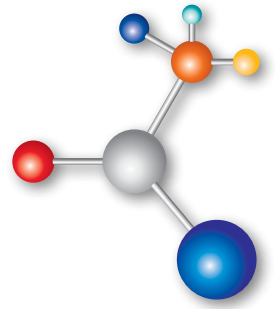


Unassembled Deck Chair
100mm Base Pictured

T: (08) 9455 2228

F: (08) 9455 2227 E: sales@novaplas.com.au

Deck Chairs



Description

The revolutionary new Deck chair has been designed as a replacement for wire reo supports in suspended decks, large precast and tilt-up applications. The new chairs are more economical, lighter and have no rust problems.

The chairs are strong and stable; load tests to date have exceeded 350kg. The bases are designed to fit through a 100mm aperture for easy installation, minimal exposure, and are coloured grey.

Now the same chair can be used to support both reinforcement layers. The bases can support the bottom reo, and the shaft clips conveniently to the top reo saving time and money. (The shaft clips will crush down to allow large bars up to 28mm to sit in the saddle).

Note; when supporting top and bottom mesh, the corresponding wires between each layer must be offset by the shaft thickness (35mm).



Size Availability

Top reo heights if 90 to 220mm in 10mm increments.

- 100mm base provides bottom reo covers of 25 and 30mm.
- 30mm base provides bottom reo covers of 25, 30 and 40mm.

* For Covers between 40 and 75mm the Novabone range is available.

Ideal for:

- Suspended Decks
- Tilt-Up Panels
- Precast Panels

Deck Chairs



DIMENSIONS

PRODUCT CODE	HEIGHT	Mass Per Bag Kg
--------------	--------	-----------------

DECK CHAIRS ASSEMBLED (30mm Base plus shaft)

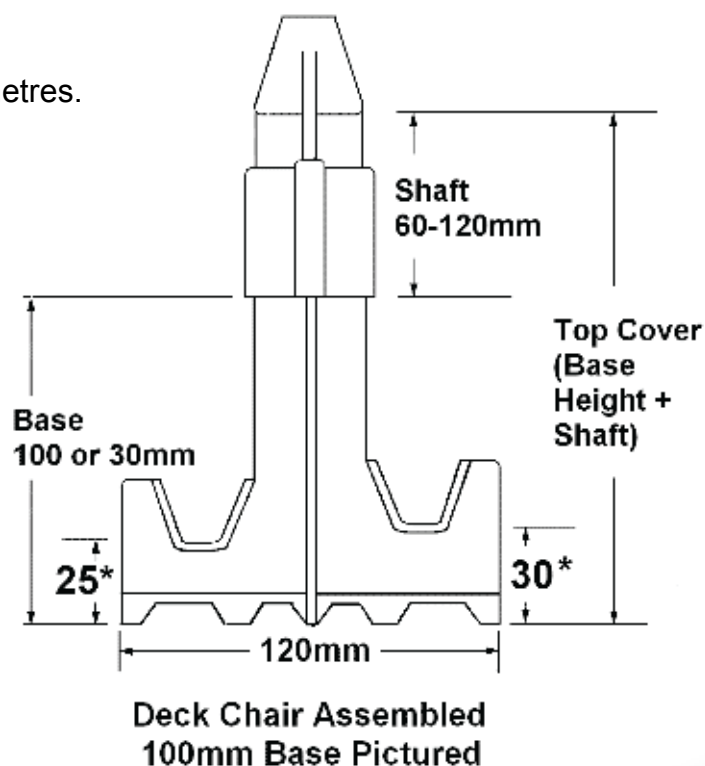
BDK 90	90	30 + 60	4.0
BDK100	100	30 + 70	4.1
BDK110	110	30 + 80	4.2
BDK120	120	30 + 90	4.3
BDK130	130	30 + 100	4.4
BDK140	140	30 + 110	4.5
BDK150	150	30 + 120	4.6

DECK CHAIRS ASSEMBLED (100mm Base plus shaft)

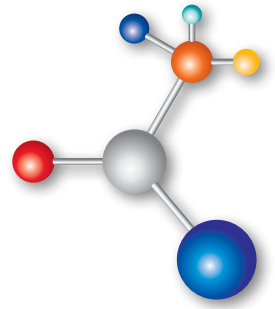
BDK 160	160	100 + 60	5.1
BDK 170	170	100 + 70	5.2
BDK 180	180	100 + 80	5.3
BDK 190	190	100 + 90	5.4
BDK 200	200	100 + 100	5.5
BDK 210	210	100 + 110	5.6
BDK 220	220	100 + 120	5.7

All dimensions are nominal and expressed in millimetres.

Bases and shafts are available separately in bags of 100 or assembled in bags of 50. See Deck Chair Unassembled page.



Plastic Top Deck Spacers



Description

The top deck spacer has been designed to support both top mesh and top reinforcing bars in suspended decks, thick precast and tilt-up panels and any tall spacer applications, where strength and stability is critical.

Load tested to exceed 300kg, the spacer leaves a minimal foot print and is supplied in grey colour.

Unlike wire alternatives, the top deck spacer offers dual heights, which will not rust or spread under normal construction loads and can still be handled in extreme heat.

An added feature is a cross bar between the dual supports, to allow tying the reo with wire, if required.

Size Availability

All top deck spacers are combination – dual heights.

65/75mm, 90/100mm, 110/120mm, 130/140mm, 150/160mm, 170/180mm, 190/200mm.

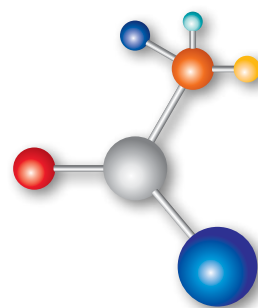
* For heights below 65mm the Novabone range is available.

Ideal for:

- Top reo in Suspended Decks or Beams
- Thick Precast and Tilt-Up Panels
- Thick Concrete Elements
- All reo especially bars exceeding 16mm



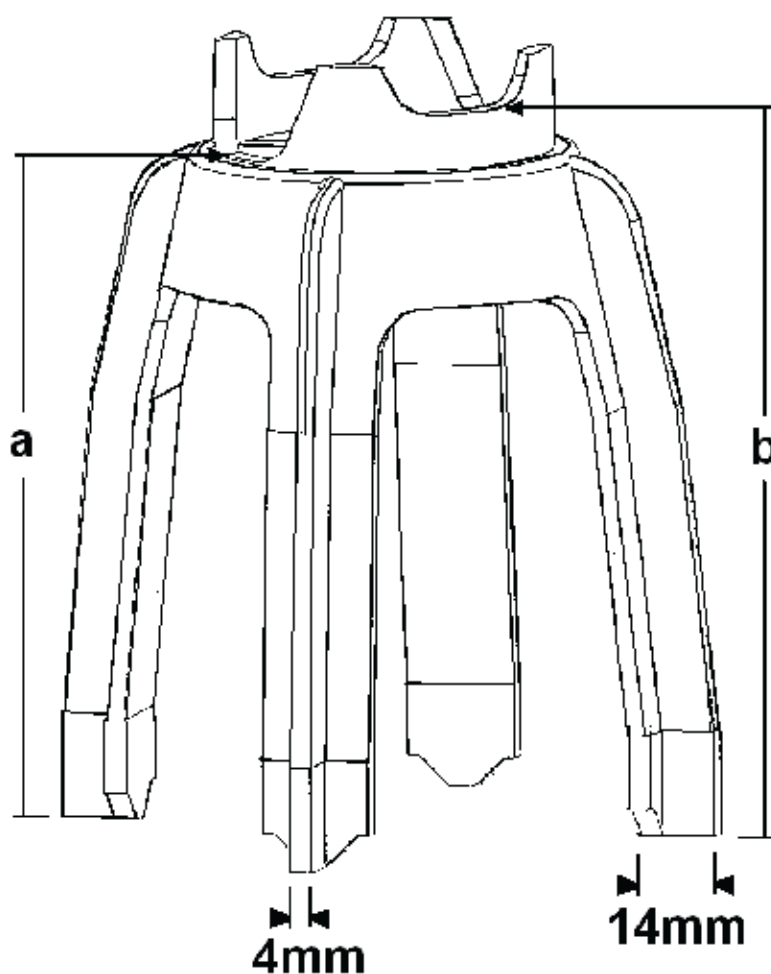
Plastic Top Deck Spacers



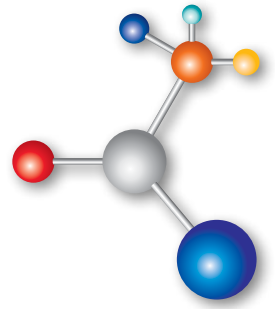
DIMENSIONS

PRODUCT CODE	Height		Mass Per Bag Kg	Pallet Quantity	Bag Quantity
	a	b			
TDK 65/75	65	75	3.1	4500	50
TDK 90/100	90	100	3.7	4200	50
TDK 110/120	110	120	4.3	4200	50
TDK 130/140	130	140	4.7	4000	50
TDK 150/160	150	160	5.2	3000	50
TDK 170/180	170	180	5.7	3000	50
TDK 190/200	190	200	6.3	3000	50

* All dimensions are nominal and expressed in millimetres.



