PSA

PRODUCT CATALOGUE

VERSION-02-052023

Since 1996 PSA has proudly supported Australia's precast concrete industry with a range of quality consumables and lifting products, technologies, and specialty services. With substantial product development and growth in recent years our capacity has grown to offer a diverse range of value-added products and services into precast construction, as well as commercial construction, and civil infrastructure.

Our national growth means our workforce includes highly seasoned technical specialists, engineers and product developers, allowing us to deliver even smarter end-to-end products and services. At PSA, we work closely with customers, developers, architects and structural engineers to ensure our precast concrete technologies and products not only meet the demands of today's construction industry but exceed the expectations of our valued clients.

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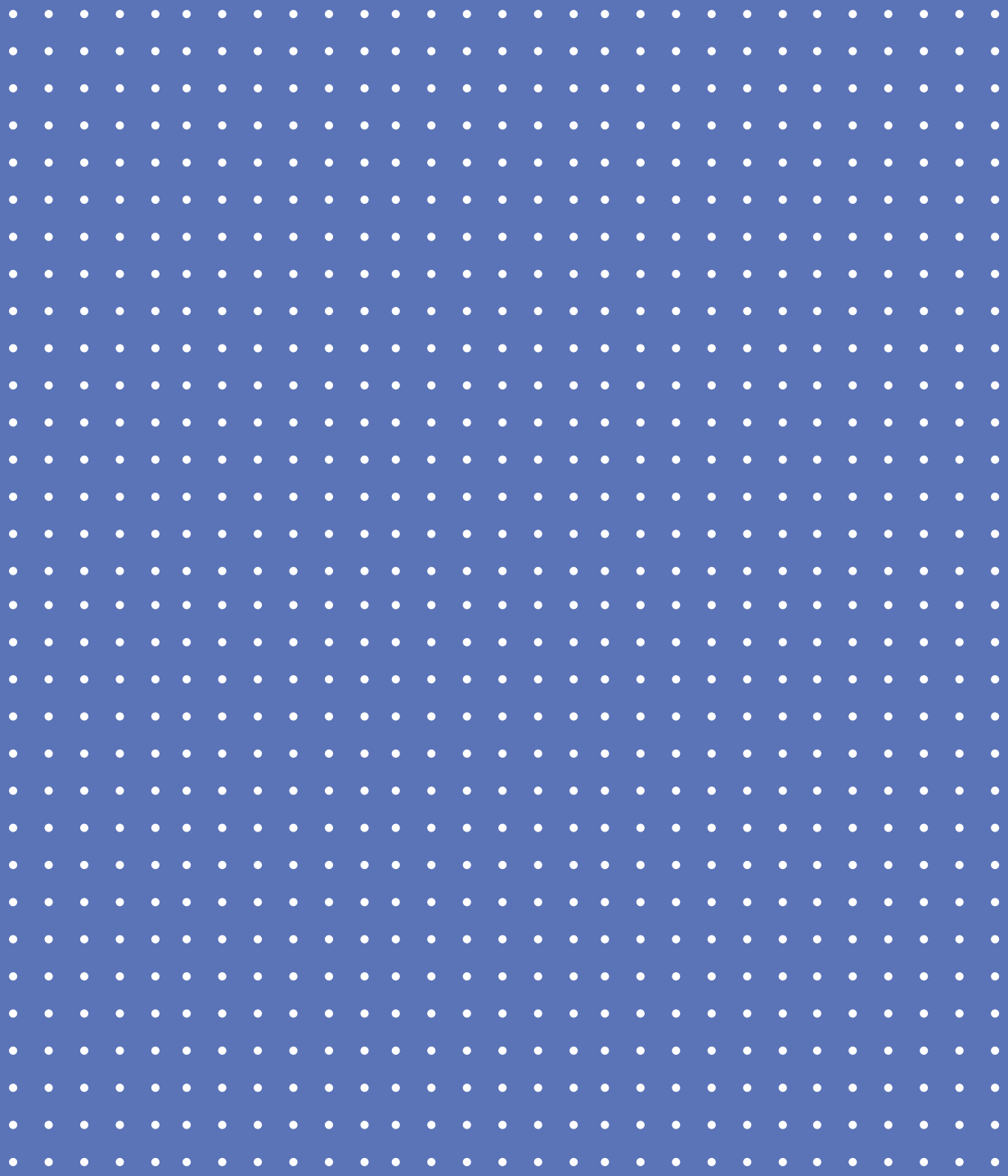
PSA THREADBAR



PSA Threadbar and fittings offer highly versatile continuous reinforcing bar solutions within concrete, suitable for all applications, sizes, and configurations. At a standard 500MPa grade, PSA Threadbar provides engineers with endless solutions, which brings value through ease of design. The continuously threaded bar can be cut, allowing quicker attachment of fittings, improving end user simplicity, installation processes, and constructability.

PSA THREADBAR

PSA THREADBAR SYSTEM

The PSA Threadbar System consists of 500 MPa grade course threaded, hot rolled steel bar, with corresponding coupler, threaded insert, nut and accessories. The system enables easy connections, conforming to AS/NZS4671, AS3600 and is ACRS approved. The left hand fully threaded bar can be cut and joined at any point with couplers. Bars can be securely anchored with the use of threaded inserts at their ends. The robust, coarse pitch thread-form, ensures self-cleaning of the thread. PSA Threadbar may also be supplied as a fully galvanised system.

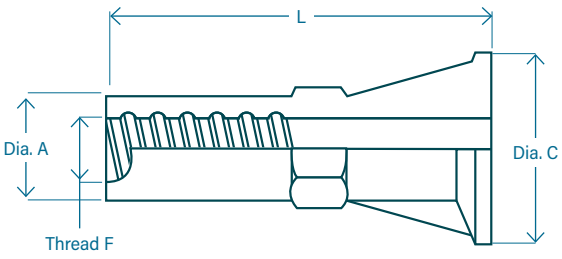
PSA THREADBAR - STARTER BARS		
CODE	**DESCRIPTION**	**BUNDLE QTY**
PSB12540	12mm PSA Threadbar x 540mm	25
PSB16660	16mm PSA Threadbar x 660mm	10
PSB20850	20mm PSA Threadbar x 850mm	10
PSB251150	25mm PSA Threadbar x 1150mm	10
PSB281280	28mm PSA Threadbar x 1280mm	10
PSB321450	32mm PSA Threadbar x 1450mm	10
PSB401800	40mm PSA Threadbar x 1800mm	1

PSA THREADBAR - STOCK LENGTHS		
CODE	**DESCRIPTION**	**LENGTHS**
PTB12	12mm PSA Threadbar LH x 2.95m	1
PTB16	16mm PSA Threadbar LH x 2.95m	1
PTB20	20mm PSA Threadbar LH x 3.00m	1
PTB25	25mm PSA Threadbar LH x 2.95m	1
PTB28	28mm PSA Threadbar LH x 2.95m	1
PTB32	32mm PSA Threadbar LH x 2.95m	1
PTB40	40mm PSA Threadbar LH x 2.95m	1

Please enquire for 11.8m/12m bars, or for in house processing.

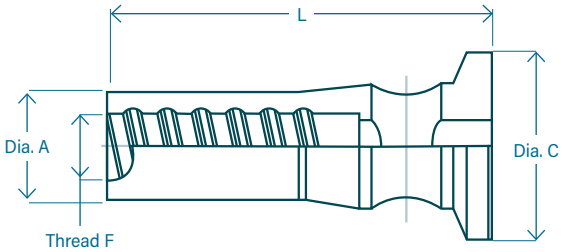
PSA Threadbar

PSA THREADBAR - THREADED INSERTS						
CODE	DESCRIPTION	THREAD F MM	LENGTH L MM	BODY DIA. A MM	FOOT DIA. C MM	BOX
PTI12	12mm PSA Threaded Inserts	12	100	22	38	75
PTI16	16mm PSA Threaded Inserts	16	118	30	50	30
PTI20	20mm PSA Threaded Inserts	20	148	35	64	20
PTI25	25mm PSA Threaded Inserts	25	191	43	80	10
PTI28	28mm PSA Threaded Inserts	28	200	46	96	5
PTI32	32mm PSA Threaded Inserts	32	210	55	101	5



PSA Threadbar Threaded Insert

PSA THREADBAR - REBATE THREADED INSERTS						
CODE	DESCRIPTION	THREAD F MM	LENGTH L MM	BODY DIA. A MM	FOOT DIA. C MM	BOX
PTI12R	12mm Threaded Inserts for Rebates	12	78	22	39	60
PTI16R	16mm Threaded Inserts for Rebates	16	96	30	51	30



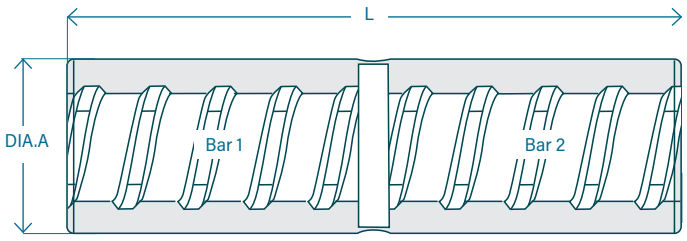
PSA Threadbar Rebate Threaded Inserts

PSA THREADBAR - COUPLERS

Couplers allow PSA Threadbar to be joined or extended reliably and efficiently, anywhere along its length. Includes a mid stop to maintain equal embedment of each connected bar.

CODE	DESCRIPTION	THREAD MM	BODY DIA. A MM	LENGTH L MM	BOX
PTC12	12mm PSA Threadbar Coupler	12	22	60	100
PTC16	16mm PSA Threadbar Coupler	16	32	90	25
PTC20	20mm PSA Threadbar Coupler	20	36	105	20
PTC25	25mm PSA Threadbar Coupler	25	40	115	10
PTC28	28mm PSA Threadbar Coupler	28	45	125	10
PTC32	32mm PSA Threadbar Coupler	32	52	140	10
PTC40	40mm PSA Threadbar Coupler	40	65	160	5

PSA Threadbar Coupler



PSA Threadbar Coupler

PSA THREADBAR LOCK NUTS

Lock nuts are to be used at each end of the couplers to prevent any potential movement of the assembled joint.

CODE	DESCRIPTION	A/F	LENGTH	BOX
TBLN12	12mm PSA Threadbar Lock Nut	19	20	50
TBLN16	16mm PSA Threadbar Lock Nut	32	30	50
TBLN20	20mm PSA Threadbar Lock Nut	32	40	25
TBLN25	25mm PSA Threadbar Lock Nut	41	40	25
TBLN28	28mm PSA Threadbar Lock Nut	41	45	10
TBLN32	32mm PSA Threadbar Lock Nut	50	50	10

Also available in a full bar break hex nut.

PSA Threadbar Lock Nut

PSA Threadbar Locater Plates

PSA - THREADBAR LOCATOR PLATES

PSA Threadbar locator plates compliment the PSA Threadbar fittings. Crosshair recessed and internal driver slots allow for easy removal.

PSA- THREADBAR LOCATOR PLATES

CODE	DESCRIPTION - ALL COLOURED DARK GREEN	BAG
LTLP12	12mm PSA Threadbar Left Hand Threaded Locator Plate	100
LTLP16	16mm PSA Threadbar Left Hand Threaded Locator Plate	100
LTLP20	20mm PSA Threadbar Left Hand Threaded Locator Plate	100
LTLP25	25mm PSA Threadbar Left Hand Threaded Locator Plate	100
LTLP28	28mm PSA Threadbar Left hand Threaded Locator Plate	50
LTLP32	32mm PSA Threadbar Left Hand Threaded Locator Plate	50
LTLP40	40mm PSA Threadbar Left Hand Threaded Locator Plate	50
PLP12	12mm PSA Threadbar Push-On Locator Plate	100
PLP16	16mm PSA Threadbar Push-On Locator Plate	100

BAR BOX ASSEMBLES

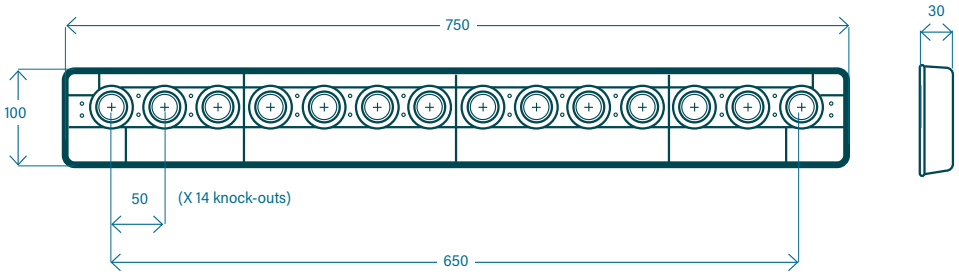
The PSA Bar Box is an economical plastic rebate, designed to fit threaded inserts and couplers in floor to wall connections. These may be fastened to formwork with mechanical fasteners or directly to the reinforcement with tie-wire.

The PSA Bar Box is designed as a tapered box that forms a key into the wall for the slab connection and has perforated reference knock-outs, to create 27mm diameter holes at 50mm centres, whilst providing clearance to avoid clashing with wall reinforcement. The box is fully sealed with a push-tight cover.

Box Dimensions: L 750mm x W 100mm x H 30mm with knock-out spacing at 50mm. Plastic bolt sizes: 12mm, 16mm, 20mm and 25mm are available to suit PSA Threadbar fittings.

CODE	DESCRIPTION	PACK
BB16F3-300	Bar Box assembled 16mm Threaded Insert @ 300mm spacing (3 x PTI16)	1
BB16F4-200	Bar Box assembled 16mm Threaded Insert @ 200mm spacing (4 x PTI16)	1
BB16F5-150	Bar Box assembled 16mm Threaded Insert @ 150mm spacing (5 x PTI16)	1
BB20F4-200	Bar Box assembled 20mm Threaded Insert @ 200mm spacing (4 x PTI20)	1

Other configurations available upon request



Bar Box

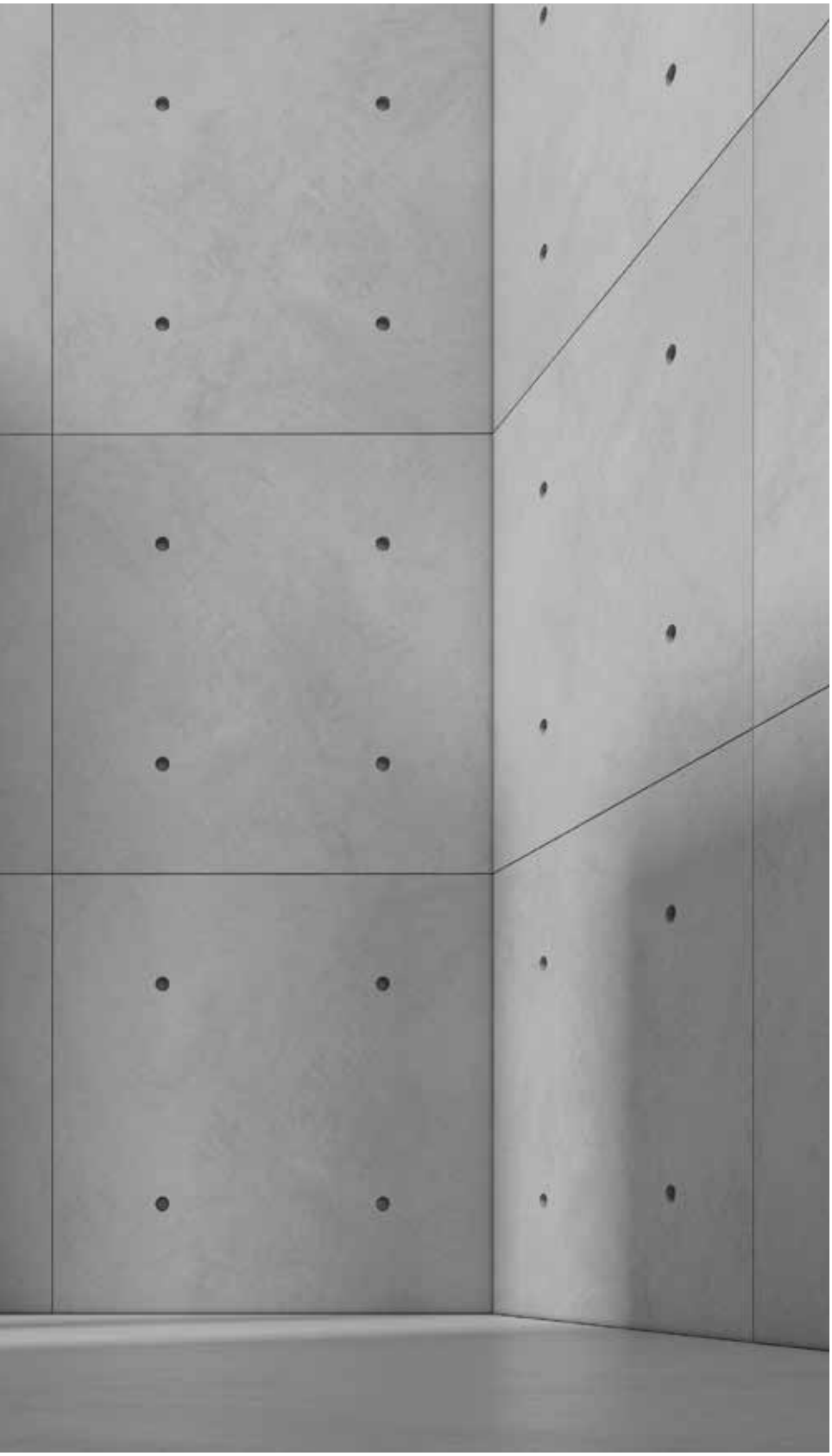
Plastic Bar Box and Bolts

LIFTING SYSTEMS

PSA has developed unique edge and face lifters for precast and tilt-up panels, as well as other precast elements. Conforming to AS3850, the range of lifters (up to 10 tonnes), requires the one type of lifting clutch only, eliminating potential error and saving time, both at the yard and on site. In addition the universal lifting system from DSI Arteon has been successfully used for more than 30 years and ensures the safe lifting and placement of precast elements. PSA stocks and has affiliated access to a full range of anchors and accessories for up to 32T working loads; plus higher loads within the Lifting Loop range.

All lifting components can be provided with CE certificates. Materials and load ratings conform to the strict requirements of DSI Arteon and AS3850. Without knowledge of the full design criteria, final determination and selection of a product for a specific application, resides with the end user. PSA can assist by reviewing your designs based on the load and performance characteristics of our products. In-House Design Services for your lifting requirements can be provided by PSA. Please contact our engineers for an appraisal of the work requirements.

LIFTING SYSTEMS



PSA LIFTMX™

Introducing PSA LiftMX™, an innovative edge and face lifting system accommodating concrete elements upwards of 125mm thick. With revolutionary patent-pending design, PSA LiftMX is proven through vigorous testing to meet numerous configurations. Suitable for commercial, residential and civil applications, PSA LiftMX is engineered for strength, versatility and easy use, from factory to site. Its cutting-edge design reduces visual cracking and spalling and maximises smooth engagement and manoeuvring. Compliant to AS3850.

Performance in concrete will depend on embedment depth, concrete strength at the time of lift and edge distances. Nominated capacities are in Working Load Limits (WLL) and incorporate the minimum Factor of Safety (FOS) of 2.25. Please refer to the PSA engineering team for more details.