Tall Slab on Ground



Description

The Slab-on-Ground Barchairs has been designed as an economical, lightweight, easy to use alternative to metal chairs with bases in deep slab situations, with no voids under the bar or mesh and no rust problems.

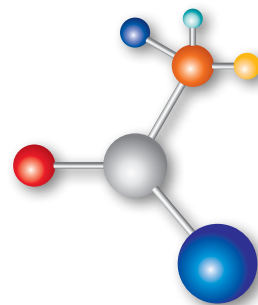
The easy clip-on system ensures that the chair stays in place whilst the integral base saves time and labour placing separate bases.

The chairs have been load tested to exceed 500kg, and are available in 95, 100, 110, 120, 130, 140 and 150mm cover for bar or mesh up to 20mm.



Ideal for:

- Commercial and civil applications such as deep slab on ground, concrete roadways, soft sand blindings and Dowel Joints.



Tall Slab on Ground

DIMENSIONS

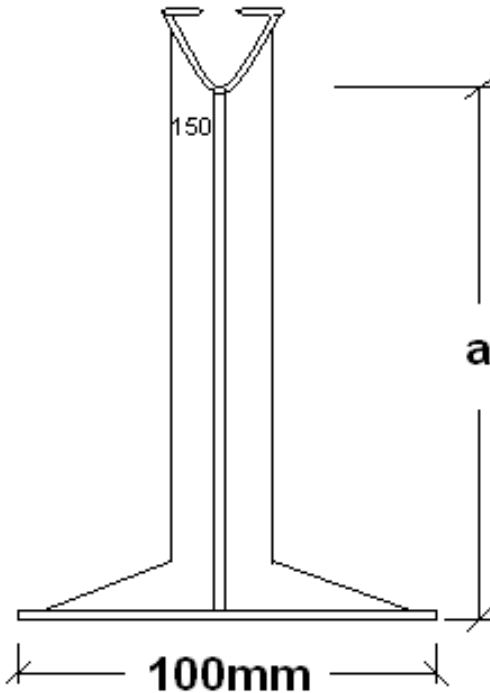
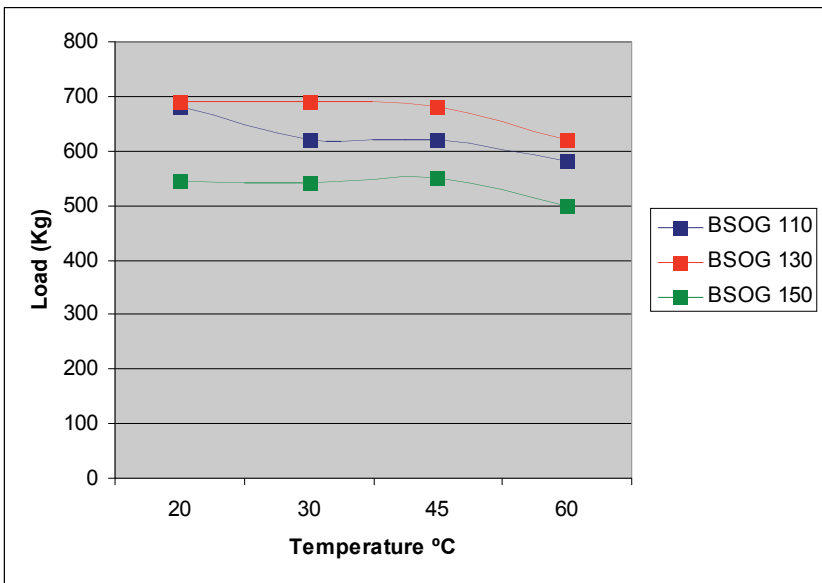
PRODUCT CODE	COVER (a)	MASS (kg) PER BAG	PALLET QTY
BSOG 110	110	5.1	3200
BSOG 120	120	5.3	2800
BSOG 130	130	5.9	2800
BSOG 140	140	6.1	2400
BSOG 150	150	6.5	2400

Packed in bags of 100 pieces.

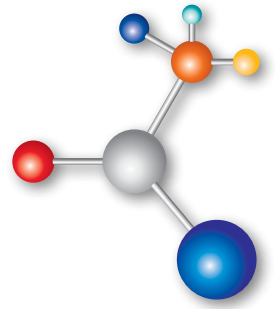
All dimensions are nominal and expressed in millimetres.

BSOG 95, BSOG 100, BSOG 115 also available upon request.

LOAD PERFORMANCE



Plastic Bottom Deck Spacer



Description

The bottom deck spacer has been designed to support both mesh and large bars in suspended decks, precast beams and panels, and tilt-up applications. As an alternative to wire chairs and concrete blocks in several applications, the bottom deck spacers are lighter, offer dual heights and have no rust problems.

Strong and stable, the spacers have 5 small dimples that ensure minimal form contact. The dimples also allow for tie wire to be placed under the spacer for fixing reo if required.

Having supports for the reo with no clips means one spacer fits all common reo size, saves steel-fixing time in horizontal applications, and the strain on hands pushing clips continually.

Size Availability

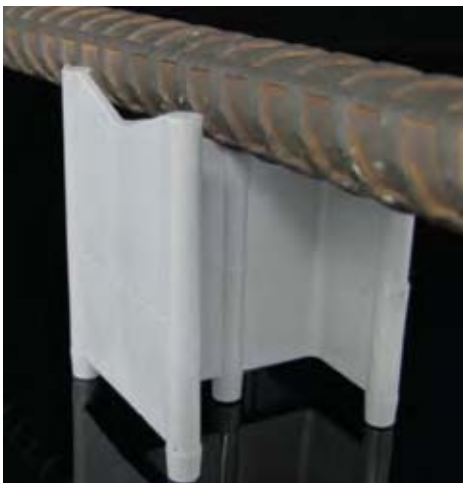
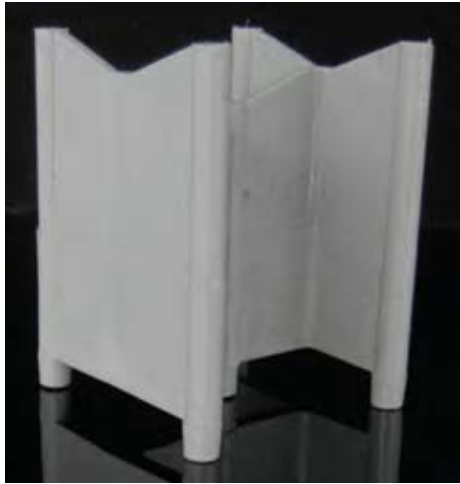
All bottom deck spacers are combination – (dual heights).

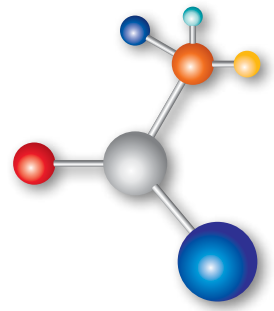
15/20mm, 25/30mm, 35/40mm and 45/50mm.

* For heights over 50mm and up to 220mm, the Novabone, Topdeck, B Panel & Deck Chair range are also available.

Ideal for:

- Suspended Decks and Beams
- Tilt-Up Panels
- Precast Panels and Beams
- Blinding Concrete





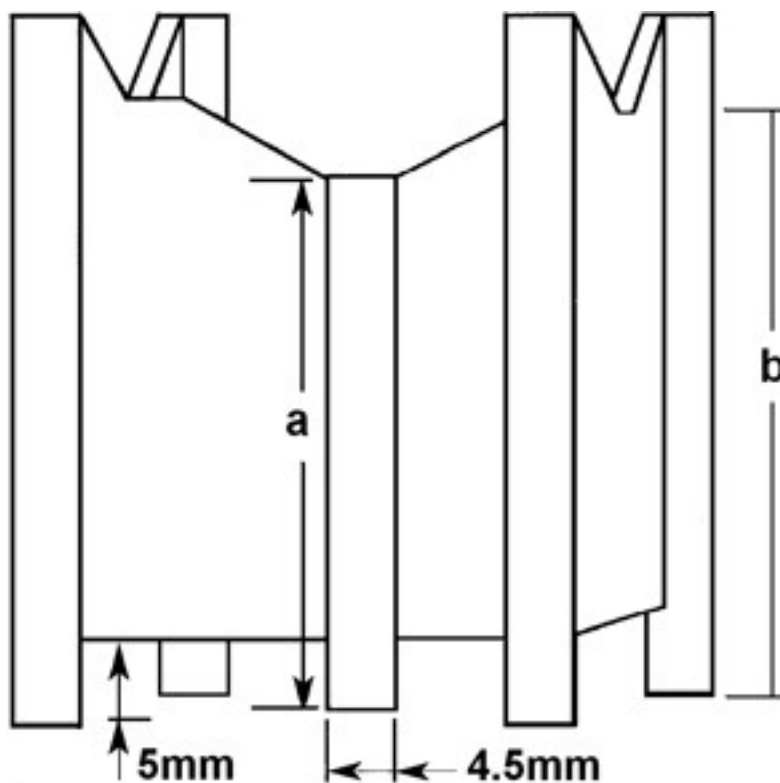
Plastic Bottom Deck Spacer

DIMENSIONS

PRODUCT CODE	HEIGHT		Mass Per Bag Kg
	a	b	
BPDS 15/20	15	20	0.7
BPDS 25/30	25	30	1.1
BPDS 35/40	35	40	1.6
BPDS 45/50	45	50	1.9

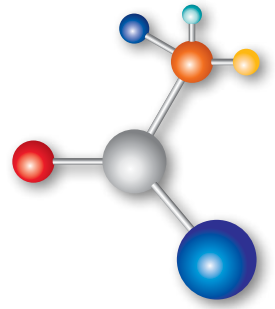
All dimensions are nominal and expressed in millimetres.