PSA LIFTMX™ EDGE LIFTERS

A compact, light-weight edge lifting system designed for ease of use and service in congested areas. Constructed from strong alloy steel for design efficiency

CODE	DESCRIPTION	CRATE
LME08	PSA LiftMX Edge Lifter Galvanised - 8 Tonne	250
LME10	PSA LiftMX Edge Lifter Galvanised - 10 Tonne	250
LME15	PSA LiftMX15 Edge Lifter Galvanised - 15 Tonne	100

PSA LiftMX Edge Lifter 8 Tonne

PSA LiftMX Edge Lifter 10 Tonne

PSA LiftMX Edge Lifter 15 Tonne

PSA LIFTMX™ FACE LIFTERS

- PSA LiftMX™ Face Lifters have been designed to use the same clutch as the PSA LiftMX 10 tonne Edge Lifters.
- Reusable moulded void formers, that also accommodates the locator plate and antennae for easy removal.
- Sturdy chairs with varying heights that accommodate common panel thicknesses.

CODE	DESCRIPTION	BOX
LMF07-095	PSA LiftMX Face Lifter - 7 Tonne - 95mm	20
LMF07-120	PSA LiftMX Face Lifter - 7 Tonne - 120mm	20
LMF07-145	PSA LiftMX Face Lifter - 7 Tonne - 145mm	20
LMFC30	PSA LiftMX Face Lifter Chair 30mm + 120mm Face Lifter to suit 150mm panel/145mm Face Lifter to suit 175mm panel	50
LMFC35	PSA LiftMX Face Lifter Chair 35mm + 145mm Face Lifter to suit 180mm panel	50
LMFC55	PSA LiftMX Face Lifter Chair 55mm + 120mm Face Lifter to suit 175mm panel/145mm Face Lifter to suit 200mm panel	50

PSA LiftMX Face Lifter Assembly

PSA LiftMX Face Lifter 7 Tonne – 120mm

PSA LiftMX Face Lifter Chair

PSA LIFTMX™ CLUTCH

PSA's innovative clutch mechanism provides the user with optimal safety operation. When engaging the lift anchor, the safety system self-locks the clutch handle, restricting any accidental or unforeseen movement. Disengagement requires simple mechanical movement of the locking trigger, by hand or remote rope release.

Available in our complete clutch format for in-yard activity, or as a clutch torus only without the lifting shackle, for attachment to any preferred chain setup that best suits on-site lifting requirements.

Components and assemblies are tested in accordance with AS3850 with results NATA certified.

CODE	DESCRIPTION	PACK
LMC10	PSA LiftMX Clutch - 10 Tonne	1
LMC10-SAF	PSA LiftMX Safety Clutch - 10 Tonne	1
LMC10-SAFTOR	PSA LiftMX Safety Clutch Without Shackle - 10 Tonne	1
LMC10-TOR	PSA LiftMX Clutch Without Shackle - 10 Tonne	1
LMC15-SAF	PSA LiftMX15 Safety Clutch - 15 Tonne	1
LMC15-SAFTOR	PSA LiftMX 15 Safety Clutch Without Shackle - 15 Tonne	1

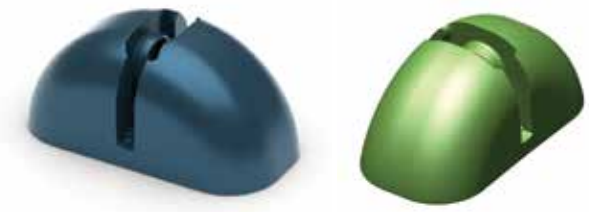
PSA LiftMX Clutch

PSA LIFTMX™ VOIDS + ACCESSORIES

PSA LiftMX void formers are reusable. Available in three types. plain, with plate recess and with brass threaded inserts. Plastic and metal locater plates are available for use with the PSA liftMX plate recess void formers (LMVP). Used to securely fix PSA LiftMX lifters to all types of forms. Plastic and metal locater plates used in conjunction with LMVP helps prevent slurry ingress for face lift applications. Optional antennae sold separately.

CODE	DESCRIPTION	PACK
LMV	PSA LiftMX Void without Plate Recess	10
LMVP	PSA LiftMX Void with Plate Recess	10
LMVT	PSA LiftMX Void with Threaded Inserts	10
LMPLP	PSA LiftMX Void Plastic Locator Plate	50
LMA	PSA LiftMX Antennae	100
LMV15	PSA LiftMX15 Void Former	10
LMVP15	PSA LiftMX15 Void Former with Plate Recess	10

Custom metal locator plates may be supplied to order



PSA LiftMX Void

PSA LiftMX Void without Plate Recess

PSA LiftMX Void with Plate Recess

PSA LiftMX Void with Threaded Inserts

PSA LiftMX Antennae

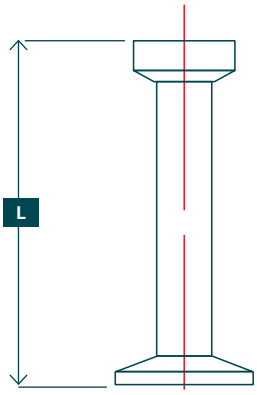
PSA LiftMX Void Plastic Locator Plate

PINHEAD LIFTER

The pinhead lifters are cast into precast or tilt-up elements and provide a safe and convenient system for lifting. All pinhead lifters are produced from material that complies with AS3850 when tested; supplied in a galvanised finish. Each rated capacity type is available in a range of popular lengths.

PINHEAD LIFTERS 1.3 SERIES & 2.5 SERIES		
CODE	**DESCRIPTION: SERIES X LENGTH (L)**	**BOX**
1.3 SERIES		
LA01045	1.3 Series Pinhead Lifter Galvanised x 45mm	300
LA01055	1.3 Series Pinhead Lifter Galvanised x 55mm	300
LA01065	1.3 Series Pinhead Lifter Galvanised x 65mm	300
LA01085	1.3 Series Pinhead Lifter Galvanised x 85mm	200
LA01120	1.3 Series Pinhead Lifter Galvanised x 120mm	200
LA01240	1.3 Series Pinhead Lifter Galvanised x 240mm	100
2.5 SERIES		
LA02055	2.5 Series Pinhead Lifter Galvanised x 55mm	150
LA02075	2.5 Series Pinhead Lifter Galvanised x 75mm	100
LA02085	2.5 Series Pinhead Lifter Galvanised x 85mm	100
LA02120	2.5 Series Pinhead Lifter Galvanised x 120mm	100
LA02170	2.5 Series Pinhead Lifter Galvanised x 170mm	70

Pinhead Lifter



Pinhead Lifter

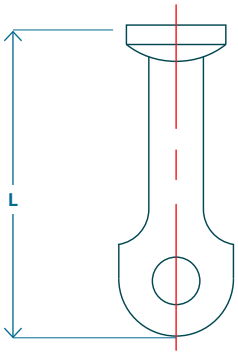
PINHEAD LIFTERS 5.0 SERIES, 10 SERIES, 20 SERIES & 32 SERIES		
CODE	**DESCRIPTION: SERIES X LENGTH (L)**	**BOX**
5.0 SERIES		
LA05095	5.0 Series Pinhead Lifter Galvanised x 95mm	50
LA05120	5.0 Series Pinhead Lifter Galvanised x 120mm	40
LA05180	5.0 Series Pinhead Lifter Galvanised x 180mm	30
LA05240	5.0 Series Pinhead Lifter Galvanised x 240mm	25
10 SERIES		
LA10150	10 Series Pinhead Lifter Galvanised x 150mm	10
LA10200	10 Series Pinhead Lifter Galvanised x 200mm	10
LA10340	10 Series Pinhead Lifter Galvanised x 340mm	5
20 SERIES		
LA20240	20 Series Pinhead Lifter Galvanised x 240mm	1
LA20340	20 Series Pinhead Lifter Galvanised x 340mm	1
LA20500	20 Series Pinhead Lifter Galvanised x 500mm	1
32 SERIES		
LA32700	32 Series Pinhead Lifter Galvanised x 700mm	1

EYE ANCHORS

Eye anchors incorporate an 'eye' (hole) at the bottom of the anchor and must be used with a reinforcement hanger bar through the eye in order to achieve load strength in concrete. The reinforcement hanger bar will provide deeper anchorage to achieve the desired loads for narrow elements such as pit walls, culverts etc.

CODE	DESCRIPTION: SERIES X LENGTH (L)	BAG
LEA01050	1.3 Series Eye Anchor Galvanised x 50mm	200
LEA01065	1.3 Series Eye Anchor Galvanised x 65mm	200
LEA02090	2.5 Series Eye Anchor Galvanised x 90mm	50
LEA05090	5.0 Series Eye Anchor Galvanised x 90mm	25
LEA05120	5.0 Series Eye Anchor Galvanised x 120mm	50
LEA10115	10 Series Eye Anchor Galvanised x 115mm	20
LEA10180	10 Series Eye Anchor Galvanised x 180mm	10
LEA20250	20 Series Eye Anchor Galvanised x 250mm	6

Foot & Eye Anchor



Eye Anchor

FOOT & EYE ANCHORS

CODE	DESCRIPTION: SERIES X LENGTH (L)	BAG
LFEA01050	1.3 Series Foot & Eye Anchor Galvanised x 50mm	250
LFEA02065	2.5 Series Foot & Eye Anchor Galvanised x 65mm	250

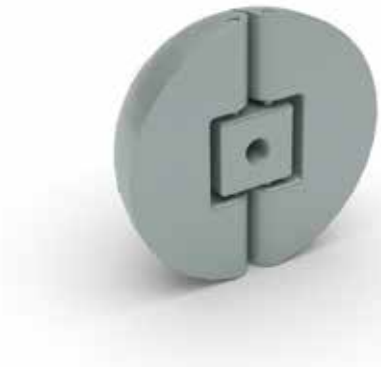
Note: The hanger bar to suit the varying capacities, must be ACRS approved and conform to AS3600 standards, with effective load capabilities determined by the diameter and length of bars. As such all works must be checked and certified by qualified personnel.
Contact PSA for Design and Engineering assistance for your Lifting requirements.

RUBBER RECESS FORMER

The rubber formers are used to position the pinhead lifter and form the clutch recess. All rubber formers are supplied with a fixing set, (bolts & wing nuts) and can be used multiple times.

CODE	DESCRIPTION	QTY
HF013	1.3 Series Rubber Recess Former	1
HF025	2.5 Series Rubber Recess Former	1
HF050	5.0 Series Rubber Recess Former	1
HF10	10 Series Rubber Recess Former	1
HF20	20 Series Rubber Recess Former	1
HF32	32 Series Rubber Recess Former	1

Rubber Recess Former



Articulated Steel Recess Former

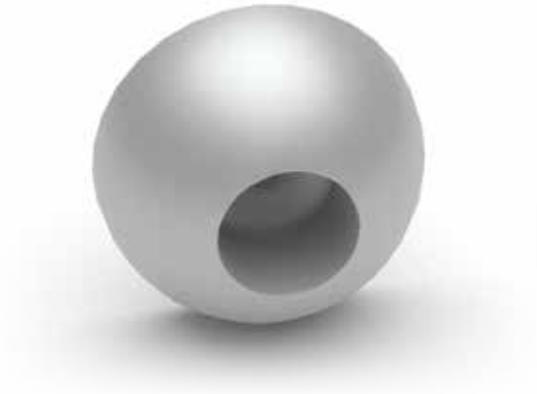
ARTICULATED STEEL FORMER

CODE	DESCRIPTION	QTY
ASF013	1.3 Series Articulated Steel Recess Former	1
ASF025	2.5 Series Articulated Steel Recess Former	1
ASF050	5.0 Series Articulated Steel Recess Former	1

STEEL RECESS FORMER

Steel recess formers are reusable, with an opening to allow easy insertion of the anchor. The rubber rings fit around the head of the pinhead lifters and then pushed into the steel recess former, to give a snug fit.

CODE	DESCRIPTION	QTY
SF013	1.3 Series Steel Recess Former	1
SF025	2.5 Series Steel Recess Former	1
SF05	5.0 Series Steel Recess Former	1
SF10	10 Series Steel Recess Former	1



Steel Recess Former

Rubber Ring

RUBBER RINGS TO SUIT ROUND STEEL FORMERS

CODE	DESCRIPTION	PACK
RR013	1.3 Series Rubber Ring to suit Steel Recess Formers	100
RR025	2.5 Series Rubber Ring to suit Steel Recess Formers	100
RR05	5.0 Series Rubber Ring to suit Steel Recess Formers	100
RR10	10 series Rubber Ring to suit Steel Recess Formers	100

PINHEAD CLUTCHES

The lifting clutch works with the corresponding size of pinhead lifting anchor and is used for a wide variety of precast concrete elements.

LIFTER CAPACITY	DESCRIPTION	PACK
LC013	1.3 Series Lifting Clutch	1
LC025	2.5 Series Lifting Clutch	1
LC05	5.0 Series Lifting Clutch	1
LC10	10 Series Lifting Clutch	1
LC20	20 Series Lifting Clutch	1
LC32	32 Series Lifting Clutch	1

Note: These lifting clutches do not accommodate ground release.

Lifting Clutch

5.0 SERIES FACE LIFTING SYSTEM

Designed for lifting concrete tilt-up wall panels via the near face, this lifter assembly (housing an internal pinhead lifter), provides for easy post-cast extraction of the split-halves of the plastic void former. Supplied assembled in sturdy galvanised steel and accommodates antennae for location detection. The quick Ground Release Clutch is used in conjunction with the Face Lifter, reducing the need for ladders. Assembly height suits corresponding panel thickness (less 2mm).

CODE	DESCRIPTION	BOX	PALLET
FL05125C	5.0 Series Face Lifter Assembly 125mm	30	810
FL05150C	5.0 Series Face Lifter Assembly 150mm	24	648
FL05175C	5.0 Series Face Lifter Assembly 175mm	24	648
FL05200C	5.0 Series Face Lifter Assembly 200mm	24	432
FLC05	5.0 Series Ground Release Lifting Clutch	Each	-

Extension feet available in 5mm increments (5mm - 25mm)

Extension Feet

5.0 Series Face Lifter Assembly

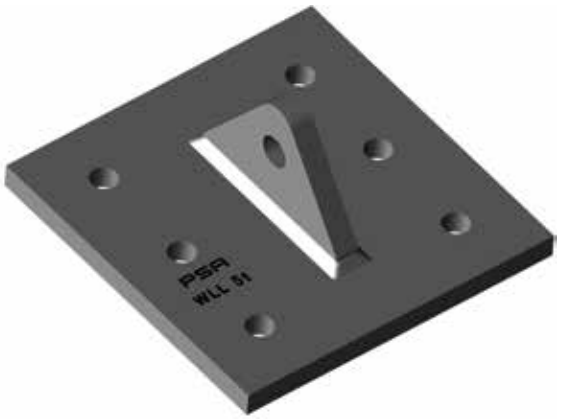
LIFTING LOOPS

A variety of heavy duty, wire strand lifting loops are available from PSA with lifting capacity up to 99 Tonnes. PSA offers Engineering Services to specify the appropriate loop to suit your design requirements or we can simply supply your specified capacity loop with the associated product certification. Contact PSA to confirm stock holding and lead-time for your order. Note: Depending on the depth of embedment and span, additional reinforcing may need to be included in the lifting design.

LIFTING PLATE

PSA post-installed lifting plate. Typically used in instances where cast-in lifting anchors were missed or misplaced at time of manufacturing. PSA Lifting Plate is designed and manufactured in Australia in compliance with AS3850.

CODE	DESCRIPTION	QTY
LP05	PSA 5.0 Series Lifting Anchor Plate	1



Lifting Plate

CONNECTIONS FOR CONCRETE

PSA's Concrete Connections include all ferrule related accessories, cast-in plates & void formers for precast and tilt-up concrete elements.

Ferrule X- Chair supports, threaded locators and push-on locator plates, antennae caps and all relevant products are tested to AS3850, AS/NZS4671 and AS3600 and ACRS approved where applicable and further certified by our experienced and qualified engineering team.

CONNECTIONS FOR CONCRETE

PSA PANEL TO PANEL CONNECTION SYSTEMS

PSA's patented Panel to Panel systems for precast elements, provide for the innovative non visual internal connections between mating panels. These provide an aesthetic finish, simplistic application and dispense with cast-in-plates, on-site welding and wet-joints where suited.

M-CONNECTION

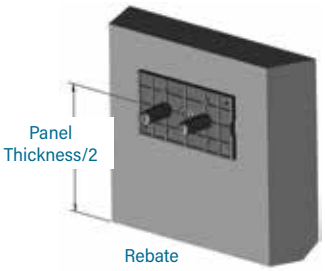
The M-Connection component utilises a pre-assembled articulating mechanism that will join two panels together by using the anchor head holes of our PSA LiftMX edge lifters. The M-Connection provides mechanical connectivity to each anchor head and the joint is then locally grouted with high strength PSA Connection Grout.

Custom Rebates to locate the PSA LME10 Anchors centrally within a panel, are available to suit 150, 175/180 & 200mm thick panels. The reusable Rebates produce a shallow void to one side of the panel, providing access for manual insertion of the M- Connection component.

The hex head bolt sub assembly contains a tension indicating washer with squirting Gel to visually validate that the correct kN load has been applied, in addition to any use of torque control wrenches. Final tightening of the bolt is to be in a controlled manner. Rattle-guns are not recommended. Only the use of equipment with precision torque settings in conjunction with observing the Gel will deem the bolt suitably fastened. Functional load specification for the bolt is 240kN.

A backing rod seal is to be applied prior to inserting the connection. Once the bolt is tightened, a temporary front cover is mounted prior to grouting. This serves as a front seal and may be removed the following day. Our PSA Connection Grout has been applied in the development of this product and must be used with the PSA Connection Systems and in accordance with PSA Technical data sheets. for the direct tension washer and PSA Connection Grout.

PART NO.	DESCRIPTION	PANEL THICKNESS (MM)	QTY
MCV150	Rebate Void	150	1
MCV175/180	Rebate Void	175/ 180	1
MCV200	Rebate Void	200	1
MCVCNR	Corner Rebate Void	175 upwards	1
M-CON	M- Connection - Assembly	Suits all	10/ Box



Tighten the bolt to a preferred 240kN and also observe the function of the tension washer and its extrusion of Gel, for visual reference to obtaining the load.

S-CONNECTION

For larger elements with a greater shear capacity requirement, the S-Connection is a perfect fit. The S-Connection also provides an easy means of superior façade finish and numerous advantages in labour savings along with greater efficiencies for the erection crew.

The S-Connection two-piece system comprises a Male part 'A' and Female part 'B' housing. The unique surface features that provide the mechanical interlock to the product design is part of the PSA proven system for grout and panel connections. The Internal function of components inside the Male housing provides for pulling of the yellow cap in the male 'A' housing, which directly pulls a braid cord sliding the Bridge (half its length) into the part 'B' receiving female housing.

The internal N24 horizontal bars that make up part of the bridging mechanism, partially traverses from part A into Part B when actuated on site. After the backing rod seal is secured, the high flow, high strength PSA Grout is filled into the male 'A' inlet. Complete filling of the connections void may be witnessed via the overflow outlet in the female 'B' side. This then provides an internal connection between mating panels, directly within the middle of the panel section.

The PSA Grout provides an integrated connection of the internal components and with it achieving a 45MPa strength in just 24hrs, progressing of panel works is swift. Our PSA Connection Grout has been applied in the development of this product and must be used with the PSA Connection Systems in accordance with the PSA Technical data sheets.