All sizes are packed in bags of 100 and pallet quantities of 5,000 pieces.



Refer to Novabone page for heavy duty bottom deck spacers.

Ferrule Support Chairs



Description



An easy-to-use ferrule chair developed to locate “face-up” ferrules in precast panels and tilt-up panels. This chair is designed to locate the (ferrule with antennae cap) to about 1 or 2mm below the panel surface when a 96mm ferrule is used.

A major time saver – the ferrule chair is manufactured to provide a strong, impact resistant support which is non-corrosive and having minimal exposure.



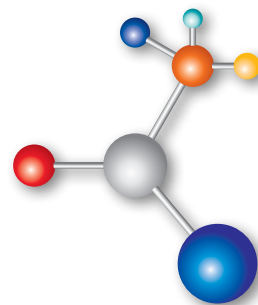
Size Availability

Available to suit a 96mm ferrule for panel thicknesses of 125, 150, 175 and 200mm

Ideal for:

- The Tilt Panel Industry

Ferrule Support Chairs



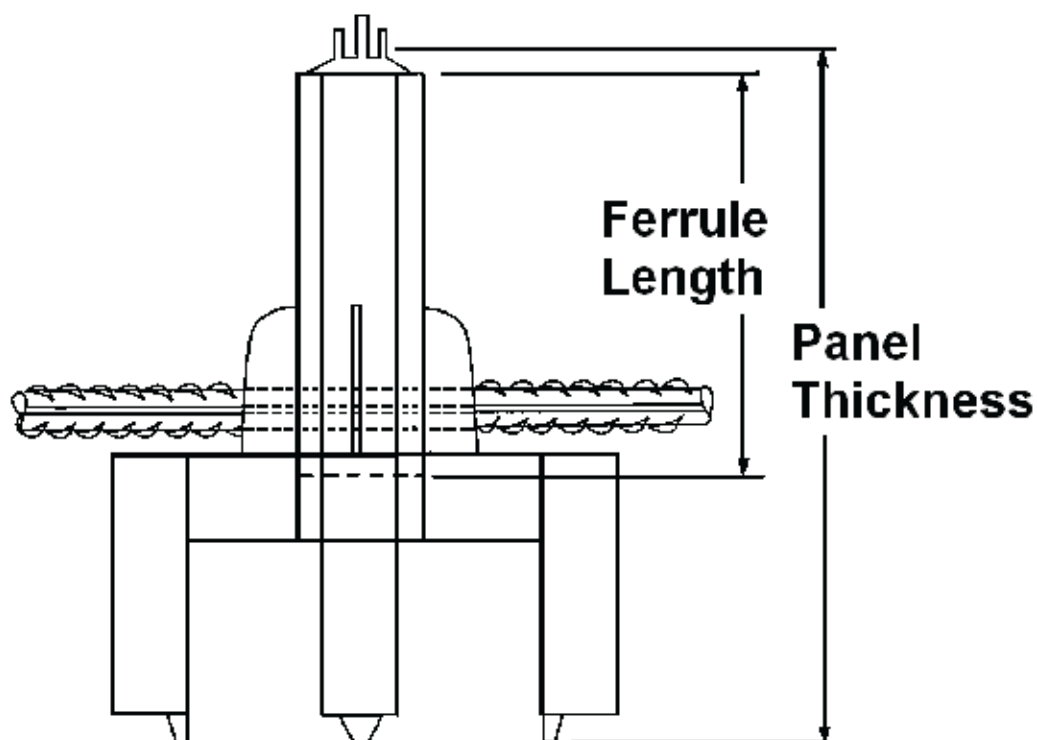
DIMENSIONS

PRODUCT CODE	A	B	Qty per Bag	Mass Per Bag Kg
FWSC 125/96	96	125	50	4.3
FWSC 150/96	96	150	50	4.5
FWSC 175/96	96	175	50	5.5
FWSC 200/96	96	200	50	6.4

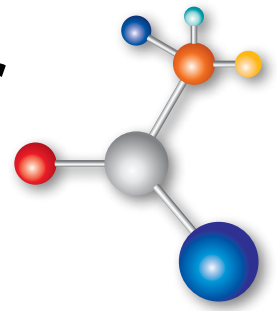
* Antenna Cap located with 1 to 2mm clearance for screeding.

All dimensions are nominal and expressed in mm.

Note: Other ferrule lengths and widths can be accommodated subject to volume and timing.



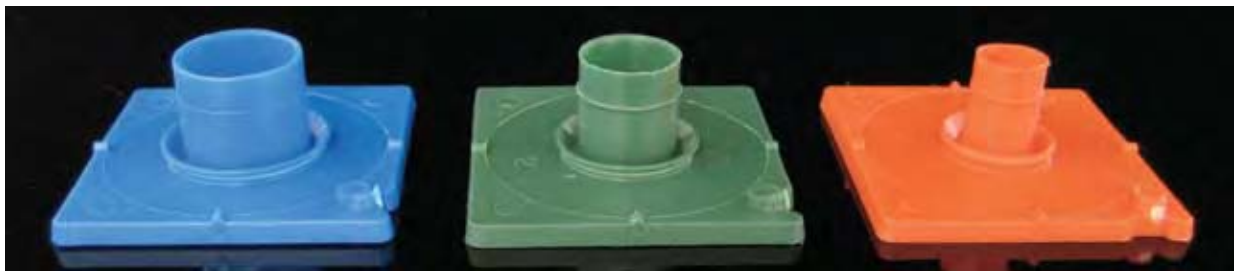
Ferrule Quick Fit Locator



Description

Pushes into the ferrule and releases when the panel is lifted. A special built-in seal prevents slurry leakage into the ferrule. The 45mm square base can be nailed, or will accommodate double sided tape, which can be cut from standard strips.

Product Code	Thread	Colour	Qty per bag	Mass kg per Bag
FWQF 12	M12	Red	100	0.6
FWQF 16	M16	Green	100	0.6
FWQF 20	M20	Blue	100	0.6



Refer to Nailing Plate page for other alternative ferrule locaters.

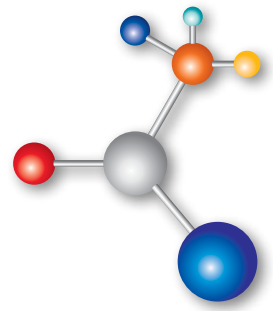


Adhesive Tape

Strong double-sided adhesive strip – approximately 1mm thick.

Product Code	Size
FWGSTRIIP	40.5mm wide x 66m rolls

Glue-on Plates



Description

Plastic glue-on plates are connected to formwork with either double sided tape or an appropriate liquid adhesive. After dismantling the formwork the plate can be easily removed leaving the insert in a 5mm recess.



Product Code	Colour	Thread	Qty per Bag	Mass Kg per Bag
FWGP 12	Red	M12	100	1.1
FWGP 16	Green	M16	100	1.2
FWGP 20	Blue	M20	100	1.2
FWGP 24	Yellow	M24	100	1.2



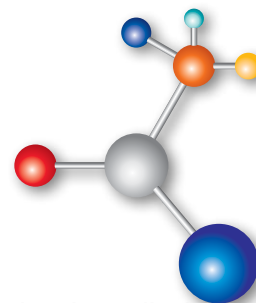
Glue-on Spots

Description

Strong double sided adhesive approximately 1mm thick. Comes completely with backing strips to allow pre-fixing to plates and locators.

Product Code	Size	Qty per pack
FWG SPOT	Approx. 58mm Dia.	100





Nailing Plates

Description



The reusable plastic nailing plate is simply nailed to the formwork, and the ferrule screws on to the thread.

After removing formwork, unscrew the plastic nailing plate from the ferrule to leave a 10mm deep recess. Popular sizes are also available with built-in antennae for easy location of plates after casting. Where coil threaded ferrules are used at bracing locations, a special nailing plate is available.



Product Code	Colour	Qty per Bag	Mass Kg Per Bag
FWNP12	Red	100	0.9
FWNP16	Green	100	1.0
FWNP16A	Lime Green	100	1.0
FWNP 20	Blue	100	1.0
FWNP 20A	Lime Green	100	1.0
FWNP 20C	Brown	100	1.0
FWNP 24	Yellow	100	1.0

A – Available with built-in Antenna.
C – Suits coil thread.

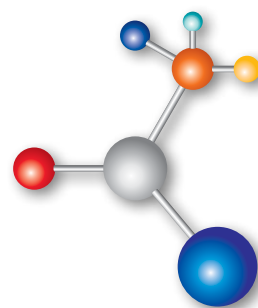
Refer to Quick Ferrule locator page for alternative ferrule locators.



Built-in Antenna



Antennae Caps



Description

Antennae Caps are designed to protect the threads of ferrules while pouring and screeding. They provide effective seal through a tight push fit and a ridge which locks into the thread.

Sizes are colour coded for easy reference.

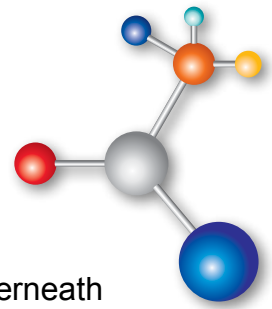


DIMENSIONS

Product Code	Colour	Thread	Height	Qty per Bag	Mass Kg per Bag
FWAC 12	Red	M12	12mm	100	0.1
FWAC 16	Green	M16	16mm	100	0.1
FWAC 20	Blue	M20	20mm	100	0.2
FWAC 24	Yellow	M24	24mm	100	0.2



Packing Shims



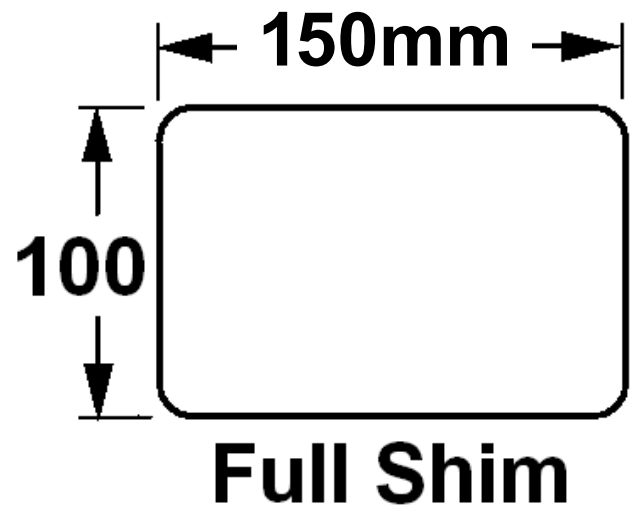
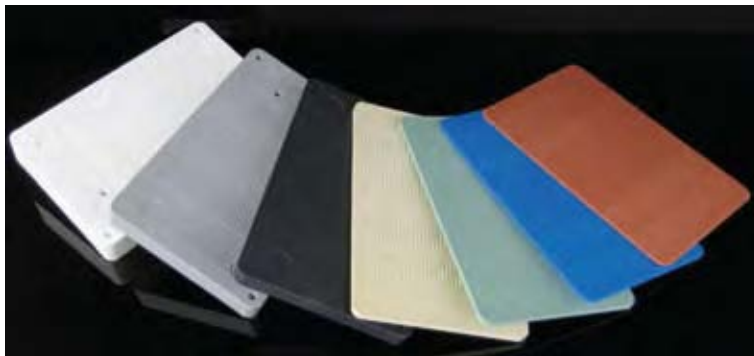
Description

Designed for packing underneath precast or tilt-up concrete panels during their alignment on site, to gain a level with a anti-skid surface.

Colour coded by thickness for ease of selection. The packing shims are manufactured from quality high impact polypropylene and tested with compressive loads up to 20 tonnes.

DIMENSIONS

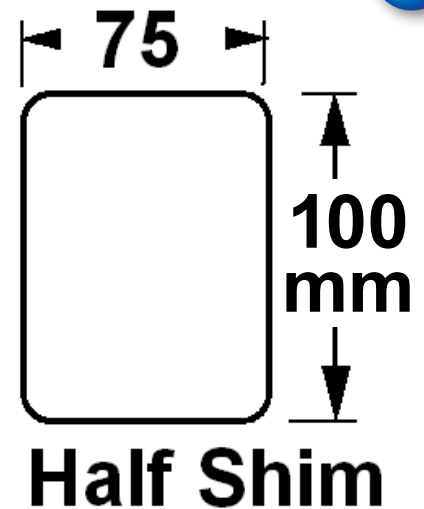
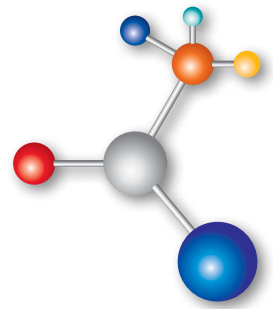
Product Code	Thickness	Colour	Quantity per Bag	Mass Per Bag Kg
SHIM 01	1	Brown	100	1.6
SHIM 02	2	Blue	200	6.1
SHIM 03	3	Green	100	4.6
SHIM 05	5	Yellow	100	7.6
SHIM 10	10	Black	40	6.0
SHIM 15	15	Grey	40	6.9
SHIM 20	20	White	30	9.4



Machinery and tank levelling

Packing Shims

Half Shim



DIMENSIONS

Product Code	Thickness	Colour	Quantity per Bag	Mass Per Bag Kg
SHS 01	1	Brown	200	1.6
SHS 02	2	Blue	400	6.1
SHS 03	3	Green	200	4.6
SHS 05	5	Yellow	200	7.6
SHS 10	10	Black	80	6.0
SHS 15	15	Grey	80	6.9
SHS 20	20	White	60	9.4

Ideal for:

- Commercial and civil applications such as packing under panels, machines, door and window frames.



Packing Shims Horseshoe



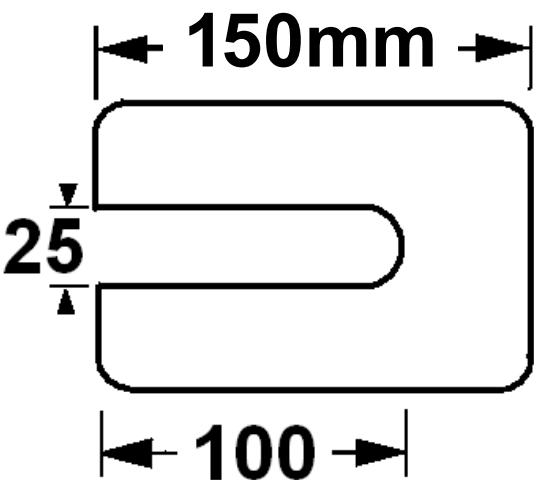
Long Slot

Horseshoe style shims with long and short slots, are available and are used for placement around starter bars, locating bolts and pins etc.

DIMENSIONS

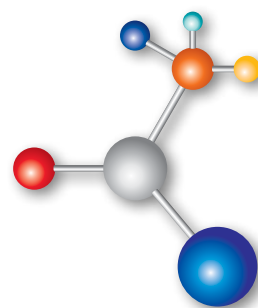
Product Code	Thickness	Colour	Quantity per Bag
SHH 02L	2	Blue	200
SHH 03L	3	Green	100
SHH 05L	5	Yellow	100
SHH 10L	10	Black	40
SHH 15L	15	Grey	40
SHH 20L	20	White	30

*Refer to page 39 for bag weights.



Long Horseshoe Shim

Horseshoe Packing Shims

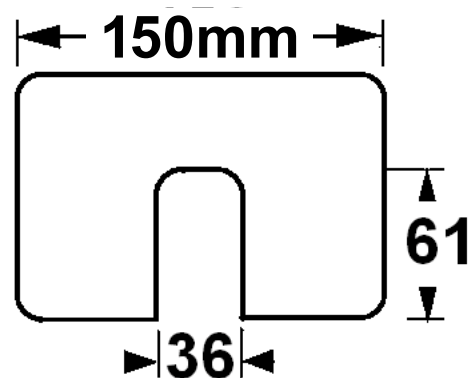


Short Slot

DIMENSIONS

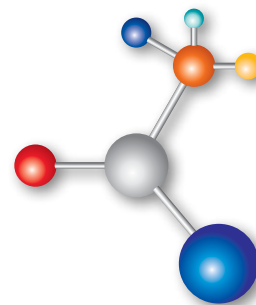
Product Code	Thickness	Colour	Quantity per Bag
SHH 01	1	Brown	100
SHH 02	2	Blue	200
SHH 03	3	Green	100
SHH 05	5	Yellow	100
SHH 10	10	Black	40
SHH 15	15	Grey	40
SHH 20	20	White	30

*Refer to page 39 for bag weights.