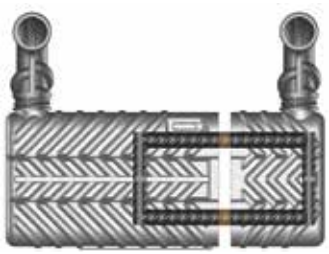
S-Connection Male part 'A' housings are supplied pre-assembled with the required elbow to suit the panel thickness.

PART NO.	DESCRIPTION	PANEL THICKNESS (MM)	QTY
S-C FEMALE 200	S- Connection 200	200	1
S-C FEMALE 250	S- Connection 250	250	1

S-Connection Female part 'B' housings are supplied with loose elbow and black cap sub-assemblies for final adjustment/ orientation of elbows in accordance with shop drawing details.

PART NO.	DESCRIPTION	PANEL THICKNESS (MM)	QTY
S-C MALE 200	S-Con Elbow	200	1
S-C MALE 250	S-Con Elbow	250	1

Other panel thicknesses available upon request



Both the M-Con & S-Con assemblies have been extensively and rigorously tested. Application to panel works at precast level and installation processes on site are in accordance with standard practices and the systems are compliant with AS3600.

Refer to PSA M-Connection and PSA S-Connection technical literature.

CAST-IN PLATES

Our quality cast-in plates for structural on site connections are tested and reviewed for conformance to AS3850 and associated industry standards for buildings. All standard plates come with M20 x 75mm ferrules.

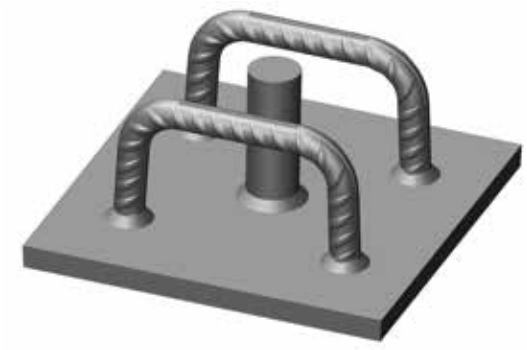
STANDARD CAST-IN PLATES		
CODE	**DESCRIPTION**	**BOX**
PCP75/1	200mm x 200mm x 12mm Black Cast-in Plate with Ferrule (85mm overall height)	200
PCP75/1G	200mm x 200mm x 12mm Galvanised Cast-in Plate with Ferrule (85mm overall height)	200
PCP75/2	200mm x 200mm x 12mm Black Cast-in Plate with Ferrule (120mm overall height)	200
PCP75/3-16	300mm x 200mm x 16mm Black Cast-in Plate with Ferrule (120mm overall height)	50
PCP75/4-16	400mm x 200mm x 16mm Black Cast-in Plate with Ferrule (120mm overall height)	50

CAST-IN PLATE CHAIRS

PSA's patented, cost effective and efficient cast-in plate chair simplifies and improves the installation process for 12mm thick cast-in plates. Cast-in plate chairs will produce a level, uniform height, whilst allowing for either flush finish or for rebates, when used in conjunction with PSA's standard 30mm and 35mm rebate void formers. The chairs eliminate the need for welding rods to the plates to achieve the desired height.

In addition testing of thermal heat load for on site welding has been approved for use with PSA cast in plate chairs.

CODE	DESCRIPTION	BUNDLE	PALLET
CP103	103mm CP Chair, 150mm panel-35mm Rebate	12	576
CP108	108mm CP Chair, 150mm panel-30mm Rebate	12	576
CP128	128mm CP Chair, 175mm panel-35mm Rebate	12	576
CP133	133mm CP Chair, 175mm panel-30mm Rebate/180mm panel- 35mm Rebate	12	576
CP138	138mm CP Chair, 150mm panel Flush/180mm panel- 30mm Rebate	12	576
CP153	153mm CP Chair, 200mm panel-35mm Rebate	12	576
CP158	158mm CP Chair, 200mm panel-30mm Rebate	12	576
CP163	163mm CP Chair, 175mm panel Flush	12	576
CP168	168mm CP Chair, 180mm panel Flush	12	576
CP188	188mm CP Chair, 200mm panel Flush	12	576
CP204	204mm CP Chair, 250mm panel - 30mm Rebate, 16mm Plate	12	576



Cast-in Plate

Cast-in Plate Chair

VOID FORMERS

200mm x 200mm HDPE cast-in plate void formers create a 30mm or 35mm rebate for cast-in plates. Custom sizes also available upon request.

CODE	DESCRIPTION - 200MM X 200MM REBATE	QTY
CPVF20030	30mm deep Cast-In Plate Void Former	10
CPVF20030C	30mm deep Cast-In Plate Void Former with 15mm Chamfer	10
CPVF20035	35mm deep Cast-In Plate Void Former	10
CPVF20035C	35mm deep Cast-In Plate Void Former with 15mm Chamfer	10

Void Former and Cast-In Plate Chair

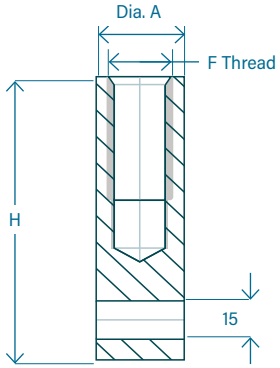
PSA FERRULES

PSA double ended, round and X-Foot Ferrules are manufactured and tested to comply with AS3850, when used in conjunction with the N12 cross bar. M12 to M20 threaded ferrules are a nominal 28.0mm OD, whilst the M24 threaded ferrule has a 32mm OD. The nominal 15mm diameter clearance hole is provided for the N12 cross bar.

X-FOOT FERRULES						
CODE Z	CODE G	DESCRIPTION				
Zinc	Galvanised	Size	Thread F	Height H mm	Outside Dia. A (mm)	Box
FP1250ZNS	FP1250GNS*	M12 x 50mm high Foot Ferrule	M12	50	20	50
FP1675ZF	FP1675GF	M16 x 75mm high X- Foot Ferrule	M16	75	28	50
FP2075ZF	FP2075GF	M20 x 75mm high X- Foot Ferrule	M20	75	28	50
FP1296ZF	FP1296GF	M12 x 96mm high X- Foot Ferrule	M12	96	28	50
FP1696ZF	FP1696GF	M16 x 96mm high X- Foot Ferrule	M16	96	28	50
FP2096ZF	FP2096GF	M20 x 96mm high X- Foot Ferrule	M20	96	28	50
FP2496ZF	FP2496GF	M24 x 96mm high X- Foot Ferrule	M24	96	32	50
FC2096ZF	-	M20 x 96mm high Coil Bolt X-Foot Ferrule	M20	96	28	50

** FP1250, FP1296, FP1696, FP2096 and FP2496 also available in 316 Grade Stainless Steel.*

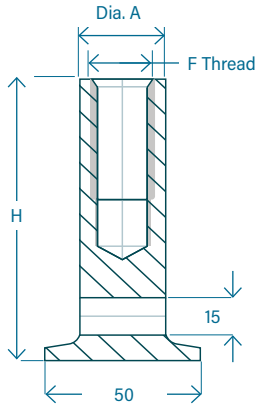
ROUND FERRULES						
CODE Z	CODE G	DESCRIPTION				
Zinc Finish	Galvanised	Size	Thread F	Height H mm	Outside Dia. A (mm)	Box
P1275ZF	P1275GF	M12 x 75mm high Round Ferrule	M12	75	28	50
P1675ZF	P1675GF	M16 x 75mm high Round Ferrule	M16	75	28	50
P2075ZF	P2075GF	M20 x 75mm high Round Ferrule	M20	75	28	50
P1296ZF	P1296GF	M12 x 96mm high Round Ferrule	M12	96	28	50
P1696ZF	P1696GF	M16 x 96mm high Round Ferrule	M16	96	28	50
P2096ZF	P2096GF	M20 x 96mm high Round Ferrule	M20	96	28	50
P2496ZF	P2496GF	M24 x 96mm high Round Ferrule	M24	96	32	50
P1260BEF	-	M12x60 Bent End Ferrule - Zinc	M12	60	17	50



Round Ferrule

Round Ferrule

X-Foot Ferrule



X-Foot Ferrule

DOUBLE ENDED ROUND FERRULES					
CODE	**DESCRIPTION**				
Zinc Finish	**Size**	**Thread F**	**Length L mm**	**Outside Dia. A mm**	**Box**
PD16140F	M16 x 140mm Double Ended Round Ferrule	M16	140	28	25
PD16170F	M16 x 170mm Double Ended Round Ferrule	M16	170	28	25
PD16190F	M16 x 190mm Double Ended Round Ferrule	M16	190	28	25
PD20120F	M20 x 120mm Double Ended Round Ferrule	M20	120	28	25
PD20140F	M20 x 140mm Double Ended Round Ferrule	M20	140	28	25
PD20170F	M20 x 170mm Double Ended Round Ferrule	M20	170	28	25
PD20190F	M20 x 190mm Double Ended Round Ferrule	M20	190	28	25

Double Ended Round Ferrule

X-FERRULE CHAIRS

The X-Ferrule Chair is an easy-to-use ferrule chair, developed to locate 'near-face' ferrules in precast and tilt-up panels. The uniquely designed X-Ferrule Chair accommodates all standard PSA X-Foot and Round 96mm high ferrules. The design has an in-built cross support and integral centre spigot to accurately position the ferrule to shop drawing locations.

CODE	DESCRIPTION- X-FERRULE CHAIR TO SUIT PANEL THICKNESS WITH 96MM LONG FERRULES	BAG	PALLET
XC125	125mm thick Panel	50	1800
XC150	150mm thick Panel	50	1800
XC175	175mm thick Panel	50	1800
XC180	180mm thick Panel	50	1800
XC200	200mm thick Panel	50	1400
XC225	225mm thick Panel	50	1400
XC250	250mm thick Panel	30	1080
XCDP	Locating DOWEL PIN to suit X- Ferrule Chairs	100	N/A

M24 X-FERRULE CHAIRS

M24 X-Ferrule Chair is an easy to use ferrule chair designed specifically for M24 (32mm OD) ferrules. The M24 X-Ferrule Chair has all the same design advantages as the standard X Ferrule chair.

CODE	DESCRIPTION - M24 X-FERRULE CHAIR TO SUIT PANEL THICKNESS WITH M24/96MM FERRULES	BAG	PALLET
24XC125	125mm thick Panel	50	1800
24XC150	150mm thick Panel	50	1800
24XC175	175mm thick Panel	50	1800
24XC180	180mm thick Panel	50	1800
24XC200	200mm thick Panel	50	1400
24XC250	250mm thick Panel	30	1080

SWAGED FERRULE ANCHOR BARS

PSA Swaged Ferrule Anchor Bars provide a full bar strength connection for precast concrete panels to floors. The standard metric thread is easy to install, as it is simply tied to the central reinforcement, with no welding required. The swaging provides a permanent full strength fitting connection that is ready to use.

CODE	DESCRIPTION	BUNDLE
SB12N8	M12 x N8 Swaged Ferrule Anchor Bar	50
SB16N12	M16 x N12 Swaged Ferrule Anchor Bar	25
SB20N16	M20 x N16 Swaged Ferrule Anchor Bar	15

METRIC THREADED STARTER BARS

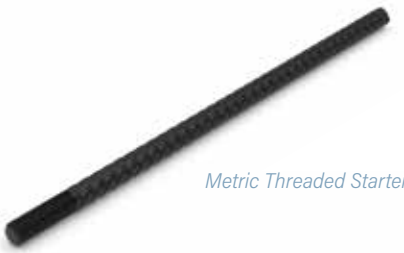
PSA stock a range of metric starter bars used for panel to slab connections in precast and tilt panel construction. PSA can arrange for custom starter bar lengths to suit your special applications, along with fittings to suit.

Note: Engineering approval should be obtained, before using this metric thread in structural connections.

CODE	DESCRIPTION	BUNDLE
TR12600	N12 x 600mm Reo Threaded One End	1
TR16600	N16 x 600mm Reo Threaded One End	1
TR20600	N20 x 600mm Reo Threaded One End	1
TR20150	N20 x 150mm Reo Threaded One End	1

** Other sizes available upon request*

X-Ferrule Chair



Metric Threaded Starter Bar

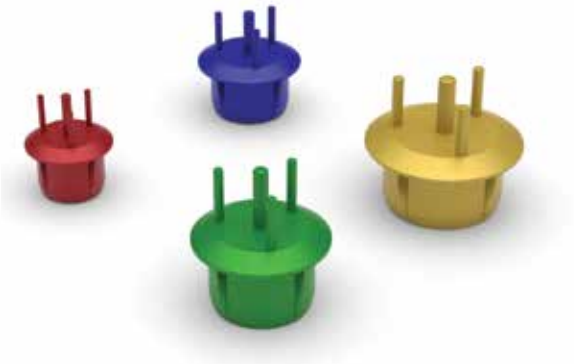
Swaged Ferrule Anchor Bar

TIE WIRE

PSA stocks a wide range of wire products for the construction industry. Available in both a galvanised and annealed finish. Accessories for twisting , cutting and feeding are also available.

CODE	DESCRIPTION	PACK	PALLET
BPTW	1.57mm x 1.42KG Tie Wire Belt Packs	10	640
TWLB	Tie Wire Reel Leather Belt	1	N/A
TWRIDEAL	Tie Wire Ideal Reel	1	N/A
KNIPPEX200	200mm Knippex Cutters	1	N/A
KNIPPEX280	280mm Knippex Cutters	1	N/A

Tie Wire Belt Pack



Antennae Caps

ANTENNAE CAPS

Designed for 'near face' panels and used in conjunction with the X Ferrule Chair assembly, where the push-on fit with integral seal avoids slurry entering the thread form of the ferrule. The brightly colour-coded antennae caps are made from durable, yet soft ethylene polymer, which allows for easy screeding and cap identification. To avoid potential displacement when screeding, PSA has developed Screw-In Caps for M16 and M20 ferrules. These caps have a slot in the antennae face for easy removal.

CODE	DESCRIPTION	BAG	BOX
SC12	M12 Antennae Caps - Red	100	2000
SC16	M16 Antennae Caps - Green	100	2000
SC20	M20 Antennae Caps - Blue	100	2000
SC24	M24 Antennae Caps - Yellow	100	2000
NSSC16	M16 Screw-in Antennae Caps - Green	100	2000
NSSC20	M20 Screw-in Antennae Caps - Blue	100	2000

PUSH-ON FERRULE LOCATORS

The Locators push into the ferrule and release when the panel is lifted, leaving a 5mm recess. The built-in seal prevents slurry leakage into the ferrule. The 58mm diameter base may be mechanically fastened via the reference holes or glued by using double-sided, adhesive foam discs. Note: The Push-On Ferrule Locators are also available, pre-assembled with double-sided, adhesive foam discs.

CODE	DESCRIPTION	BAG	BOX
FLP12/58	M12 Ferrule Locator Plate, 58mm base - Red	200	1200
FLP16/58	M16 Ferrule Locator Plate, 58mm base - Green	200	1200
FLP20/58	M20 Ferrule Locator Plate, 58mm base - Blue	200	1200
FLP24/58	M24 Ferrule Locator Plate, 58mm base - Yellow	200	1200
FLP12A	M12 Ferrule Locator Plate, pre-assembled with double sided tape	N/A	1000
FLP16A	M16 Ferrule Locator Plate, pre-assembled with double sided tape	N/A	1000
FLP20A	M20 Ferrule Locator Plate, pre-assembled with double sided tape	N/A	1000
FLP24A	M24 Ferrule Locator Plate, pre-assembled with double sided tape	N/A	1000

Push-on Ferrule Locators

Assembled Ferrule Locator Plate

Threaded Locator Plates

THREADED LOCATOR PLATES

PSA Threaded Locator Plates eliminates stocking extra components, as the innovative design incorporates mechanical nail/screw fastening or glue-on fastening. The Threaded Locator Plates have sufficient elasticity for mechanical fastening, yet provide for a rigid flat surface, to adhere the double sided tape disc. Note: The base is recessed to allow for mechanical fastening and removal from the ferrule.

CODE	DESCRIPTION	BAG	BOX
TLP12	M12 Threaded Locator Plate - Red	100	1200
TLP16	M16 Threaded Locator Plate - Green	100	1200
TLP20	M20 Threaded Locator Plate - Blue	100	1200
TLP24	M24 Threaded Locator Plate - Yellow	100	1200

NAILING PLATES

Nailing Plates screw into the ferrule and are mechanically fastened to the formwork, leaving a 10mm recess in the panel. Where coil ferrules are used a special nailing plate is available. Note: The base is recessed to allow for mechanical fastening and removal from the ferrule.

CODE	DESCRIPTION	BAG	BOX
NP12	12mm Nailing Plates - Red	100	1000
NP16	16mm Nailing Plates - Green	100	1000
NP20	20mm Nailing Plates - Blue	100	1000
NP24	24mm Nailing Plates - Yellow	100	1000
NP20C	20mm Nailing Plates, coil bolt - Brown	100	1000

Nailing Plates

COVER CAPS

30MM COVER CAPS (LARGE & SMALL)

Provides an effective solid 30mm extension and cover to rods that are used as feet. Two sizes are available covering rod 4-6mm diameter (small) and rod diameters 8-12mm (large). Discrete concrete grey in colour with dimples to provide minimal exposure.

10MM DIAMETER COVER CAP X 30MM LONG

Provides a slim sleeve that fts neatly over 10mm diameter black rod. Centre dimple provides for minimal surface exposure. When this cap is fitted, the effective rod length may be reduced by up to 5mm.

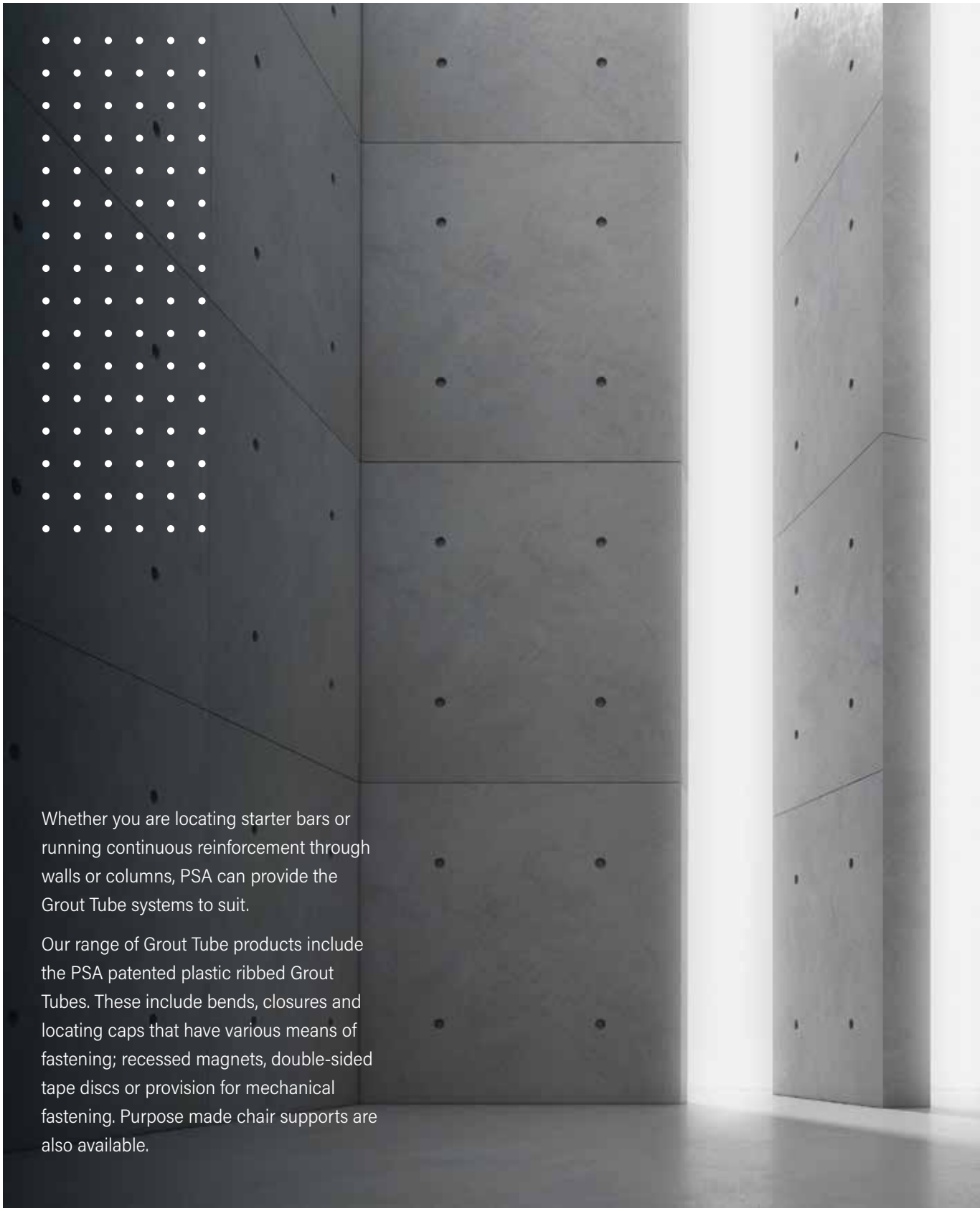
CODE	DESCRIPTION	BAG
30CCS	30mm Cover Cap - Small to suit rod sizes 4 - 6mm	500
30CCL	30mm Cover Cap - Large to suit rod sizes 8 - 12mm	500
10CAPGREY	Grey Cover Cap/ Sleeve x 30mm long - to suit 10mm diameter steel rod	500

30mm Cover Cap *10mm Diameter Cover Cap*

Large Cover Cap

GROUT TUBES

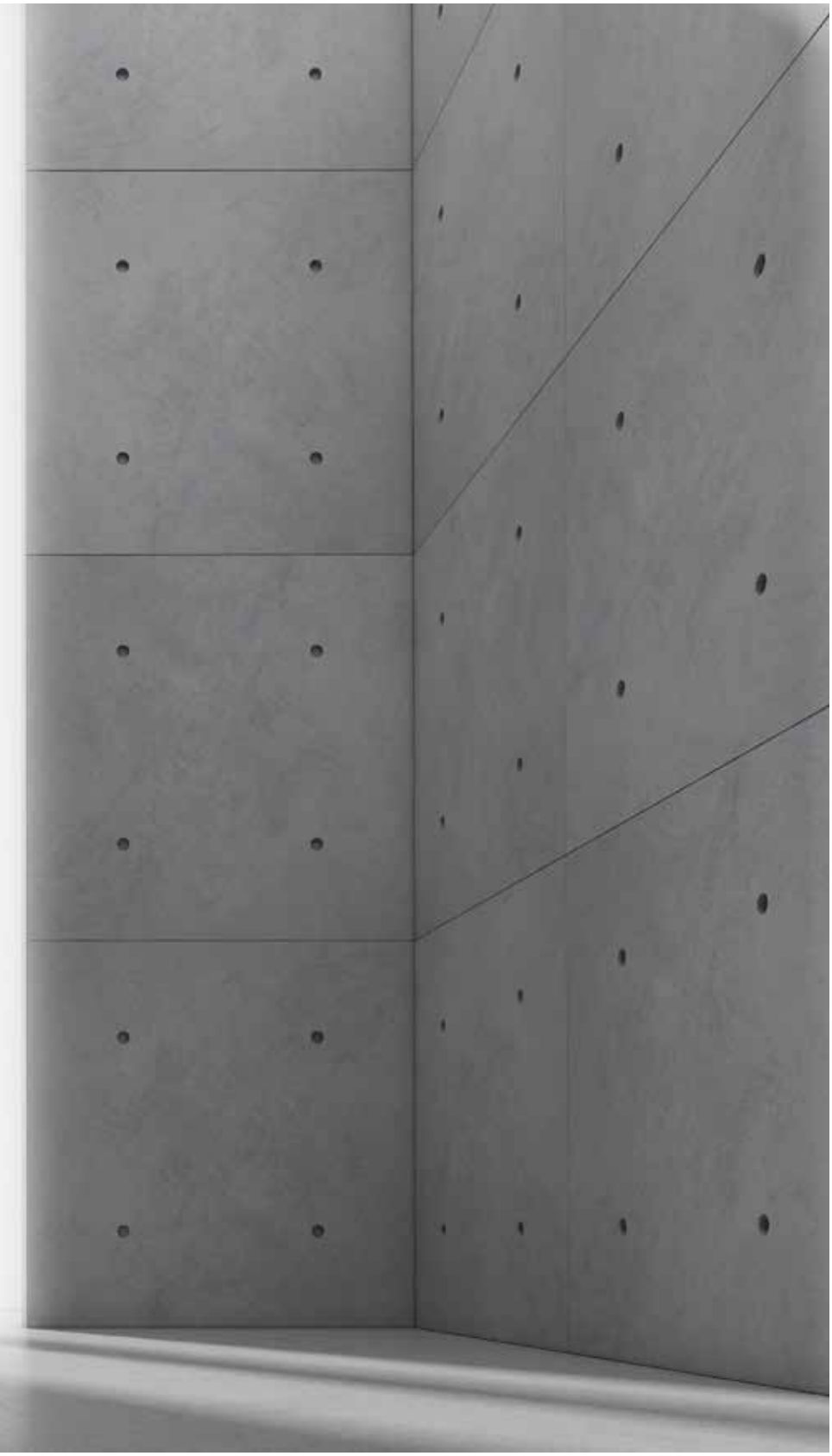
GROUT TUBES



Whether you are locating starter bars or running continuous reinforcement through walls or columns, PSA can provide the Grout Tube systems to suit.

Our range of Grout Tube products include the PSA patented plastic ribbed Grout Tubes. These include bends, closures and locating caps that have various means of fastening; recessed magnets, double-sided tape discs or provision for mechanical fastening. Purpose made chair supports are also available.

+ GROUT TUBES

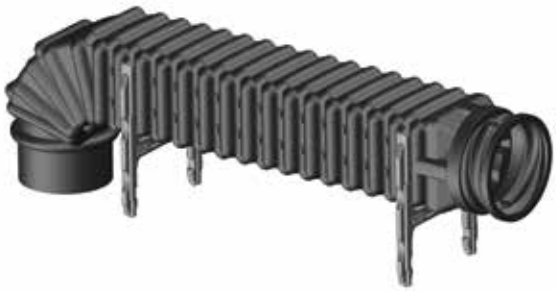


50 SERIES SQUARE GROUT TUBE SYSTEM

The moulded Grout Tube replaces three labour intensive construction items when using metal Spiral Duct, the elbow, the cut UPVC or spiral tube and tape. The Grout Tube brings the added value of safety, eliminating exposure to toxic fumes and dust generated from cutting UPVC tube, as well as the jagged edges created when cutting metal spiral tube. It won`t rust and eliminates wastage cutting from stock lengths.

50 SERIES BENDS			
CODE	**DESCRIPTION**	**BOX**	**PALLET**
SGT50200150	200mm Square Grout Tube to suit 150mm Panel	100	1600
SGT50200175	200mm Square Grout Tube to suit 175mm Panel	100	1200
SGT50200180	200mm Square Grout Tube to suit 180mm Panel	100	1200
SGT50200200	200mm Square Grout Tube to suit 200mm Panel	100	1200
SGT50200250	200mm Square Grout Tube to suit 250mm Panel	100	1200
SGT50300150	300mm Square Grout Tube to suit 150mm Panel	75	900
SGT50300175	300mm Square Grout Tube to suit 175mm Panel	75	900
SGT50300180	300mm Square Grout Tube to suit 180mm Panel	75	900
SGT50300200	300mm Square Grout Tube to suit 200mm Panel	75	900
SGT50300250	300mm Square Grout Tube to suit 250mm Panel	75	900
SGT50300300	300mm Square Grout Tube to suit 300mm Panel	75	900

Other sizes available on request.



50 Series Grout Tube Square Elbow

50 SERIES EXTENSIONS			
CODE	**DESCRIPTION**	**BOX**	**PALLET**
SXT50100	100mm Square Grout Tube Extension	100	3200
SXT50200	200mm Square Grout Tube Extension	130	2080
SXT50300	300mm Square Grout Tube Extension	100	1600
SXT50400	400mm Square Grout Tube Extension	80	1280
SXT50500	500mm Square Grout Tube Extension	80	1280
SXT50600	600mm Square Grout Tube Extension	55	880
SXT50700	700mm Square Grout Tube Extension	85	340

Note: All extensions available with a closed end upon request: eliminating the need for duct tape and end caps.

50 Series extensions

50 SERIES GROUT TUBE ACCESSORIES			
CODE	**DESCRIPTION**	**BAG**	**BOX**
GTEC50MAG	Grout Tube End Cap 50mm with Magnet Recess	100	600
GTEC50ANT	Grout Tube End Cap 50mm with antennae	100	500
GTEC50	Grout Tube End Cap 50mm without antennae	100	500
GTMAG	Grout Tube End Cap Magnet	10	N/A

Grout Tube Magnet

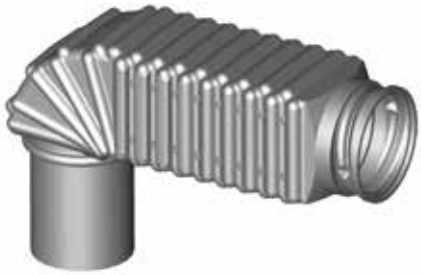
Grout Tube End Cap with Magnet Recess

Grout Tube End Cap

Grout Tube End Cap with Antennae

50 SERIES GROUT TUBE CHAIR		
CODE	**DESCRIPTION**	**PACK**
SGTC50150	50 Series Square Grout Tube Chair to suit 150mm Panel	100
SGTC50175	50 Series Square Grout Tube Chair to suit 175mm Panel	100
SGTC50180	50 Series Square Grout Tube Chair to suit 180mm Panel	100
SGTC50200	50 Series Square Grout Tube Chair to suit 200mm Panel	100
SGTC50250	50 Series Square Grout Tube Chair to suit 250mm Panel	100

50 Series Square Grout Tube Chair



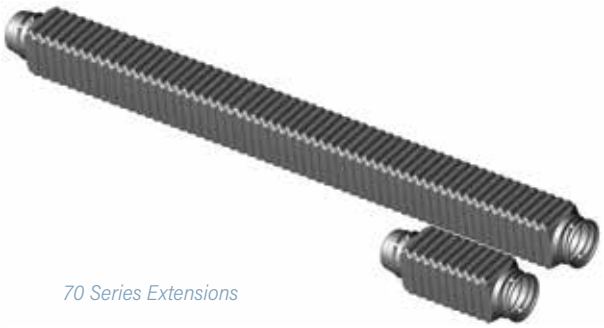
70 Series Grout Tube Elbow

70 SERIES SQUARE GROUT TUBE SYSTEM

70 SERIES BENDS			
CODE	**DESCRIPTION**	**BOX**	**PALLET**
SGT70100150	100mm Square Grout Tube to suit 150mm Panel	75	900
SGT70100175	100mm Square Grout Tube to suit 175mm Panel	75	900
SGT70100180	100mm Square Grout Tube to suit 180mm Panel	75	900
SGT70100200	100mm Square Grout Tube to suit 200mm Panel	75	900
SGT70100225	100mm Square Grout Tube to suit 225mm Panel	75	900
SGT70100250	100mm Square Grout Tube to suit 250mm Panel	75	900
SGT70100300	100mm Square Grout Tube to suit 300mm Panel	75	900
SGT70200150	200mm Square Grout Tube to suit 150mm Panel	60	720
SGT70200175	200mm Square Grout Tube to suit 175mm Panel	60	720
SGT70200180	200mm Square Grout Tube to suit 180mm Panel	60	720
SGT70200200	200mm Square Grout Tube to suit 200mm Panel	60	720
SGT70200250	200mm Square Grout Tube to suit 250mm Panel	60	720
SGT70200300	200mm Square Grout Tube to suit 300mm Panel	60	720

70 SERIES EXTENSIONS			
CODE	**DESCRIPTION**	**BOX**	**PALLET**
SXT70200	200mm Square Grout Tube Extension	100	1200
SXT70400	400mm Square Grout Tube Extension	56	896
SXT70500	500mm Square Grout Tube Extension	56	672
SXT70600	600mm Square Grout Tube Extension	63	756
SXT70700	700mm Square Grout Tube Extension	60	240
SXT70800	800mm Square Grout Tube Extension	60	240
SXT70900	900mm Square Grout Tube Extension	60	240
SXT701000	1000mm Square Grout Tube Extension	60	240

All extensions available with a closed end upon request: eliminating the need for duct tape and end caps.



70 Series Extensions

70 SERIES GROUT TUBE ACCESSORIES			
CODE	**DESCRIPTION**	**BAG**	**BOX**
GTEC70MAG	Grout Tube End Cap 70mm with Magnet Recess	100	500
GTEC70ANT	Grout Tube End Cap 70mm with antennae	100	300
GTEC70	Grout Tube End Cap 70mm without antennae	100	300
GTMAG	Grout Tube End Cap Magnet	10	N/A

Grout Tube Magnet

Grout Tube End Cap with Magnet Recess

Grout Tube End Cap

Grout Tube End Cap with Antennae

70 SERIES GROUT TUBE CHAIR		
CODE	**DESCRIPTION**	**PACK**
SGTC70150	70 Series Square Grout Tube Chair to suit 150mm Panel	100
SGTC70175	70 Series Square Grout Tube Chair to suit 175mm Panel	100
SGTC70180	70 Series Square Grout Tube Chair to suit 180mm Panel	100
SGTC70200	70 Series Square Grout Tube Chair to suit 200mm Panel	100
SGTC70250	70 Series Square Grout Tube Chair to suit 250mm Panel	100

70 Series Square Grout Tube Chair

Spiral Duct

SPIRAL DUCT

Spiral Duct is used in the concrete construction industry primarily for creating grout tube voids. PSA can supply Spiral Duct from 40mm diameter upwards. Other diameters and lengths are available upon request.

CODE	DESCRIPTION	PACK	LENGTH
40SP	40mm nominal ID Spiral Duct	100 lengths	2.5m
50SP	50mm nominal ID Spiral Duct	100 lengths	2.5m or 5.8m
60SP	60mm nominal ID Spiral Duct	100 lengths	2.5m or 5.8m
70SP	70mm nominal ID Spiral Duct	100 lengths	2.5m or 5.8m
80SP	80mm nominal ID Spiral Duct	100 lengths	2.5m, 3.2m or 5.8m
90SP	90mm nominal ID Spiral Duct	100 lengths	5.4m
GTBC	Grout Tube Bar Chair	200	N/A

Note: All spiral duct priced per metre

SPIRAL DUCT COUPLINGS		
Spiral duct couplings enable spiral ducts to be joined together.		
CODE	**DESCRIPTION**	**BOX**
53SPCOUP	53mm Spiral Duct Couplings to suit 50mm Spiral Duct	100
63SPCOUP	63mm Spiral Duct Couplings to suit 60mm Spiral Duct	90
73SPCOUP	73mm Spiral Duct Couplings to suit 70mm Spiral Duct	80

SLAB VOIDS

Slab voids are a push fit connection for slab to panel connections. The plastic slab voids are pushed into the metal spiral duct. Heights can be extended using the 70 series PSA Grout Tube Extensions.

CODE	DESCRIPTION	BOX	PALLET
50SV200	200mm Slab Void to Suit 50mm Spiral Duct	112	1344
70SV200	200mm Slab Void to Suit 70mm Spiral Duct	112	1344

Slab Void

Pipe Locators

PIPE LOCATORS

PSA manufactures and stocks pipe locators to suit 40, 50, 60, 70 and 90mm diameter Spiral Duct. PSA can produce any odd size you may require, subject to minimum order requirements.

CODE	DESCRIPTION	BAG
40PL	Internal Pipe Locator- tapered to fit inside 40mm Tube - Purple	100
50PL	Internal Pipe Locator- tapered to fit inside 50mm Tube- Red	100
60PL	Internal Pipe Locator- tapered to fit inside 60mm Tube- Green	100
70PL	Internal Pipe Locator- tapered to fit inside 70mm Tube- Yellow	100
90PL	Internal Pipe Locator- tapered to fit inside 90mm Tube - Blue	100

UPVC BENDS

UPVC Pipes and Bends are commonly used as returns in conjunction with metal spiral duct for making grout tubes. We stock 88º UPVC Bends in 50mm, 65mm and 75mm, and have access to a whole range of UPVC Fittings and Pipes to suit your request.

CODE	DESCRIPTION	BOX	PALLET
5088PVC BFF	50mm 88° UPVC Bends - suits 50SP	80	2880
6588PVC BFF	65mm 88° UPVC Bends - suits 60SP	40	1440
7588PVC BFF	75mm 88° UPVC Bends - suits 70SP	60	2160

UPVC Bends

Spiral Grout Tube Bend

Corrugated Flexible Polydrain - Unslotted

SPIRAL GROUT TUBE BENDS

50 & 70 Spiral Grout Tube Bends are specifically designed to screw into the respective spiral duct profile. 90mm Spiral Grout Tube Bends are push fit. Spiral duct Tube Bends are pre-cut to suit popular panel thicknesses.

CODE	DESCRIPTION	BOX	PALLET
50SGB150	50mm Spiral Thread Grout Tube Bend - 150mm panel	100	1200
50SGB200	50mm Spiral Thread Grout Tube Bend - 200mm panel	100	1200
50SGB250	50mm Spiral Thread Grout Tube Bend - 250mm panel	100	1200
50SGBUNCUT	50mm Spiral Thread Grout Tube Bend - Uncut	100	1200
70SGB200	70mm Spiral Thread Grout Tube Bend - 200mm panel	75	900
70SGB250	70mm Spiral Thread Grout Tube Bend - 250mm panel	75	900
70SGB300	70mm Spiral Thread Grout Tube Bend - 300mm panel	75	900
70SGBUNCUT	70mm Spiral Thread Grout Tube Bend - Uncut	75	900
90SGB200	90mm Push Fit Spiral Grout Tube Bend - 200mm panel	65	780
90SGB250	90mm Push Fit Spiral Grout Tube Bend - 250mm panel	65	780
90SGB300	90mm Push Fit Spiral Grout Tube Bend - 300mm panel	65	780
90SGBUNCUT	90mm Push Fit Spiral Grout Tube Bend - Uncut	65	780

Other panel sizes of Spiral Grout Tube Bends available subject to minimum order requirements.