Short Horseshoe Shim

Window Shims



Window Shim Long

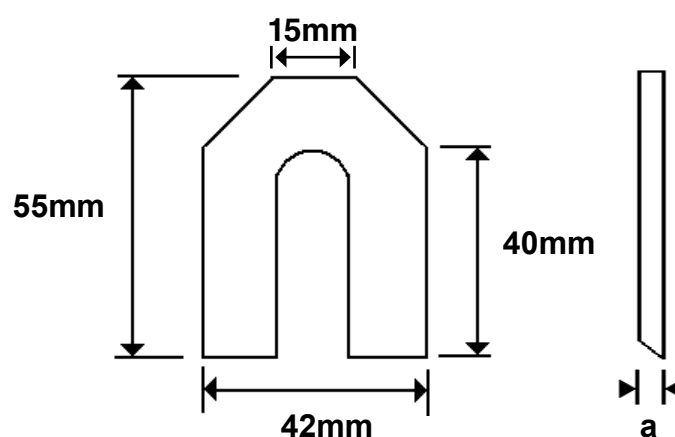
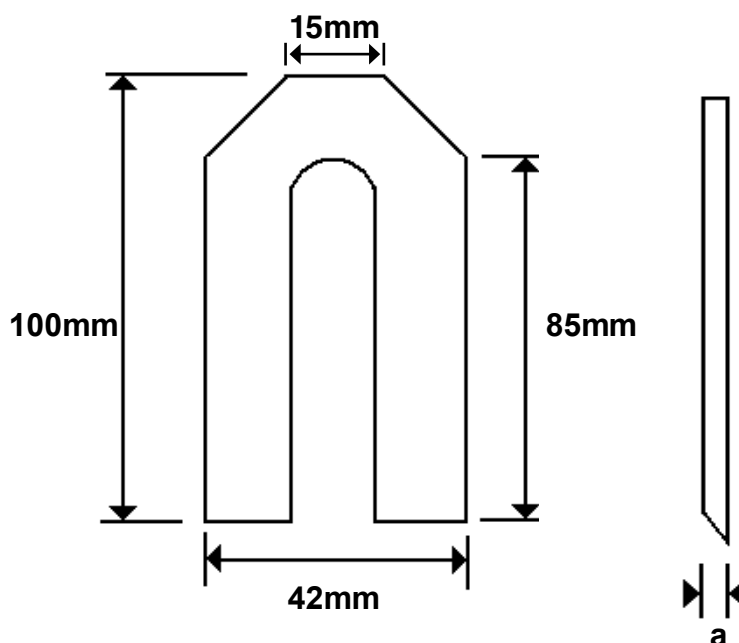


Window Shim Short



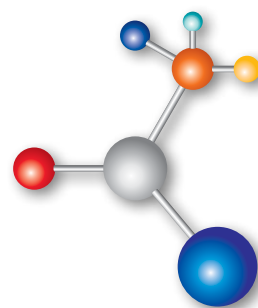
Description

The new Novapacker is a finger shim mainly used for levelling window frames, door frames and battens during their installation on site. The packers are manufactured from a strong durable polymer to withstand high loads and the slot will fit around any bolt diameter up to 15mm.

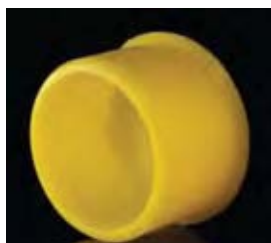


Product Code	Thickness (a)	Quantity / Bag
WSS1	1.0mm	200
WSS2	2.0mm	200
WSS3	3.0mm	200
WSS4	4.0mm	200
WSS5	5.0mm	200
WSS10	10.0mm	200
WSL1	1.0mm	100
WSL2	2.0mm	100
WSL3	3.0mm	100
WSL4	4.0mm	100
WSL5	5.0mm	100
WSL10	10.0mm	100

Panel and Formwork Accessories



REPAIR PLUGS



19mm Diameter plugs for repairing holes in form ply.

Product Code	Qty per bag	Mass kg per 100
FWRP 19	1000	0.2

FERRULE PATCH CAPS



FWFCAP



FWVC80 / 150

Concrete grey patches that are inserted into 20mm ferrules, when props have been removed from the panels. Eliminates grouting of the ferrule holes, even if the ferrules are not perpendicular to the panel face.

Product Code	Diameter	Qty per bag	Mass per bag
FWFCAP	75mm	100	1.6
FWVC80	80mm	100	1.0
FWVC150	150mm	100	4.3

Patch Plates are coloured to a concrete grey and are simply adhered over the voids in the panels with a construction adhesive.

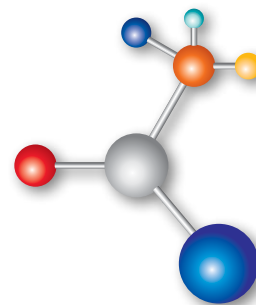
EXPANSION CAPS



Designed with a hinged cap to provide a firm fit over the dowel. Each size is 75mm long with a 10mm internal pin to locate the dowel and create the void for expansion. The relevant dowel size is marked on the end of each cap.

PRODUCT CODE	Qty per Bag / pallet	Mass kg per bag
EXCAP 12	100 / 5000	1.2
EXCAP 16/20	100 / 5000	1.2
EXCAP 24	100 / 5000	1.2

Conduit and Cones



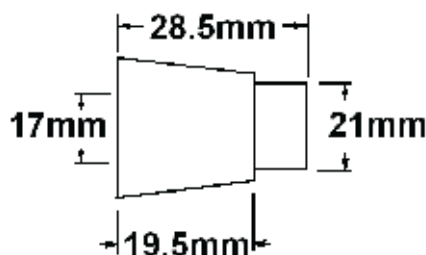
Description

The simple push on plastic cones and conduit are used to provide accurate clearance for formwork tie systems, with 15mm or 20mm tie bars, conduit supplied in 3 metre lengths.

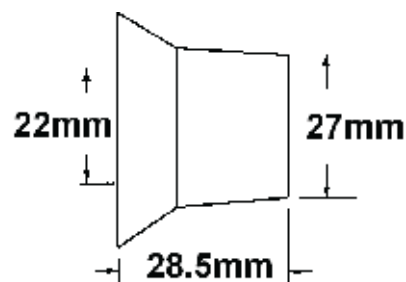


Product Code	Nominal	Qty per Bag	Mass per Bag Kg
FWCC 20	20mm	500	3.3
FWCC 25	25mm	500	5.3

		Bundle	Mass per Bundle Kg
FWCOND20	20mm	25 x 3m lengths	14
FWCOND25	25mm	25 x 3m lengths	20



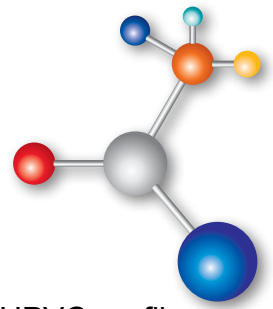
FWCC20



FWCC25

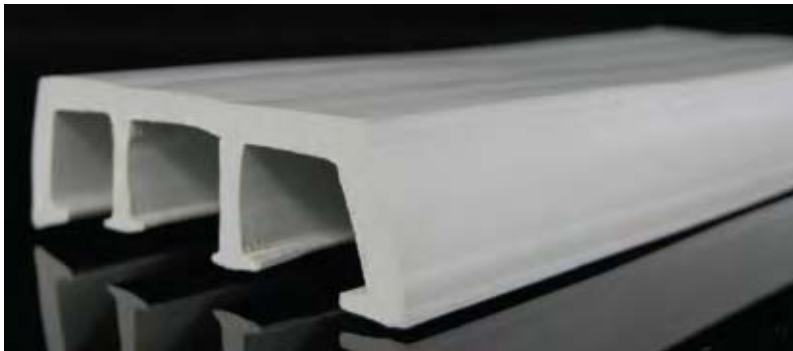


Feature Groove



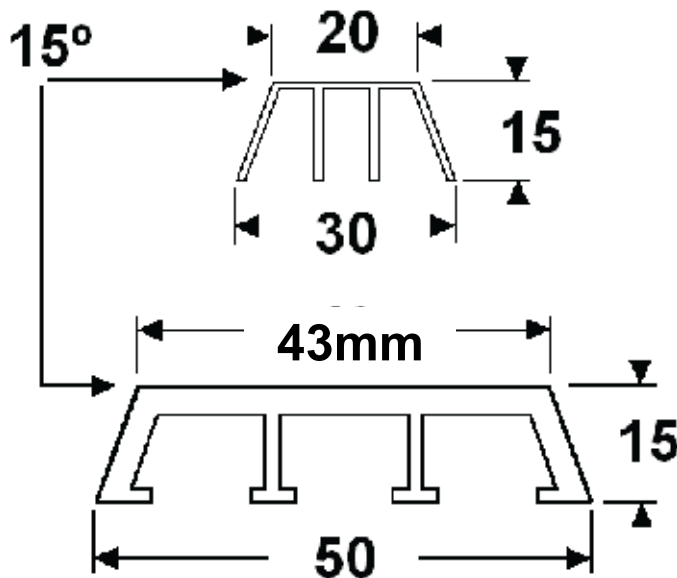
Description

Our feature groove is an extruded UPVC profile designed to provide a decorative groove in precast concrete or tilt-up wall panels.



Features include:

- Sturdy hollow design
- Impact resistant
- Smooth surface facilitates easy removal
- Re-useable
- Can be screwed or adhered to mould base surface

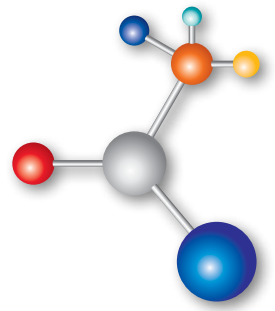


All dimensions are in millimetres

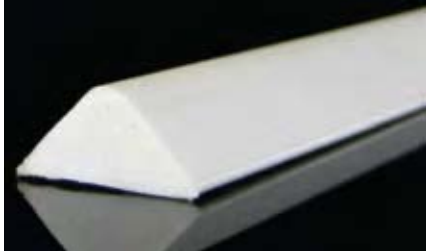
Order Code	Bundle Qty	Mass per Bundle Kg
FRGV 20	30m	7.5
FRGV 40	30m	12.5

3m lengths/10 lengths per bundle.