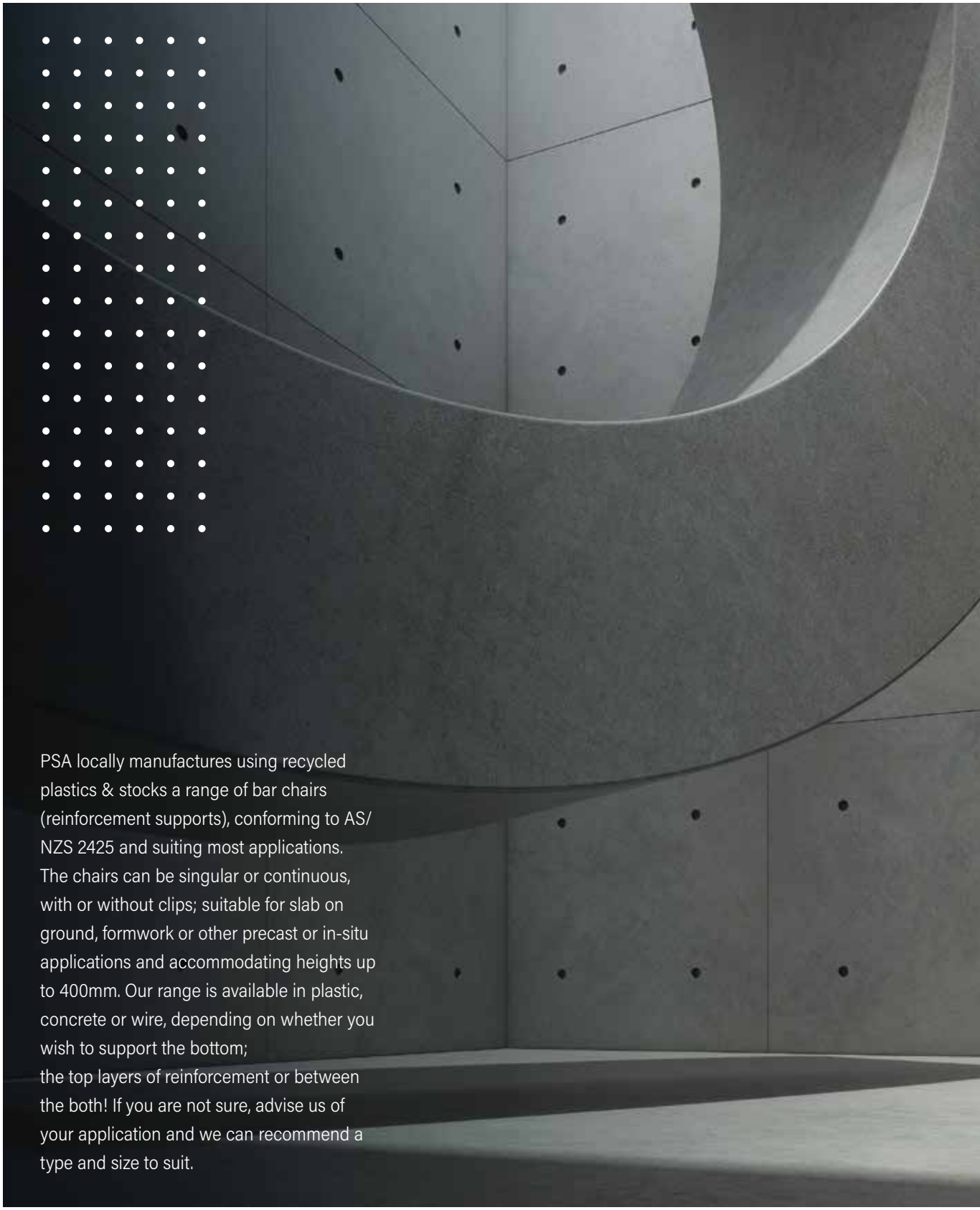
FLEXIBLE GROUT TUBE

Unslotted polydrain and low density poly pipe are used for flexible grout tubes and post tensioning sheaths. Stocked in 50mm and 19mm diameters respectively. Other sizes available upon request.

CODE	DESCRIPTION	ROLL
50PD20US	50mm Corrugated Flexible Polydrain - unslotted	20m
19LDP200	19mm Low Density Poly Pipe	200m

BAR + MESH
SUPPORT CHAIRS

BAR + MESH
SUPPORT CHAIRS



PSA locally manufactures using recycled plastics & stocks a range of bar chairs (reinforcement supports), conforming to AS/NZS 2425 and suiting most applications. The chairs can be singular or continuous, with or without clips; suitable for slab on ground, formwork or other precast or in-situ applications and accommodating heights up to 400mm. Our range is available in plastic, concrete or wire, depending on whether you wish to support the bottom; the top layers of reinforcement or between the both! If you are not sure, advise us of your application and we can recommend a type and size to suit.

BAR + MESH SUPPORT CHAIRS

CONTINUOUS DECK RAILS

The plastic Deck Rail is a continuous spacer for formwork applications, designed with pairs of vertical legs at approximately 75mm centres and an additional leg central. The 1100mm length is designed to be snapped in half to create two 550mm long sections, or moulded into other lengths as noted below. The Deck Rail is one of the most versatile spacers that is strong and stable while providing minimum exposure. The male to female clip-in connection at opposing ends allows for joining of continuous lengths, or can be used individually. Deck Rails eliminate the need to clip bar chairs onto the reinforcement as well as 'chairing-up' after reinforcement has been laid. Ideal for suspended decks, columns, precast or tilt-up panels, exposed in-situ elements, precast beams and slabs on blinding concrete. Available in heights from 20mm to 75mm in 5mm increments. Note: Where there are concentrated loads the 1100mm long Deck Rail can be joined end on end (male to female) to form a circle of approximately 350mm diameter.

CODE	DESCRIPTION	PACK	PALLET
CDR020	20mm x 1100mm Interconnecting Continuous Deck Rail	20	1600
CDR025	25mm x 1100mm Interconnecting Continuous Deck Rail	20	1600
CDR030	30mm x 1100mm Interconnecting Continuous Deck Rail	20	1400
CDR035	35mm x 1100mm Interconnecting Continuous Deck Rail	20	1200
CDR040	40mm x 1100mm Interconnecting Continuous Deck Rail	20	1100
CDR045	45mm x 1100mm Interconnecting Continuous Deck Rail	20	1000
CDR050	50mm x 1100mm Interconnecting Continuous Deck Rail	20	900
CDR055	55mm x 1100mm Interconnecting Continuous Deck Rail	20	900
CDR060	60mm x 1100mm Interconnecting Continuous Deck Rail	20	800
CDR065	65mm x 1100mm Interconnecting Continuous Deck Rail	20	700
CDR070	70mm x 1100mm Interconnecting Continuous Deck Rail	20	600
CDR075	75mm x 1100mm Interconnecting Continuous Deck Rail	20	600

Product held in-stock is moulded in a light grey colour, however we can mould in white, black and other colours, subject to minimum order requirements. All sizes can be moulded in lengths of 350, 500, 800, subject to minimum order requirements.

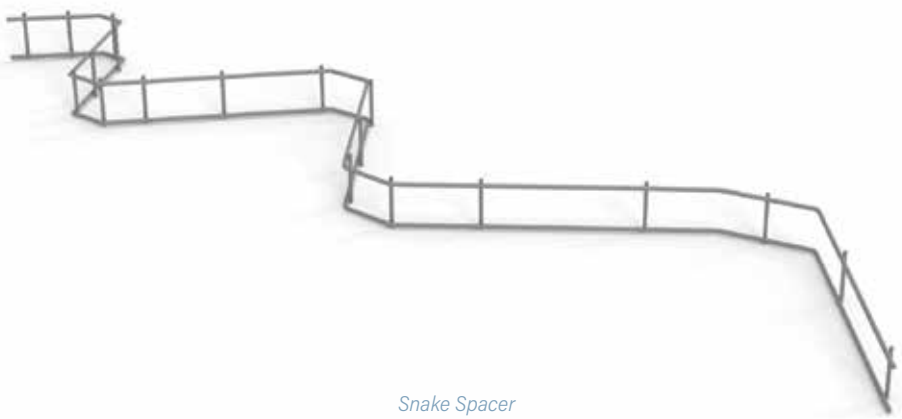
Continuous Deck Rail

SNAKE SPACERS

PSA Snake Spacers provide a quick, easy and economical method of support between two layers of reinforcement in concrete slabs and panels. Supplied in an effective length of 2.0 metres and range in sizes from 40mm up to 180mm, the Snake Spacer is perfect for any panel applications that call for double layers of reinforcement. By sitting on top of the bottom layer of reinforcement, it eliminates exposure issues that wire chairs can create. It's also perfect for slab and deck applications where double reinforcement is required and where the reinforcement mesh or bar aperture is less than 200mm, making it difficult to step through the bottom layer.

CODE	DESCRIPTION	BUNDLE	PALLET
SSA40	40mm Double Mesh Snake Wire	25	500
SSA50	50mm Double Mesh Snake Wire	25	500
SSA60	60mm Double Mesh Snake Wire	25	500
SSA70	70mm Double Mesh Snake Wire	25	500
SSA80	80mm Double Mesh Snake Wire	25	500
SSA90	90mm Double Mesh Snake Wire	25	500
SSA100	100mm Double Mesh Snake Wire	25	500
SSA110	110mm Double Mesh Snake Wire	25	500
SSA120	120mm Double Mesh Snake Wire	25	500
SSA130	130mm Double Mesh Snake Wire	25	500
SSA140	140mm Double Mesh Snake Wire	25	500
SSA150	150mm Double Mesh Snake Wire	25	500
SSA160	160mm Double Mesh Snake Wire	25	500
SSA170	170mm Double Mesh Snake Wire	25	500
SSA180	180mm Double Mesh Snake Wire	25	500

SSA160 - SSA180 non stocked and subject to lead time and minimum order requirements.



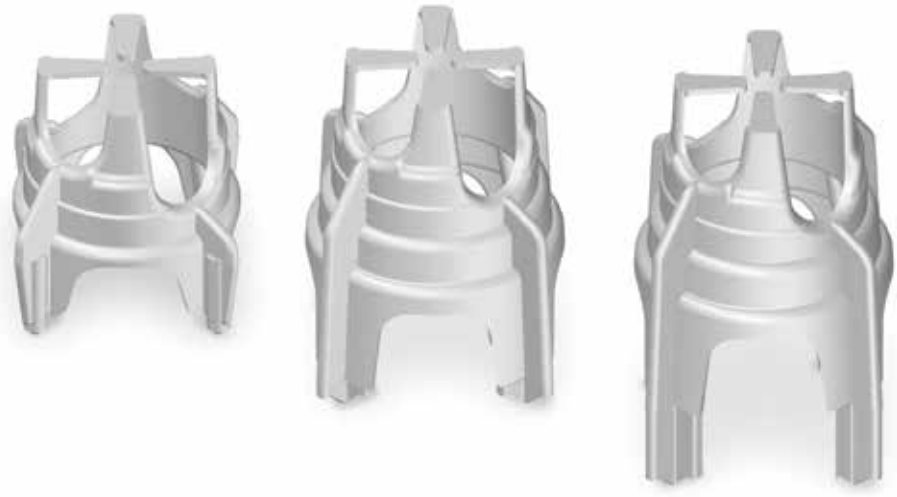
Snake Spacer

PANEL CHAIRS

Panel Chairs support single layered mesh in tilt up, precast panels and some suspended deck applications. The chairs provide for heights ranging from 30mm to 100mm to suit popular panel thicknesses, with four strong legs for stability. The chairs can support the mesh whilst walking over it without collapsing or tipping. The tip of the legs provide for minimum exposure and the chair is coloured a consistent grey, to match the concrete. 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.

CODE	DESCRIPTION	BAG	PALLET
PC30/40	Combination Panel Chairs with clips - 30mm & 40mm	100	5000
PC50/60	Combination Panel Chairs with clips - 50mm & 60mm	100	5000
PC65/75	Combination Panel Chairs with clips - 65mm & 75mm	100	5000
PC90/100	Combination Panel Chairs with clips - 90mm & 100mm	100	5000

Product held in-stock is moulded in a light grey colour, however we can mould in white, black and other colours, subject to minimum order requirements



Panel Chairs

TOP DECK CHAIRS

The Top Deck Chair supports both top mesh or reinforcing bars in suspended decks, thick precast and tilt-up panels, as well as most tall spacer applications where strength and stability are crucial. Load tested to over 120 kg, they will not spread under normal construction loads. They are grey in colour leaving a minimal foot print. Unlike wire alternatives, the top deck chairs offer dual heights and will not rust. They can still be installed in both cold and warm conditions. An added feature is a cross bar between the dual supports, to allow wire tying of reo to the chair- if required; and identifying the manufacturer and size. The saddle will accommodate all mesh sizes and bars up to N28.

CODE	DESCRIPTION	BAG	PALLET
TD90/100	Dual Height Top Deck Chairs 90mm and 100mm	50	4200
TD110/120	Dual Height Top Deck Chairs 110mm and 120mm	50	4200
TD130/140	Dual Height Top Deck Chairs 130mm and 140mm	50	3600
TD150/160	Dual Height Top Deck Chairs 150mm and 160mm	50	3000
TD170/180	Dual Height Top Deck Chairs 170mm and 180mm	50	3000
TD190/200	Dual Height Top Deck Chairs 190mm and 200mm	50	3000

Top Deck Chair

CLIP FAST BAR CHAIRS

Clip Fast Bar Chairs are made from quality materials and accommodate a range of bar sizes from 4mm to 16mm. This convenient, economical range is designed for minimal exposure and coloured grey to match the concrete. The small stance assists installation where congestion is an issue.

CODE	DESCRIPTION	BAG	PALLET
CLFB20	Clip Fast Bar Chair - 20mm height	100	5000
CLFB25	Clip Fast Bar Chair - 25mm height	100	5000
CLFB30	Clip Fast Bar Chair - 30mm height	100	5000
CLFB35	Clip Fast Bar Chair - 35mm height	100	5000
CLFB40	Clip Fast Bar Chair - 40mm height	100	5000
CLFB50	Clip Fast Bar Chair - 50mm height	100	5000
CLFB60	Clip Fast Bar Chair - 60mm height	100	5000
CLFB65	Clip Fast Bar Chair - 65mm height	100	5000
CLFB75	Clip Fast Bar Chair - 75mm height	100	5000

Note: Additional 5mm increments within the range are available, subject to minimum order quantity.

Clip Fast Bar Chairs

Clip Fast Mesh Chair

CLIP FAST MESH CHAIRS

Clip Fast Mesh Chairs are supplied in a concrete-grey finish. The chair is designed to clip easily to the intersection of the mesh, providing greater strength and stability. Can be used in vertical and horizontal applications.

CODE	DESCRIPTION	BAG	PALLET
CLFM25	Clip Fast Mesh Chair - 25mm height	100	5000
CLFM30	Clip Fast Mesh Chair - 30mm height	100	5000
CLFM40	Clip Fast Mesh Chair - 40mm height	100	5000
CLFM50	Clip Fast Mesh Chair - 50mm height	100	5000
CLFM65	Clip Fast Mesh Chair - 65mm height	100	5000
CLFM75	Clip Fast Mesh Chair - 75mm Height	100	5000
CLFM90	Clip Fast Mesh Chair - 90mm height	100	5000

ROCKET MESH CHAIRS

Rocket Mesh Chairs clip firmly to the mesh in either horizontal or vertical applications to provide accurate cover. Ideal for use in pipes, tanks and a variety of concrete elements. The rocket chairs narrow base reduces exposure and can accommodate light mesh up to 5mm diameter.

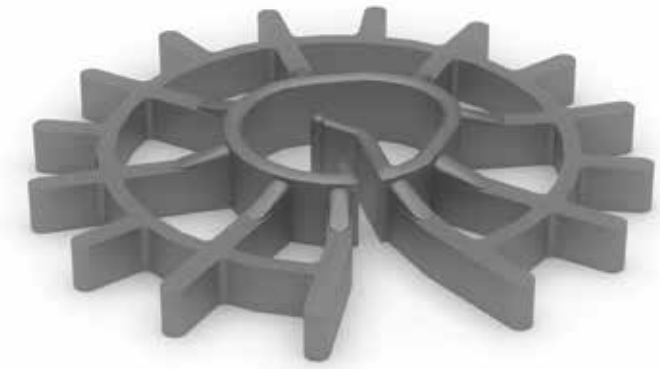
CODE	DESCRIPTION	BAG	PALLET
RKT15	Rocket Mesh Chairs - 15mm Cover - Red	1000	40000
RKT20	Rocket Mesh Chairs - 20mm Cover - Green	1000	40000
RKT25	Rocket Mesh Chairs - 25mm Cover - Brown	1000	40000
RKT30	Rocket Mesh Chairs - 30mm Cover - Yellow	1000	40000
RKT35	Rocket Mesh Chairs - 35mm Cover - Blue	1000	40000

Rocket Mesh Chairs

CIRCULAR SPACERS

Circular Spacers are designed and manufactured from quality plastics, for strength and stability. The unique design offers accurate cover for 360°. They reduce twist when in position, due to the wider inner clip, which adjusts and holds firmly to the bar. Cover remains the same, whilst providing for varying bar diameters. The concrete grey coloured spacer accommodates vertical or horizontal fitments and can rotate when in contact with formwork.

CODE	DESCRIPTION	BAG	PALLET
CS12C15	Circular Spacers with 15mm Cover (8-12mm bar)	100	5000
CS12C20	Circular Spacers with 20mm Cover (8-12mm bar)	100	5000
CS12C25	Circular Spacers with 25mm Cover (8-12mm bar)	100	5000
CS12C30	Circular Spacers with 30mm Cover (8-12mm bar)	100	5000
CS12C40	Circular Spacers with 40mm Cover (8-12mm bar)	100	5000
CS12C50	Circular Spacers with 50mm Cover (8-12mm bar)	100	5000



Circular Spacer

SCREEDMASTER CHAIR

The ScreedMaster Chair is a fully adjustable, multipurpose chair, for levelling decks and accurate depression forms. Comprises a base, threaded height adjuster, and saddle. Adjustable height range of 125mm to 245mm. The ScreedMaster Chair is designed to hold screed rails on metal, timber and concrete decks. The chair is light weight yet sturdy and may be fastened down using staples, nails or screws. The chair is sacrificial within the concrete.

CODE	DESCRIPTION	BOX	PALLET
SMC	ScreedMaster Chair	50	800

Screed Master Chair

SLAB ON GROUND COMBINATION BAR CHAIRS

A full range of the Slab on Ground Chairs, manufactured from selected plastics for superior performance, are tested to exceed loads of 120kg. These are available in dual heights as 25/40, 50/65, 75/90 & 85/100mm. The dual height chairs are also available with clips in the 50/65 and 75/90 range. The easy clip-on mechanism ensures correct placement, when walked upon, or disengagement at low spots.