Fillet and False Joint

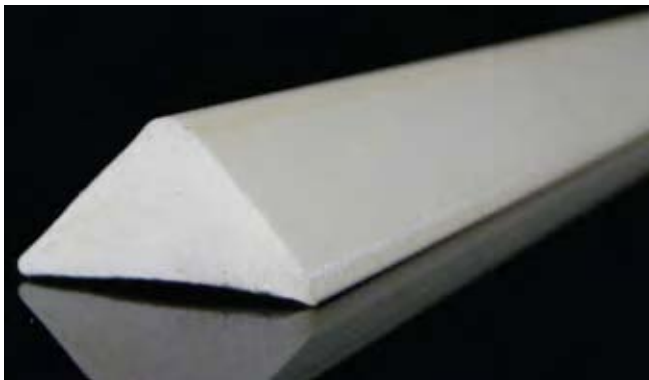


FILLET



Fillet Small Profile

Available in a large or small profile, fillet is nailed or glued to formwork to create a neat chamfer on panel edges. The small profile is also available with the additional nailing tail or strip.



Fillet Large Profile

Ideal For:

- The panel industry



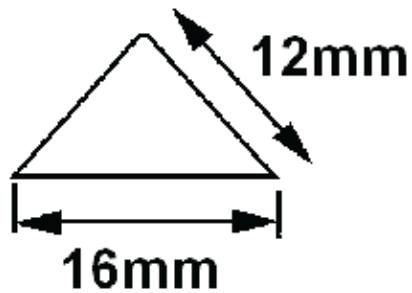
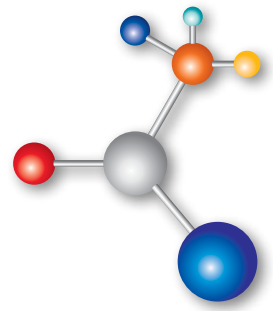
False Joint

FALSE JOINT

For architectural appearances the reusable False Joint (dummy joint) forms decorative joints in panels when casting.

For alternative construction profiles refer to Feature Groove Page.

Fillet and False Joint



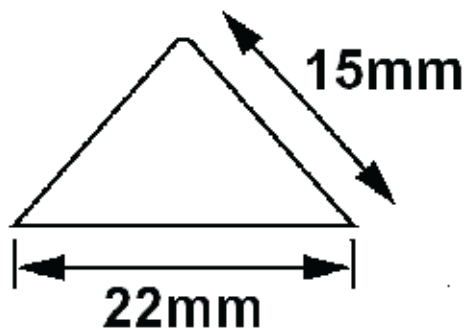
FWFIL12

FILLET 12mm

Order Code: FWFIL 12

3m lengths / 25 lengths per bundle

4kgs / bundle.



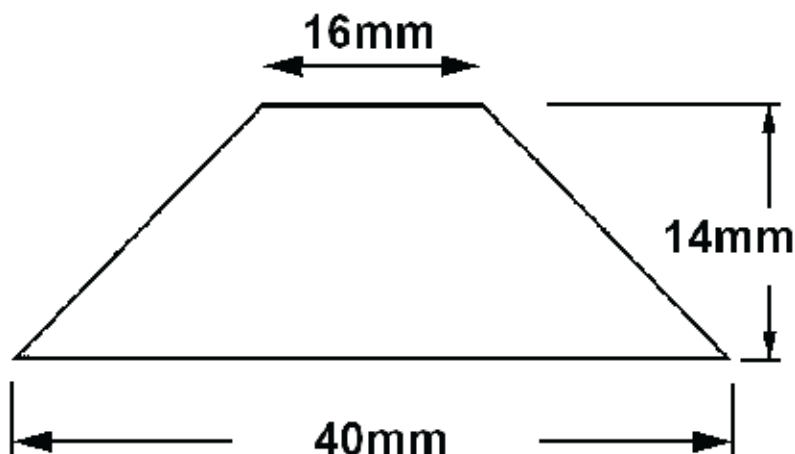
FWFIL19

FILLET 19mm

Order Code: FWFIL 19

3m lengths / 25 lengths per bundle

8kgs / bundle.



FWFJ40

FALSE JOINT

Order Code: FW FJ40/14

4m lengths / 10 lengths per bundle

10kgs / bundle.

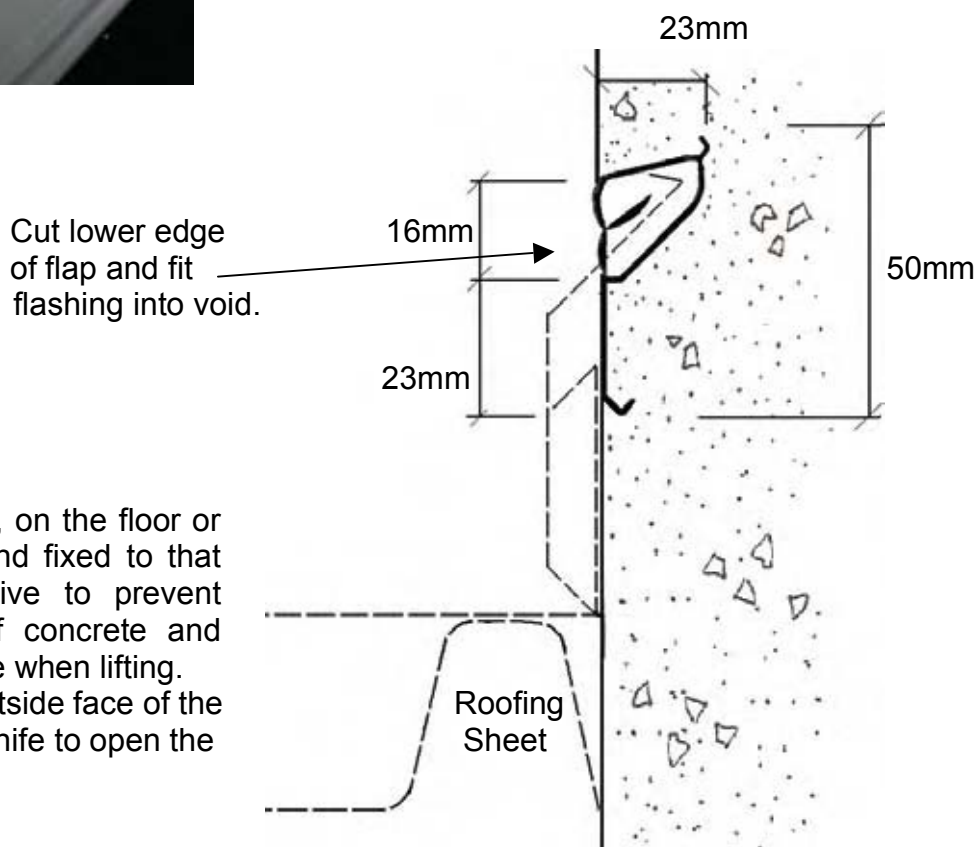
Reglet



Description

The Reglet Extrusion is moulded into the outer edge of a precast concrete panel to provide a continuous weather resistant slot opening for insertion of a sheet metal flashing to allow rainwater, that runs down the outside face of the wall panel, to be shed onto an adjoining roof.

This product saves the need to diamond cut a slot in the panel when in position.

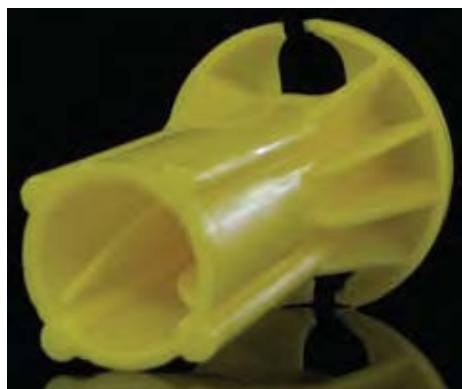
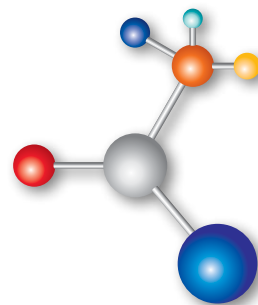


Installation

The Reglet is laid, face down, on the floor or base surface of the mould and fixed to that surface with suitable adhesive to prevent movement during pouring of concrete and allow removal from the surface when lifting. When panel is installed the outside face of the exposed Reglet is cut with a knife to open the closure flap.

ORDER CODE	Meters per Bundle	Bundle length	Mass kg per bundle	Lengths per bundle
REGLET	25m	2.5m	4.0	10

Site Safety



Description

The ReoSok system is designed and intended for use on all projects. The caps are removable and reusable. These caps can be used with scaffolding to reduce the risk of injury from exposed ends.

ReoSok's are manufactured from robust, UV stabilised material and are available in 12 – 20mm and 24 – 36mm.

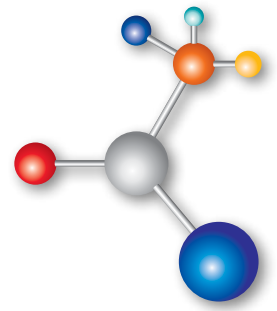


PRODUCT CODE	Qty per Bag / pallet	Mass kg per Bag
RESK 12/20	100 / 5000	2.0
RESK 24/36	100 / 2500	3.0



- ReoSok is a proven system that consistently and successfully prevents injuries.
- Economically used for all projects, easily transportable from one construction site to another.
- Internal ribs within sleeve to hold cap centrally on bar.

Site Safety



Description

Novaplas bar guards or safety caps reduce the chance of cuts and abrasions from exposed reinforcing bars up to 36mm. Barguards will also fit over star pickets and most stakes on safety barriers. Please note that bar guards are not designed for high load vertical impacts, such as someone falling from a height.



PRODUCT CODE	Qty per Bag / pallet	Mass kg per Bag
BARG	100 / 5000	3.6

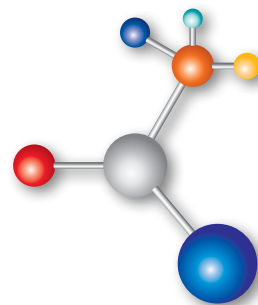
Scaffold End Caps

These yellow caps are designed to fit over exposed scaffold tube ends to increase the visibility and prevent cement entering the tube.

Product Code	Quantity Bag / Pallet	Weight kg bag
Scaffcap	250 / 3000	3.1



Novaguard



Description

The Novaguard is a revolutionary clip-on plastic cap for the prevention of cuts and abrasions experienced on building sites, precast concrete plants, and any area where there are protruding starter bars and star pickets. This cap has a pin which locates in a hole on a standard star picket when clipped on, which prevents the cap from popping off the picket leaving it exposed. Patents appld.

Ideal for:

- Building Sites
- Precast Plants
- Fence Lines

Benefits:

- Locking pin for star pickets
- Covers over 100mm
- Extra visibility
- Tying loop for tape or mesh
- Threading hole for wire



Description	Product code	Quantity per bag / pallet	Mass kg per bag / pallet
Novaguard Yellow 100mm	NGY100	100 / 5000	4.4 / 250
Novaguard Red 100mm	NGR100	100 / 5000	4.4 / 250
Novaguard Yellow 60mm	NGTY60	100 / 5000	3.6 / 200
Novaguard Red 60mm	NGTR60	100 / 5000	3.6 / 200

Polymer Brick Ties



50mm Cavity Ties in Medium duty to satisfy AS/NZ 2699-2000. Rounded ends to prevent injury and central hole to assist bond in mortar.

NI TIE 50



100mm Cavity Ties in Heavy Duty to cater for larger cavities. More than twice the strength and stiffness required by AS/NZ 2699-2000.

NI TIE 100



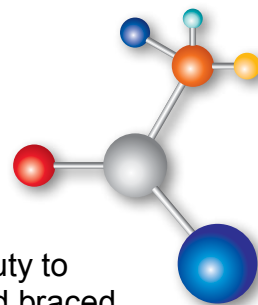
50 – 70mm Acoustic Cavity tie is the standard medium duty Ni-Tie with each end over moulded with a resilient material. The resilience substantially reduces air and structure borne noises. Also reduces impact and vibration in masonry walls.

ACOUSTIC TIE 50

Product Code	Cavity Size	Qty per Bag	Qty per Carton	Mass kg per Bag / Carton
N TIE 50	50mm	100	1000	1.3 / 13.5
N TIE 100	100mm	100	1000	1.9 / 19.5
A TIE 50	50-70mm	100	500	3.3 / 17

- Ni-Ties will not corrode in areas near the sea or industrial zones because they are chemically resistant, unlike galvanised ties that corrode and become ineffective.
- Ni-Ties have rounded edges and are light weight. This makes handling much safer and quicker. Less accidents – no cuts from sharp edges.
- Ni-Ties comply with existing fire ratings for low and medium density housing.

Polymer Brick Ties



STUBBIE TIE 50

50mm face fixed Stubbie Ties in Medium duty to satisfy AS/NZ 2699-2000. Ideal for plywood braced and insulated walls. Every tie is chemically inert.

When fixing to timber – use 1 x 10-12 x 45mm (type 17)
When fixing to steel – use 1 x 10-16 x 25mm (Tec)



VENEER TIE 50

50mm side fixed Veneer Ties in Medium duty to satisfy AS/NZ 2699-2000. Use two fixings to prevent rotation whilst in service. Colour coded to assist in identifying classification in the wall. Ideal for steel and timber stud, brick veneer homes and buildings.

When fixing to timber – use 2 x 10-12 x 45mm (type 17)
When fixing to steel – use 2 x 10-16 x 25mm (Tec)

Product Code	Cavity Size	Qty per Bag	Qty per Box	Mass kg per Bag/carton
S TIE 50	50mm	100	900	1.7 / 15.6
V TIE 50	50mm	100	1000	1.4 / 16.5

- Ni-Tie high strength and stiffness make them ideal for areas subject to intense natural conditions such as high wind, earthquakes and cyclones.
- Ni-Ties eliminate the problem of electrolysis in steel frame houses when using dissimilar metals.
- Ni-Ties have acoustic properties greater than metal ties and the Ni Tie Acoustic Cavity provides even further reduction of noise and vibration transference.
- All Ni-Ties are packaged in UV Stabilized bags.

For more information on our Ni-Ties™ please contact Novaplas.

Display boards available for your trade counter.

T: (08) 9455 2228

F: (08) 9455 2227 E: sales@novaplas.com.au

Novawedge



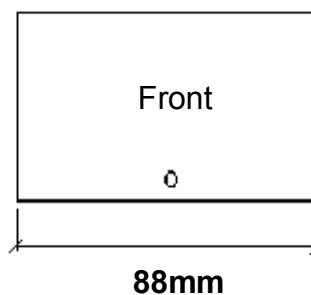
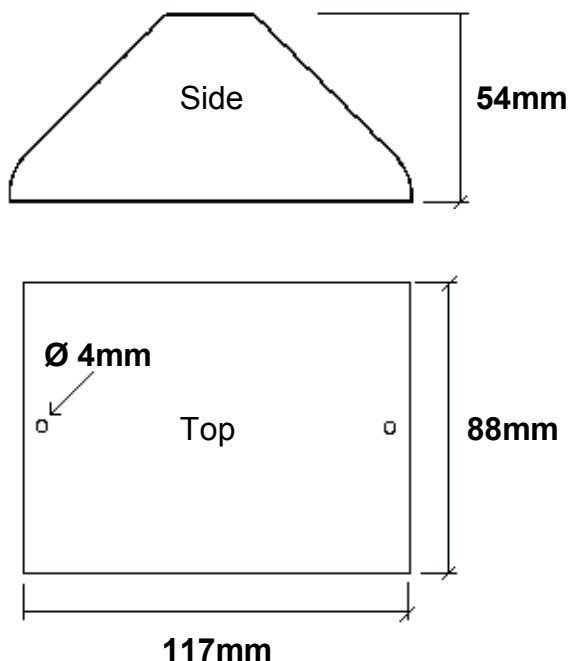
Novawedges are injection moulded for retaining lengths of pipe, tube and drill rods while in transportation or storage in the mining and construction industries.

Novawedges are able to be fastened or adhered to most surfaces.

This product is a replacement for the conventional wooden wedges which are known to split while being fastened.

A fixing hole is provided on each side for nails or screws.

Novawedges are also used as wheel chocks for aircraft when parked or in storage and are supplied with a plastic covered braided wire link of 500mm for ease of handling.



Ideal for:

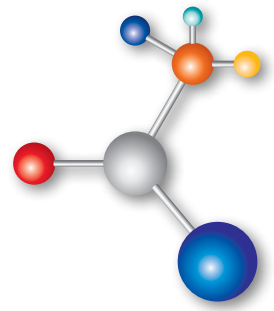
- Mining
- Airfields
- Transport
- Industry



Wheel Chock Kit

Product Code	Mass kg unit / carton	Qty/Carton
Novawedge	380g / 19kg	50
Wheel Chock Kit	772g / 10kg	12

Temporary Fencing Bases



The polymer temporary fencing bases are a fast and effective way of stabilising barricading panels for construction sites or an event that requires crowd control, privacy or to restrict access to pedestrians or vehicles.

Ideal for:

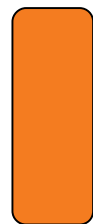
- Construction sites
- Mining sites
- Crowd controlling at shows



Product Code	Weight Unit / Pallet	Pallet Qty
TF20NB	830g / 200kg	150
TF25NB	830g / 200kg	150
TF32NB	830g / 200kg	150
TF40NB	830g / 200kg	150
TF50NB	830g / 200kg	150

Standard nominal bores for posts

20, 25, 32, 40 & 50mm



Which colour matches your need?



Other colours available.

T: (08) 9455 2228

F: (08) 9455 2227 E: sales@novaplas.com.au

Corner Protectors



CABINET CORNER PROTECTORS

The BCP 18 Corner protectors are manufactured for fitting to fibre boards, preformed and solid timber cabinet doors and panels. These are designed to fit 15mm to 18mm board to protect finished product from damage during transport or storage.

Standard colour is black: other colours also available.



Product Code
BCP18

Carton Qty
1000

Carton weight
7.2 kg

BED AND FURNITURE GUARDS

These corner protectors are stapled to the Ensemble or Lounge to prevent damage to the fabric outer shell covering the wooden frame during transport and from impact and abrasion from vacuum cleaners and other objects.

This product can be manufactured from any colour and printed with the brand name of the bed or furniture to which it is to be attached.