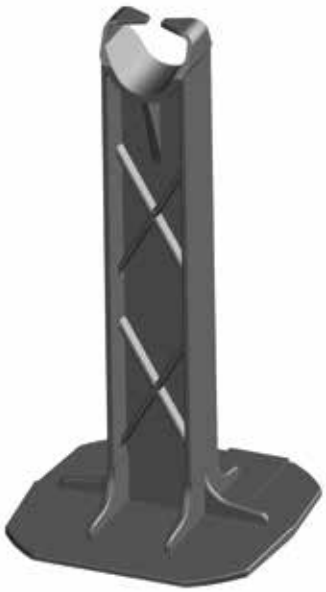
CODE	DESCRIPTION	BAG	PALLET
SOG 25/40	Combination SOG Chair with Base - 25mm & 40mm	100	5000
SOG 50/65	Combination SOG Chair with Base - 50mm & 65mm	100	6000
SOG 50/65C	Combination SOG Chair with Base - 50mm & 65mm plus Clip	100	6000
SOG 75/90	Combination SOG Chair with Base - 75mm & 90mm	100	4000
SOG 75/90C	Combination SOG Chair with Base - 75mm & 90mm plus Clip	100	4000
SOG 85/100	Combination SOG Chair with Base - 85mm & 100mm	100	4000

Slab on Ground Combination Chair

TALL SLAB ON GROUND CHAIRS

The TSOG Chairs are 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 with no rust problems. The easy clip-on system ensures the chair stays in place and the integral base saves time & labour with assembly. Ideally suited to commercial and civil projects such as deep slab on ground and road pavements. The chairs have been load tested to exceed 300kg, and are available in 100, 110, 120, 130, 140, and 150mm cover, for bar or mesh up to 20mm in diameter.

CODE	DESCRIPTION	BAG	PALLET
TSOG100	Single height SOG Chair with Base & Clip - 100mm	100	3200
TSOG110	Single height SOG Chair with Base & Clip - 110mm	100	3200
TSOG120	Single height SOG Chair with Base & Clip - 120mm	100	2800
TSOG130	Single height SOG Chair with Base & Clip - 130mm	100	2800
TSOG140	Single height SOG Chair with Base & Clip - 140mm	100	2400
TSOG150	Single height SOG Chair with Base & Clip - 150mm	100	2400



Tall Slab on Ground Chair

FOUNDATION FRAMES

Foundation Frames are lightweight, simple to use and offer a fast and efficient system to support mesh in strip footings. The reinforcement cages are easy to assemble, with clips that tie the top and bottom mesh together, which takes the place of ligatures, stirrups or other proprietary clips. The frames can be used on 8mm, 11mm and 12mm trench mesh. The frames clip onto the main longitudinal wire and the cross wire of the trench mesh at 900mm intervals, creating a rigid cage. 6 metre lengths can be quickly assembled outside of the trench, for placement after the trench is prepared. The bottom layer of mesh is supported 50mm off the ground, eliminating the need for trench mesh supports or bar chairs.

CODE	DESCRIPTION	PALLET
150/200FF	150/200mm Combination Foundation Frames	2500
250/300FF	250/300mm Combination Foundation Frames	2000
350/400FF	350/400mm Combination Foundation Frames	2000

Foundation Frame

Round Base Spacer

CONCRETE SPACERS - RECTANGULAR AND ROUND

PSA is a preferred distributor of all Max Frank concrete spacers in Australia. Designed to meet the requirements of relevant Australian Standards and Road Authorities, (including TMR-QLD, RMS-NSW & VicRoads); the comprehensive range caters for high compressive loads and are available with or without tie-wire. The range comprises both cast and extruded concrete with a minimum strength of 60 MPa.

ROUND BASE CAST SPACERS (MIN. 60 MPA)

CODE	COVER (MM)	BREADTH (MM)	WIDTH (MM)	WEIGHT EACH (KG)	QTY PER BAG	BAG WEIGHT (KG)	QTY PER PALLET
CCS20TRB	20	43	38	0.069	250	17.3	10,000
CCS25TRB	25	43	38	0.078	250	19.5	10,000
CCS30TRB	30	43	38	0.091	200	18.2	8,000
CCS35TRB	35	43	38	0.094	200	18.8	8,000
CCS40TRB	40	43	37	0.097	200	19.4	8,000
CCS45TRB	45	44	37	0.104	175	18.2	7,000
CCS50TRB	50	44	37	0.153	125	19.1	5,000
CCS55TRB	55	45	37	0.172	115	19.8	4,600
CCS60TRB	60	48	37	0.201	95	19.1	3,800
CCS65TRB	65	48	37	0.218	90	19.6	3,600
CCS70TRB	70	50	37	0.279	70	19.6	2,800
CCS75TRB	75	50	37	0.298	65	19.4	2,600
*CCS80TRB	80	55	40	0.314	60	18.9	2,400
*CCS85TRB	85	55	40	0.334	50	16.7	2,000
*CCS90TRB	90	60	50	0.471	40	18.8	1,600
*CCS95TRB	95	65	50	0.546	35	19.1	1,400
*CCS100TRB	100	65	55	0.621	30	18.6	1,200

Note: Spacers supplied with a 1.4mm diameter x 240mm long galvanised tying wire.
** Non Stocked Items- allow 8-12 weeks lead-time. For Australian stocked items please allow one week ex PSA*

CONCRETE SPACERS - TRAPEZOID

TRAPEZOIDS CAST SQUARE (MIN. 60 MPA)							
CODE	COVER (MM)	TOP WIDTH (MM)	BOTTOM WIDTH (MM)	WEIGHT EACH (KG)	QTY PER BAG	BAG WEIGHT (KG)	QTY PER PALLET
CCS20T	20	35	30	0.049	400	19.6	10,000
CCS25T	25	35	30	0.061	350	21.3	8750
CCS30T	30	35	30	0.073	250	18.3	6250
CCS35T	35	35	30	0.085	250	21.3	6250
CCS40T	40	40	35	0.129	150	19.4	3750
CCS45T	45	45	35	0.166	125	20.8	3125
CCS50T	50	50	40	0.233	85	19.8	2,125
CCS55T	55	55	45	0.317	60	19.0	1,500
CCS60T	60	60	45	0.382	50	19.1	1,250
CCS65T	65	65	50	0.498	40	19.9	1,000
CCS70T	70	70	55	0.633	30	19.0	750
CCS75T	75	75	60	0.788	25	19.7	625
CCS80T	80	80	65	0.970	20	19.4	500
CCS85T	85	85	65	1.105	20	22.1	500
CCS90T	90	90	70	1.333	15	20.0	375
CCS95T	95	95	70	1.500	15	22.5	375
CCS100T	100	100	75	1.770	10	17.7	250

Note: Spacers supplied with a 1.4mm diameter x 240mm long galvanised tying wire.

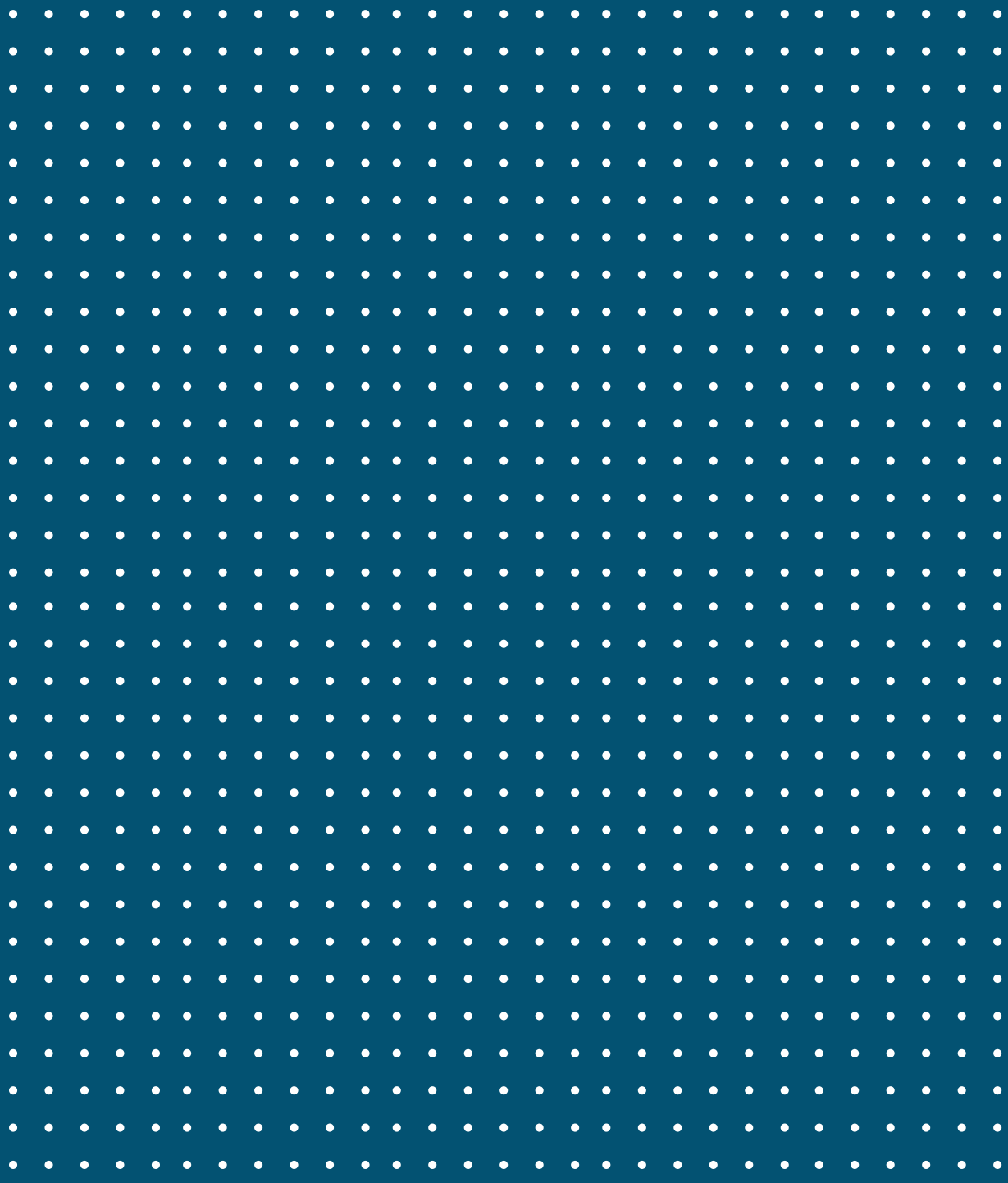
Trapezoidal Spacer

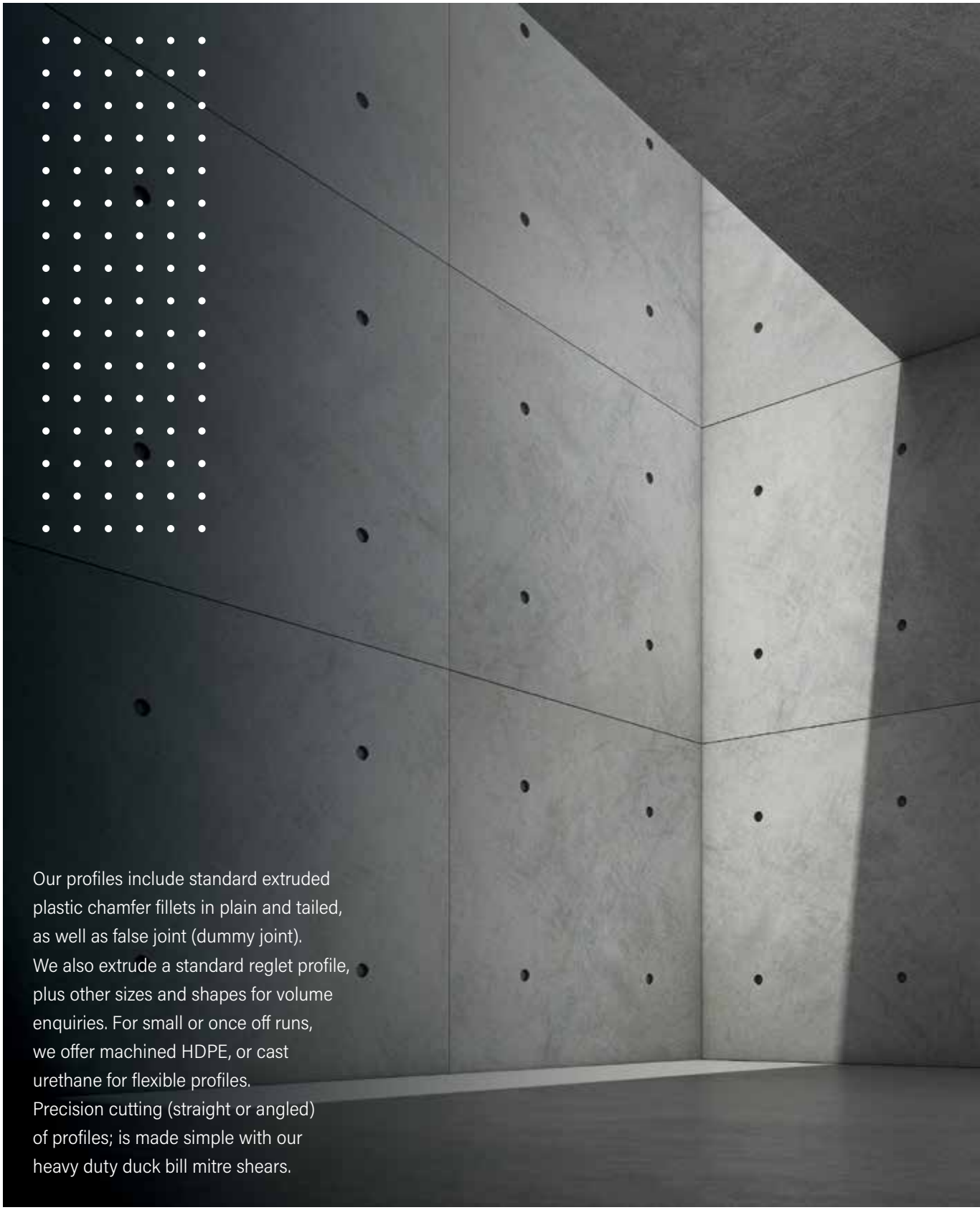
CONCRETE SPACERS - EXTRUDED ARCHED

EXTRUDED ARCHED BASE (MIN. 60 MPA)						
CODE	COVER (MM)	CUT WIDTH (MM)	WEIGHT PER 100 (KG)	QTY PER BAG	BAG WEIGHT (KG)	QTY PER PALLET
ECS202530T	20/25/30	20	2.8	750	21	30,000
ECS354050T	35/40/50	24	9.3	250	24	10,000
ECS455560T	45/55/60	24	15	125	19	5,000
ECS506070T	50/60/70	28	23.2	100	23	5,000
ECS657075T	65/70/75	28	30.8	65	20	2,600

Extruded Arched Spacer

PROFILES



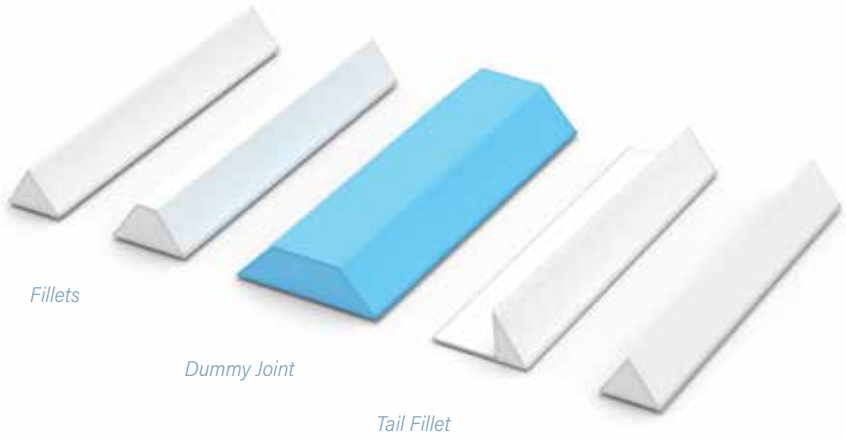


Our profiles include standard extruded plastic chamfer fillets in plain and tailed, as well as false joint (dummy joint).
We also extrude a standard reglet profile, plus other sizes and shapes for volume enquiries. For small or once off runs, we offer machined HDPE, or cast urethane for flexible profiles.
Precision cutting (straight or angled) of profiles; is made simple with our heavy duty duck bill mitre shears.

+ PROFILES

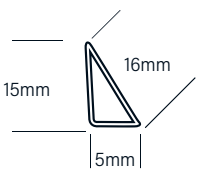
PLASTIC PROFILES

PSA's Profiles are extruded from a quality UPVC (foam) and rigid UPVC. These can be supplied with pre-assembled Double Sided Fabric Tape for easy installation. PSA profiles include standard extruded plastic chamfer fillets in plain and tailed, as well as dummy joint (false joint). We also extrude a standard reglet profile and can manufacture other shapes & sizes, subject to economical production runs. For small or once-off runs, we offer machined HDPE products. Other materials can be considered as we have in-house CNC facilities. If profiles are closely spaced or required to give an architectural pattern, we can offer an alternative urethane formliner.

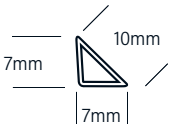


FILLETS

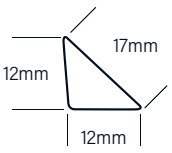
CODE	DESCRIPTION	PACK	CRATE
5/15FILLET	5mm x 15mm Fillet in 3m lengths Hollow	50	N/A
7FILLET	7mm Fillet in 3m lengths Hollow	50	N/A
10FILLET	10mm Fillet in 3m lengths Hollow	25	N/A
12FILLET	12mm Fillet in 3m lengths Solid	25	1475
15FILLET	15mm Fillet in 3m lengths Solid	25	1500
18FILLET	18mm Fillet in 3m lengths Solid	25	1250



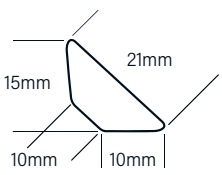
5/15mm Fillet



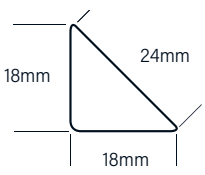
7mm Fillet



12mm Fillet



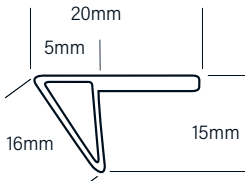
15mm Fillet



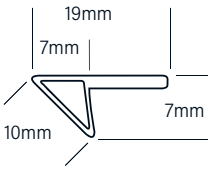
18mm Fillet

TAIL FILLETS

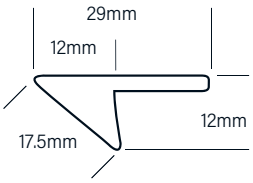
CODE	DESCRIPTION	PACK	CRATE
5/15TAILFILLET	5mm x 15mm Tail Fillet in 3m lengths Hollow	50	N/A
7TAILFILLET	7mm Tail Fillet in 3m lengths Hollow	50	N/A
10TAILFILLET	10mm Tail Fillet in 3m lengths Hollow	25	N/A
12TAILFILLET	12mm Tail Fillet in 3m lengths Hollow	25	1500
12DTAILFILLET	12mm Double Tail Fillet in 3.0m Lengths White	10	500
15TAILFILLET	15mm Tail Fillet in 3m lengths Solid	20	1500



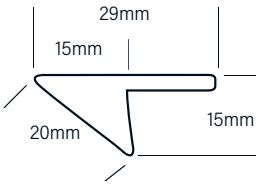
5/15mm Tail Fillet



7mm Tail Fillet



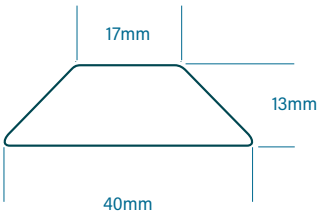
12mm Tail Fillet



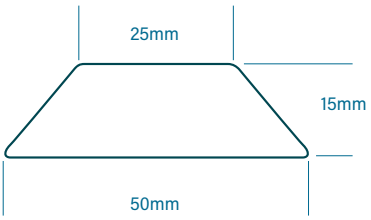
15mm Tail Fillet

DUMMY JOINTS & REGLET

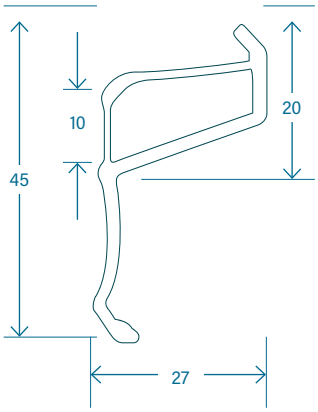
CODE	DESCRIPTION	PACK	CRATE
40DUMMYJOINT	40mm Dummy Joint in 4m Lengths Solid	10	500
50DUMMYJOINT3.0	50mm Dummy Joint in 3m Lengths Solid - 15mm top	20	500
50DUMMYJOINT4.0	50mm Dummy Joint in 4m Lengths Solid - 25mm top	10	500
REGLET-TYPE B	Type B Reglet in 2.5m Lengths Hollow	20	N/A



40mm Dummy Joint



50mm Dummy Joint



Type B Reglet

PRE-TAPED PROFILES

CODE	DESCRIPTION	PACK	CRATE
12FILLETDST	12mm Fillet with 8mm Double Sided Tape	25	N/A
12TAILFILLETDST	12mm Tail Fillet with 12mm Double Sided Tape	25	N/A
40DUMMYDST	40mm Dummy Joint with 38mm DST x 4m lengths	10	N/A

DUCK BILL MITRE SHEARS

CODE	DESCRIPTION	PACK
FCUTTER	Heavy Duty Duck Bill Mitre Shears	1

CORNER MOULD FILLETS

PSA Corner Fillets make light work of forming quality corner chamfers, within the pre-cast element. These fillets eliminate unsightly edges, providing for a true angle that can be replicated each time. Top & bottom mitres blend into the long edge fillets.

CODE	DESCRIPTION	BAG	BOX
12150FC	12mm Corner Fillet to suit - 150mm Panel - PINK	100	N/A
12175FC	12mm Corner Fillet to suit - 175mm Panel - GREEN	100	N/A
12180FC	12mm Corner Fillet to suit - 180mm Panel - RED	100	N/A
12200FC	12mm Corner Fillet to suit - 200mm Panel - YELLOW	100	N/A

PSA Corner Fillets may be adhered to the corners of formwork with silicone providing a neat 45° chamfer and mitre to the vertices.

Corner Mould Fillet

PLASTIC
PACKING SHIMS

PLASTIC
PACKING SHIMS

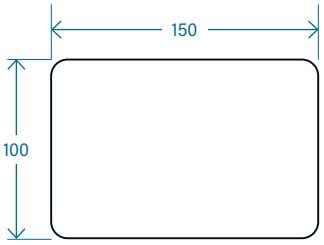
Our formulated plastic shims (packers) are designed to meet the testing requirements of AS3850. Whether they are used under precast concrete panels, the levelling of doors and window frames, packing stumps or between studs in the cladding market; our shims are produced with the same material formulation.

They are available in a variety of shapes and have colour coded thicknesses, for multiple applications. Panel packers are not UV stabilised and should be protected from UV by grouting.

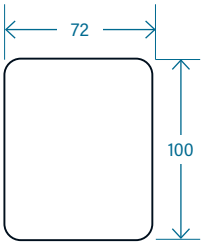
PLASTIC PACKING SHIMS

PANEL PACKING SHIMS

Available in full (150mm x 100mm) and half (75mm x 100mm) sizes, with thicknesses ranging from 1mm to 20mm. Primarily designed for levelling precast and tilt up panels prior to grouting. Panel packers may be used in a wide range of industries, e.g. bridge building, levelling structural steel and machinery. Colour coded by thickness for ease of selection, the PSA packing shims are manufactured from quality plastic and tested to compressive loads of up to 20 tonnes, in conformance with AS3850. Stamped with the PSA Logo and conformance rating during moulding, to assure you of a genuine and locally produced product.



Full Shim



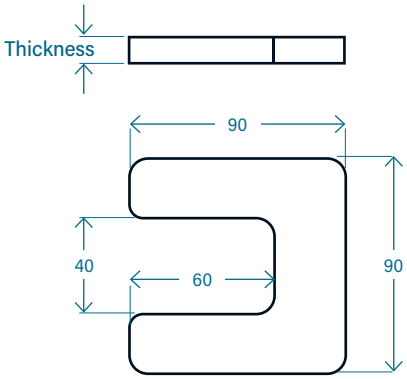
Half Shim

PANEL PACKER - FULL SHIM					
CODE	**DESCRIPTION**	**THICKNESS MM**	**COLOUR**	**BAG**	**PALLET**
01SHM	1mm Shims x 100 x 150	1	Brown	200	33600
02SHM	2mm Shims x 100 x 150	2	Blue	200	28800
03SHM	3mm Shims x 100 x 150	3	Green	100	19200
05SHM	5mm Shims x 100 x 150	5	Yellow	100	12800
10SHM	10mm Shims x 100 x 150	10	Black	40	6400
15SHM	15mm Shims x 100 x 150	15	Grey	40	4680
20SHM	20mm Shims x 100 x 150	20	White	30	3510
PANEL PACKER - HALF SHIM					
01HALF	1mm 1/2 Shims x 72 x 100	1	Brown	400	67200
02HALF	2mm 1/2 Shims x 72 x 100	2	Blue	400	57600
03HALF	3mm 1/2 Shims x 72 x 100	3	Green	200	38400
05HALF	5mm 1/2 Shims x 72 x 100	5	Yellow	200	25600
10HALF	10mm 1/2 Shims x 72 x 100	10	Black	80	12800
15HALF	15mm 1/2 Shims x 72 x 100	15	Grey	80	9360
20HALF	20mm 1/2 Shims x 72 x 100	20	White	60	7020

Full Shims

STUMPING SHIMS

Colour coded by thickness for ease of selection, these shims are designed specifically to level timber floors above concrete or hardwood stumps.



CODE	DESCRIPTION	THICKNESS MM	COLOUR	BAG
SS01	1mm x 90 x 90 Slotted Stumping Shim	1	Brown	200
SS02	2mm x 90 x 90 Slotted Stumping Shim	2	Blue	200
SS03	3mm x 90 x 90 Slotted Stumping Shim	3	Green	100
SS05	5mm x 90 x 90 Slotted Stumping Shim	5	Yellow	100
SS10	10mm x 90 x 90 Slotted Stumping Shim	10	Black	60
SS15	15mm x 90 x 90 Slotted Stumping Shim	15	Grey	40
SS20	20mm x 90 x 90 Slotted Stumping Shim	20	White	30

Stumping Shims

WINDOW SHIMS

Colour coded by thickness for ease of selection, these shims are ideal for dry lining, cladding, glazing, door installation and frame fixing.

WINDOW SHIMS: 75MM LONG WITH TYPICAL SLOT SIZE 13MM WIDE X 52MM LONG				
CODE	**DESCRIPTION**	**THICKNESS MM**	**COLOUR**	**BAG**
WS75-015	1.5mm x 37 x 75 Slotted Packer	1.5	Brown	200
WS75-03	3mm x 37 x 75 Slotted Packer	3	Green	200
WS75-05	5mm x 37 x 75 Slotted Packer	5	Yellow	200
WS75-065	6.5mm x 37 x 75 Slotted Packer	6.5	White	100
WS75-10	10mm x 37 x 75 Slotted Packer	10	Black	100

Window Shims

LARGE WINDOW SHIMS

LARGE WINDOW SHIMS- 90 MM LONG WITH TYPICAL SLOT SIZE 13MM WIDE X 66MM LONG				
CODE	**DESCRIPTION**	**THICKNESS MM**	**COLOUR**	**BAG**
WS90-015	1.5mm x 37 x 90 Slotted Packer	1.5	Brown	200
WS90-03	3mm x 37 x 90 Slotted Packer	3	Green	200
WS90-05	5mm x 37 x 90 Slotted Packer	5	Yellow	200
WS90-10	10mm x 37 x 90 Slotted Packer	10	Black	100

EXTRA LARGE WINDOW SHIMS

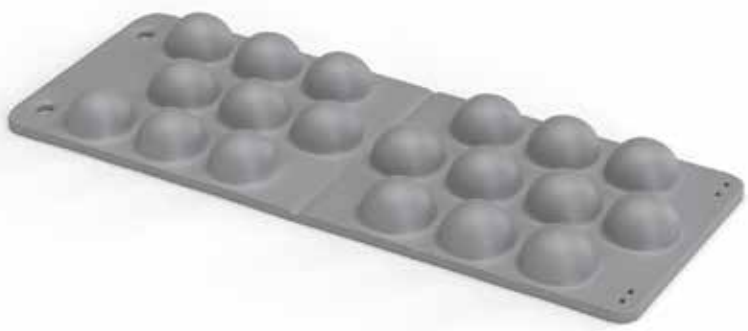
EXTRA LARGE WINDOW SHIMS: 140MM LONG WITH TYPICAL SLOT SIZE 13MM WIDE X 115MM LONG				
CODE	**DESCRIPTION**	**THICKNESS MM**	**COLOUR**	**BAG**
WS140-01	1mm x 38 x 140 Slotted Packer	1	Brown	200
WS140-02	2mm x 38 x 140 Slotted Packer	2	Blue	200
WS140-05	5mm x 38 x 140 Slotted Packer	5	Yellow	200
WS140-10	10mm x 38 x 140 Slotted Packer	10	Black	100

Extra Large Window Shims

PANEL PAD

A Panel Pad is primarily used to maintain separation between precast concrete panels in storage and during transit. It is impact resistant, prevents colour staining and allows for air circulation to aid the curing process.

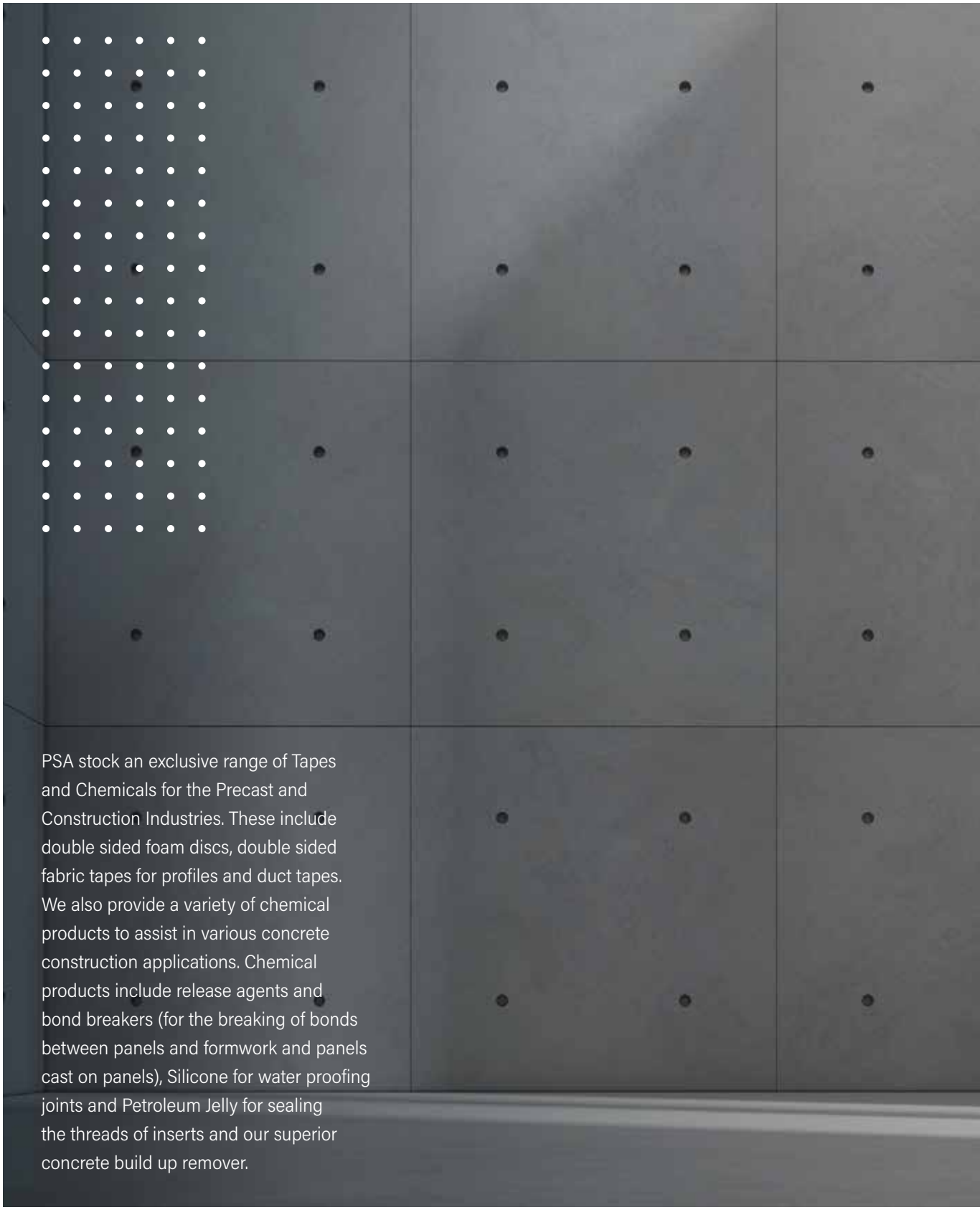
CODE	DESCRIPTION	BAG
12PP	12mm Thick Panel -Pad (173mm x 63mm)	200



Panel Pad

TAPES
+ CHEMICALS

TAPES +
CHEMICALS



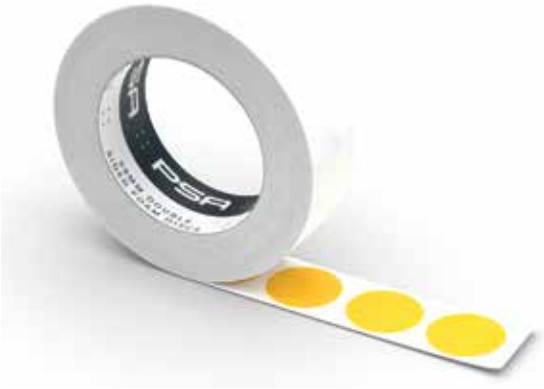
PSA stock an exclusive range of Tapes and Chemicals for the Precast and Construction Industries. These include double sided foam discs, double sided fabric tapes for profiles and duct tapes. We also provide a variety of chemical products to assist in various concrete construction applications. Chemical products include release agents and bond breakers (for the breaking of bonds between panels and formwork and panels cast on panels), Silicone for water proofing joints and Petroleum Jelly for sealing the threads of inserts and our superior concrete build up remover.

+ TAPES + CHEMICALS

DOUBLE SIDED FOAM DISCS

Double sided foam discs are die-cut to suit 58mm push-on and threaded ferrule locating plates and pipe locators. The main advantage of using die cut double sided tape is that no holes are required to be drilled through the precast table face thus saving time, money and the life of the table.

CODE	DESCRIPTION	ROLL	BOX
58DSTD	58mm Double Sided Tape Discs	800	3200
75DSTD	75mm Double Sided Tape Discs	640	1920



Double Sided Foam Discs

Tesa 4964 Double Sided Fabric Tape

TESA 4964 DOUBLE SIDED FABRIC TAPES

Tesa 4964 double sided fabric tape adheres well and can be removed cleanly, despite the use of mould release agents, thus making it an ideal replacement for traditional mechanical fixing methods. Commonly used for sticking polystyrene, dummy joint and fillet on precast beds and formwork. PSA stock a variety of widths from 12mm to 100mm. Other widths can be cut upon request.

CODE	DESCRIPTION	BOX
4964/12	4964 12mm x 50mtr Double Sided Fabric Tape	18
4964/16	4964 16mm x 50mtr Double Sided Fabric Tape	14
4964/20	4964 20mm x 50mtr Double Sided Fabric Tape	11
4964/38	4964 38mm x 50mtr Double Sided Fabric Tape	8
4964/100	4964 100mm x 50mtr Double Sided Fabric Tape	2

DUCT TAPES

Strong joining tape perfect for taping PVC elbows to spiral duct.

CODE	DESCRIPTION	BOX
48DT	48mm wide Duct Tape x 30m Rolls	60
72DT	72mm wide Duct Tape x 30m Rolls	48

Duct Tape

GTR Premium

GTR PREMIUM

GTR Premium is highly effective at removing concrete and cement residues. GTR Premium is less aggressive than other products on the market such as citric, hydrochloric and phosphoric acids. GTR premium can be applied to all substrates with no major impact (metal, glass, rubber, paints. Etc.) and does not damage spray guns.

CODE	DESCRIPTION	PACK
GTR25	Guard Tech Remover Premium 25 litre	1

STEELFORM RELEASE AGENT

SteelForm is a specially formulated, chemically reactive, copolymer bond breaker for use in steel and plywood forms and is suitable for all general construction applications

CODE	DESCRIPTION	PAIL
S-RELEASE208	PSA Release Agent - 208 Litre	1
S-RELEASE1000	PSA Release Agent - 1000 Litre	1

Form Release Agent J3

Bond Breaker J6D

BOND BREAKER J6D

SURE LIFT™ with Dye J6D. Solvent based Sure Lift™, is a reactive, membrane forming bond breaker, for use in tilt-up wall construction. Sure Lift™ is a special formulation of polymers and ingredients designed to provide clean, easy lifting of tilt-up panels. Sure Lift™ with Dye J6D, has a non-permanent dye for ease of visual inspection during application and is also available without the dye upon special request.

CODE	DESCRIPTION	PAIL	DRUM
J6D20	SURE LIFT™ with Dye J6D~ 18.9 Litres	1	N/A
J6D208	SURE LIFT™ with Dye J6D~ 208.2 Litres	N/A	1

SILICONE-N

Multi-functional, easy to apply and extrude. Extremely flexible, non-shrinking and provides a durable seal. Excellent adhesion to mortar, stone, ceramics, grout and metal. Fast curing for a high quality, rain-ready, weatherproof seal.