Product code
CPBED

Carton Qty
1500

Carton weight
13kg



Tow Ball Protector



This new tow ball protector is an ideal product to cover every protruding tow hitch. Manufactured from a flexible polymer to dampen the impact of sudden contact with person's shins.

Prevents:

- Injury to legs
- Rust to ball
- Lubricant loss



The Shin Guard is simply pushed over the tow ball and attached to the tow hitch chain loops with the integral polymer coated anti-theft wire keeper rope.

Ideal for:

- Automotive Industry brand name advertising. Individual inserts for each brand name required.



Product Code
TBP50

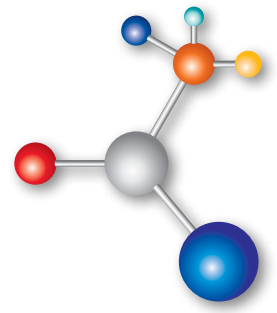
Qty/Carton
24

Mass/Carton kg
10.5

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Grassrings Turf Reinforcement



Grassrings is a 100% recycled injection moulded plastic structural grid system used to stabilise and reinforce grass, to prevent the compaction of the root zone, providing a luxuriant trafficable surface. Each panel is 500mm square.



From this



To this

With this

Prevents compaction of soil making it possible to drive on grass.

BENEFITS

- Open grid provides over 90% root development area and 100% grass cover.
- Grid is flexible – will follow undulations.
- Manufactured from 100% recycled resistant polymer.
- Easy and fast to install including cutting around borders, trees etc.
- Provides storm water drainage and retention onsite.
- The ring design is the strongest shape for grass paving in that it has no weak corners.
- Grassrings will meet and exceed all loading criteria.
- Supplied in easy to handle 2.5m² ready to assemble packs.
- Porous surface generally provides great percolation rate to the natural ground.



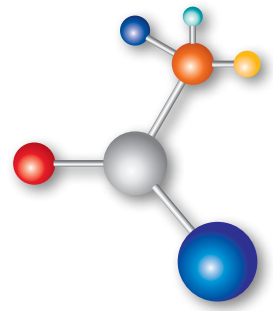
Grassrings Australia

sales@novaplas.com.au

PH: (08) 9455 2228



Grassrings Turf Reinforcement



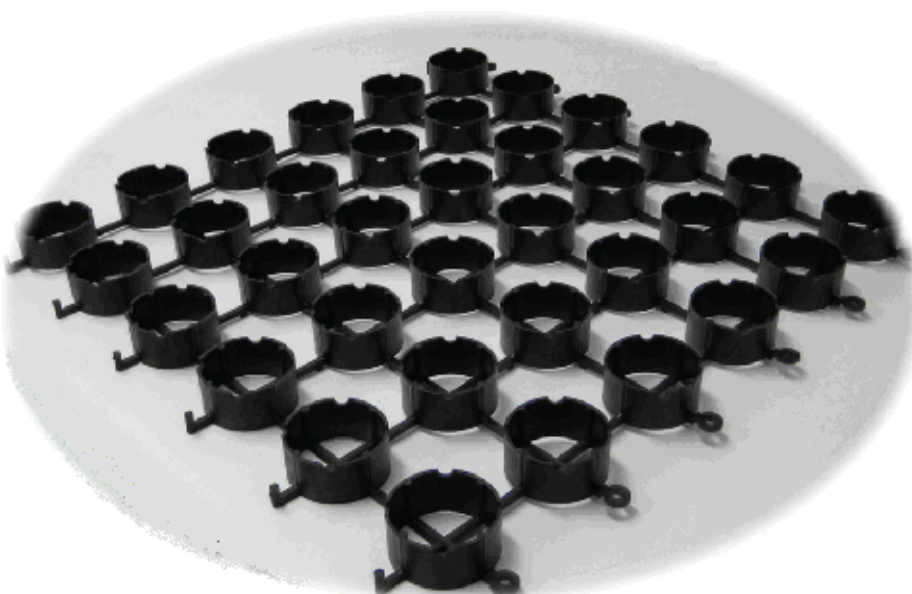
Stone Drive Ways



Office Parking



Golf Courses



500mm x 500mm Ground Stabilising Module

- ✓ Stone Drive Ways
- ✓ Extra Home or Office Car Parking
- ✓ Maintenance Vehicle Access
- ✓ Emergency Access Lanes
- ✓ Golf Courses
- ✓ Airfields
- ✓ Environmentally Friendly
- ✓ Verge Parking



Beach Access

Golf Course Testimonial

"Management were skeptical at first because of the initial costs of building walls and installing grass rings but the end result has won them over as cart damage in these areas has been minimal with no ongoing costs. In fact, it has saved us money in the long-term by not having to replace the turf in affected areas."



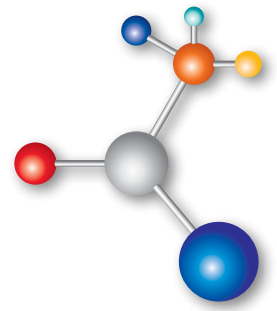
Event Parking

Grassrings Australia

sales@novaplas.com.au

PH: (08) 9455 2228

Plastic Injection Moulding



Innovative Precision Plastics

Novaplas Pty Ltd has been injection moulding quality plastic components in excess of 25 years for a variety of industries such as:

- Building
- Mining
- Electrical
- Food
- Security
- Furniture
- Marine
- Agriculture
- Sports
- Automotive
- Research
- Aquaculture
- Electronic
- Scientific

Assurance of our quality and efficient production is supported with the new technology machinery recently installed. With a wide range of shot size and clamping tonnage these machines are capable of moulding with multiple cavity moulds resulting in consistent high production volume.

Novaplas offers a full customer service including assembly of components, printing and packaging through to delivery worldwide.



Resin



Mould

FROM CONCEPT
TO COMPLETION

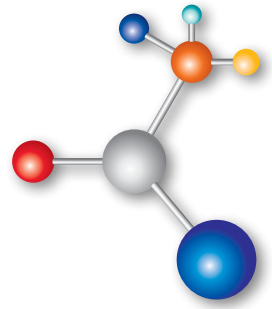


Injection Moulding Machine



Molten Plastic Unit

Plastic Reinforcement Spacers for Concrete



NOVAPLAS

Plastic spacers for the location of reinforcement bar or mesh used in concrete may differ in shape, size, material, application and other properties.

Consideration must be given to the forces that will apply to the spacers, and therefore the consumer is responsible for the individual determination of the type and amount of spacers to be used for each application.

The following factors should be considered:

- spacers should not turn, fall or move in any manner after application.
- spacers must be firmly attached to the reinforcement.
- spacers must not be largely deformed by the forces applied to them.
- spacers must provide stable properties at differing ambient temperatures.

Whilst Novaplas Pty Ltd and/or its employees (the company) may make recommendations as to the use of particular products, the company has no influence over the use and conditions under which the spacers are to be placed and therefore no guarantee can be given, nor will liability be accepted for the use of the products supplied by the company.



EXPRESS ORDER FORM

INVOICE ADDRESS

Company: _____

Postal Address: _____

_____ Post Code: _____

Address: _____

_____ Post Code: _____

Telephone: (____) _____ Fax: (____) _____

Purchase Order No.: _____

Ordered By: _____

Position: _____ Signature: _____

Novaplas Pty Ltd
ABN 11 009 408 780

17 Catalano Road
Canning Vale 6155
PO Box 1432
Western Australia

Tel: (08) 9455 2228
Fax: (08) 9455 2227
info@novaplas.com.au

DELIVERY DETAILS

Delivery address: _____

Preferred Delivery Method:

☐ Please ship using Novaplas delivery method
(Freight charge will apply)

☐ Please deliver via: _____
Telephone: (____) _____ Account No.: _____

MY ORDER:

Product Code	Description	Quantity	Unit Price	Total

Payment Details:

☐ Please invoice my account

☐ Please charge my credit card

Delivery Charge:

Sub Total:

GST Amount:

Total Due:

**In placing this order you agree to Novaplas Pty Ltd standard terms and conditions of sale.

Credit Card Details

MasterCard ☐ Visa ☐

Card Holder's Full Name: _____

Card No.

Expiry Date: ____/____ Card Holders Signature: _____

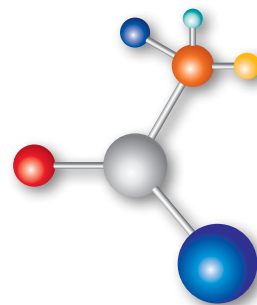
A faint, light gray background image of a molecular structure, possibly a protein or a complex molecule, overlaid on a grid of horizontal lines. The structure consists of several large, light gray spheres connected by thin, light gray rods, forming a complex, branching shape. The spheres are of varying sizes, and the rods are of varying lengths and orientations. The entire structure is centered on the page, with the horizontal lines providing a grid-like background.



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NOVAPLAS



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NOVAPLAS



Latest technology machinery with a wide range of shot size and clamping tonnage ensure consistent quality of product and efficient production times.



Novaplas Pty Ltd

08 9455 2228

17 Catalano Road
PO Box 1432
Canning Vale WA 6155

T: (08) 9455 2228
F: (08) 9455 2227
E: info@novaplas.net.au

novaplas.com.au