CODE	DESCRIPTION	BOX	PALLET
1002/W	300ml Neutral Cure Silicone - White	24	2400
1002/C	300ml Neutral Cure Silicone - Clear	24	2400
AC400C	AFA Acrylic Sealant - Clear (For use with AFA formliners)	24	2400

Silicone-N

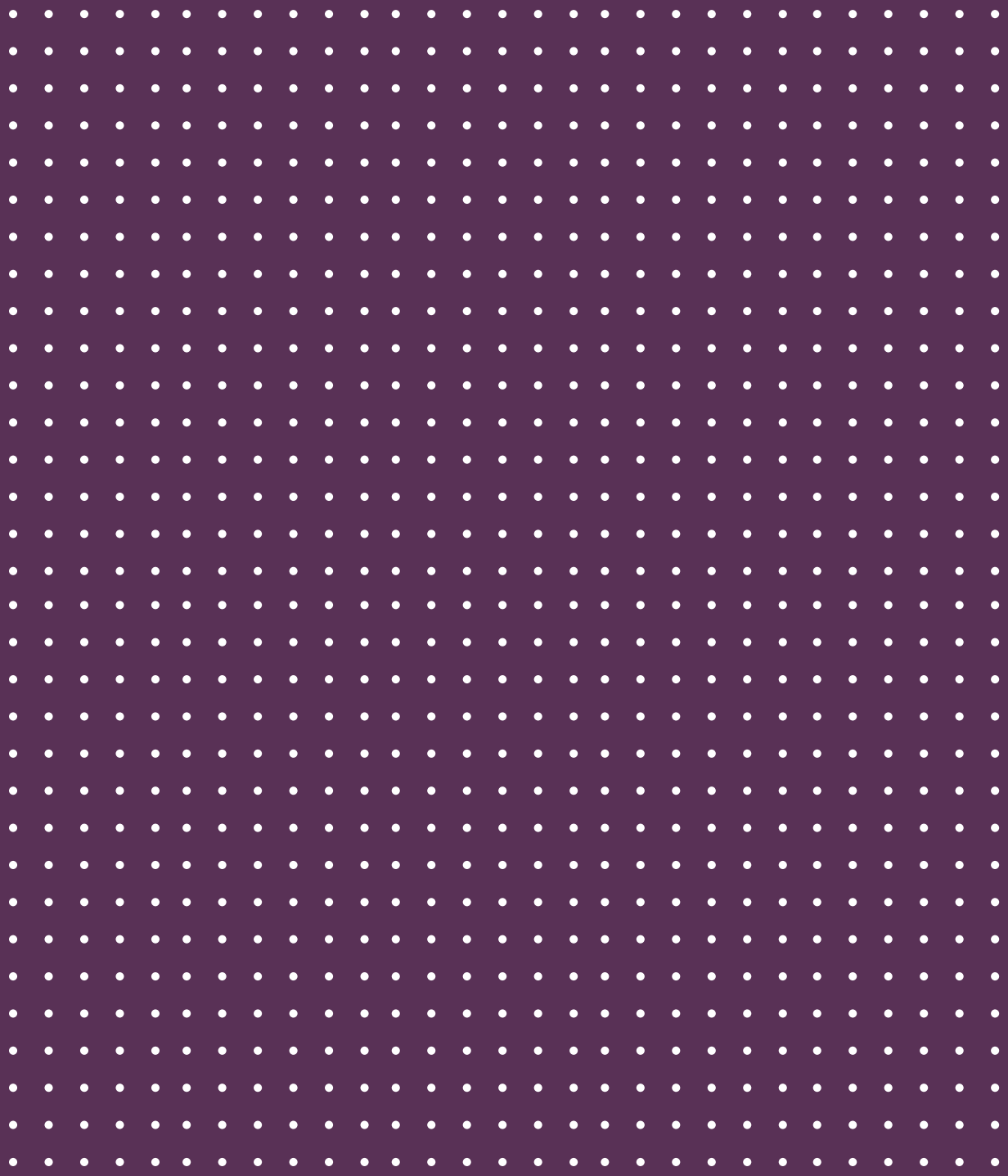
Snow White Petroleum Jelly

SNOW WHITE PETROLEUM JELLY

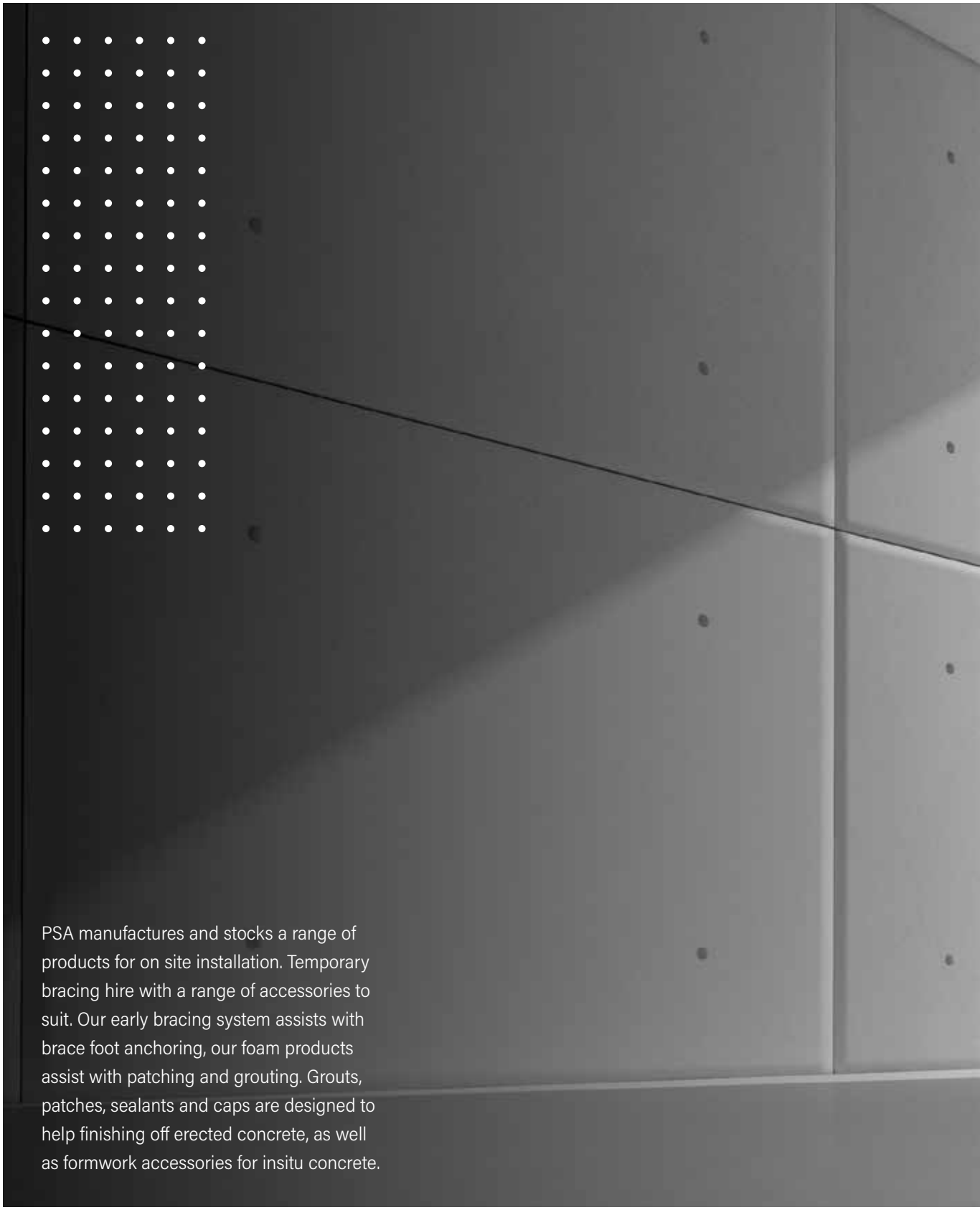
Snow white petroleum jelly is a highly purified, non-staining, white petroleum jelly. Ideal for lubricating ferrules before connecting to the ferrule locating plate or antenna cap.

CODE	DESCRIPTION	TUB
SWPJ20	Snow White Petroleum Jelly - 20kg	1

INSTALL



INSTALL



PSA manufactures and stocks a range of products for on site installation. Temporary bracing hire with a range of accessories to suit. Our early bracing system assists with brace foot anchoring, our foam products assist with patching and grouting. Grouts, patches, sealants and caps are designed to help finishing off erected concrete, as well as formwork accessories for insitu concrete.

+ INSTALL

BRACE HIRE

PSA offers the service of panel brace hire through our two branches in Melbourne and Brisbane. This includes a full range of sizes and capacities, which are maintained after each use and checked for conformance. Our branches also offer a range of installation products, such as grouts and epoxies, early bracing systems and T-locks, to compliment the brace hire. PSA can assist in pre-construction, site collaboration on the design intent and offer assistance in brace type selection; (Mini, Standard, Jumbo, etc.). PSA can also provide associated drawings for the erection and certification. Typical brace types, lengths and load capacities are outlined in the table below.
Ask one of our staff for assistance.

BRACE TYPE	CLOSED	kN	OPEN	kN
BH-S-Super Jumbo	8.5m	25kN	14.5m	4kN
BH-R-Jumbo (1)	6.4m	30kN	11.5m	8kN
BH-S-Special	5.7m	28kN	9.4m	5.5kN
BH-R-Standard (2)	4.4m	40kN	6.8m	14kN
BH-R-Mini (3)	2.6m	35kN	4.4m	30kN
BH-R-Apt Mini (4)	2.4m	35kN	3.8m	30kN
BH-S-Super Trench (5)	1.55m	35kN	2.5m	25kN
BH-B-Trench (6)	1.0m	35kN	1.7m	25kN
STRONGBACKS				
SB12	1.2m Strongback			
SB18	1.8m Strongback			
SB36	3.6m Strongback			

Typical brace installation

LOCKS

The T-Locks innovative design makes it a reusable safety system that is easy to use and fits all existing concrete panel braces. One of the unique features is the one-handed operation. Simply push the button to secure the T-lock. Open or closed position will be shown by the visual safety indicator. Also available a single use disposable padlock

CODE	DESCRIPTION	PACK
T-LOCK	T-Lock (Lock, pin and key)	1
PSADL	PSA Disposable Lock	50

T-Lock™

ClawClip

CLAWCLIPS

ClawClip is a patented steel fixing system for precast or tilt-up concrete panels.
Once a concrete panel has been positioned, the ClawClip system secures the panel to the structural steel, with one quick impact-gun action, saving time and money. The ClawClip system eliminates the need for on site welding. This is achieved with the specially designed stainless steel spring, combined with the unique shape of the cleat tail and flanged grip bolt, securing the panel clip into its correct position.

CODE	DESCRIPTION	PACK
CWS10	Standard Claw Clip, 10mm Thick Cleat, 150mm long with a 70mm Bolt	12
CWL12	Extra long Claw Clip, 12mm Thick Cleat, 185mm long with a 70mm Bolt	8

PSA BOLTS

PSA Flange bolts incorporate a circular ribbed flange under the bolt head, to act as a washer, to distribute the load.

A Panel Brace Anchor is a heavy duty, torque setting, expansion anchor, designed to fasten the foot plate of panel braces.
Our PBA20 is tested to conform to AS3850.

CODE	DESCRIPTION	BOX	PALLET
FB2060/4.6	M20 x 60 Flange Bolt 4.6 class	50	3600
FB2070/4.6	M20 x 70 Flange Bolt 4.6 class	50	3600
PBA20	M20 x 115mm Panel Brace Anchor	25	2100
CB2065ZF	M20 x 65mm Coil Bolt Zinc	50	N/A

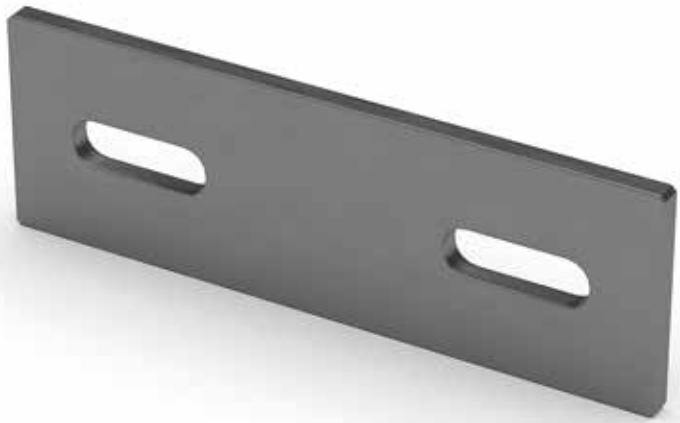
Flange Bolt

Panel Brace Anchor

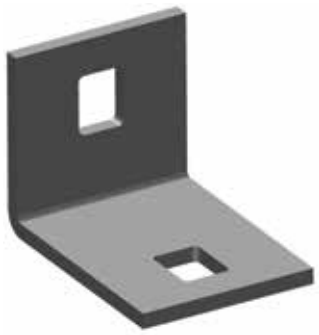
STITCH PLATES

PSA stocks a range of standard flat and corner connection plates, for panel installations. The slotted holes in the plates compensate for any construction tolerances for ease of installation. Apart from our standard range, custom plates can be made to order.

CODE	DESCRIPTION	PACK
SPC200150	Corner Stitching Plate 150mm x 200mm x 10mm with 2 horizontal Slotted Holes	1
SPF300100/10	Flat Stitching Plate - 100mm x 300mm x 10mm with 2 horizontal slotted holes	1
SPF300150/12	Flat Stitching plate – 150mm x 300mm x 12mm with 2 horizontal slotted holes	1



Stitch Plate



Bent Angle (custom)

Equal Angle (custom)

EARLY BRACING SYSTEM (EBS)

PSA has designed and produced an assembly to provide for the early bracing of pre-cast elements. Tested to comply with Australian Standards.

The PSA EBS consists of a customised early bracing chair, upon which the steel foot anchor is mounted. The void tube and cap completes the assembly in readiness for the concrete pour, achieving a 25kN+ pull-out capacity, in early cured (green), low strength concrete.

Pre-cut Threadbar is stocked in 660mm lengths or may be made to specific size, subject to minimum volume requirements.

CODE	DESCRIPTION	PACK SIZE
EBSEPC	EBS Anchor Chair (30mm Cover)	50
EBSFA	EBS Foot Anchor	25
PSB16660	16mm PSA Threadbar 660mm	25
EBSVT	EBS Void Tube 3.0m lengths	10 lengths
EBSCAP	EBS Removable Void Tube Cap	100
EBSLNUT	EBS Lock Nut x 30mm long-Steel	50
EBSWNUT	EBS Wing Nut	50
EBSVTS	EBS Void Tube Sleeve	100
BG36	Protective Cap for Reo Bars up to 36mm	100

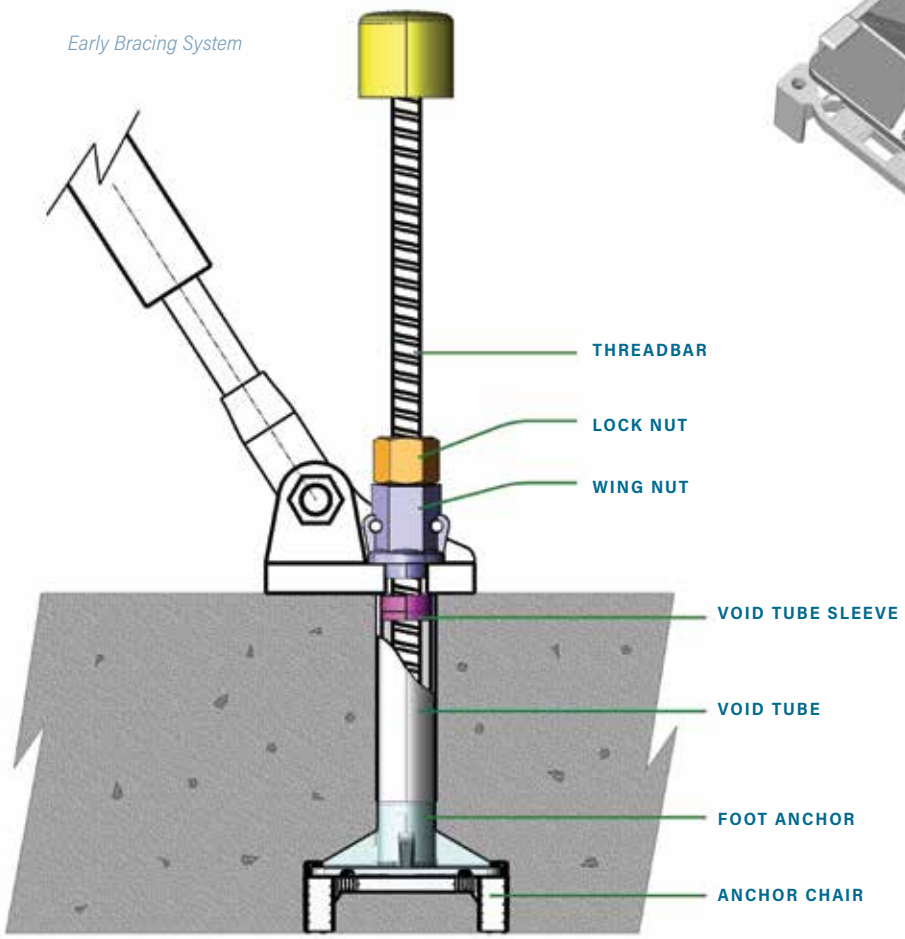
GROUTS & PATCH

PSA stocks a comprehensive range of grouts used in the construction market. They include general purpose grouts, to high strength grouts used in the installation of tilt-up and precast panels; to concrete repairing products for cracks, cast-in plate voids and bug holes.

CODE	DESCRIPTION	EACH
PANEL GROUT - O/W	Panel Grout 20kg - Off White	1
PANEL GROUT - G	Panel Grout 20kg - Grey	1
GP GROUT	General Purpose Grout 20kg	1
HS GROUT	High Strength Grout 20kg	1
UHS GROUT	Ultra High Strength Grout 20kg	1
FAIRING COAT	Fairing Coat 20kg	1
ULW - O/W	Ultra Light Weight patch 10kg - Off White	1
ULW - G	Ultra Light Weight patch 10kg - Grey	1

Early Bracing System Assembly

Early Bracing System



FERRULE PATCH CAP

Concrete grey patch that is inserted into 20mm bracing ferrules, when braces have been removed from the panels. This eliminates grouting of the ferrule holes, even if the ferrules are not perpendicular to the panel face. The Patch Cap has a UV protective agent within the polymer, to minimise premature aging in exposed areas.

FERRULE PATCH CAP		
CODE	**DESCRIPTION**	**BOX**
FPC20	Ferrule Patch Cap 20mm (75mm OD)	600

Ferrule Patch Caps

BAR GUARD			
CODE	**DESCRIPTION**	**PACK**	**PALLET**
BG36	Protective Cap for Reo Bars up to 36mm and for star pickets	100	5000

Bar Guard

FOAM PRODUCTS

PSA supplies foam products for various specialist applications, including expansion jointing, donuts for pipe sealing and backing rods. Special widths and thicknesses can be produced to order, including donuts with adhesives, (based on minimum order requirements).

FOAM DONUTS			
CODE	**DESCRIPTION**	**BOX**	**PALLET**
DN7520	Donut 75mm OD x 18mm ID x 20mm thick	250	2500
DN10040	Donut 100mm OD X 18mm ID X 40mm thick	200	2000
DN11540	Donut 115mm OD X 60mm ID X 40mm thick	200	2000

Foam Donuts

FOAM BACKING STRIPS		
CODE	**DESCRIPTION**	**BUNDLE**
BFA2030	20 x 30 Backing Foam in 2.0m lengths with Adhesive	100
BFA3030	30 x 30 Backing Foam in 2.0m lengths with Adhesive	100
BFA5050	50 x 50 Backing Foam in 2.0m lengths with Adhesive	50

FOAM BACKING RODS		
CODE	**DESCRIPTION**	**BOX**
BR10250	Backing Rod 10mm x 250m Roll	6
BR1550	Backing Rod 15mm x 50m Roll	16
BR2050	Backing Rod 20mm x 50m Roll	10
BR2550	Backing Rod 25mm x 50m Roll	6
BR3050	Backing Rod 30mm x 50m Roll	4
BR4002	Backing Rod 40mm x 2m Length	80

CONDUITS AND CONES

PSA stocks conduits and cones to suit 15mm and 20mm tie bars for formwork systems. Other size conduits are available upon request.

CODE	DESCRIPTION	PACK	CRATE
FWCOND20	Conduit to suit 15mm tie bars, 4.0m lengths - 21.1mm ID	10 Lengths	500
FWCOND25	Conduit to suit 20mm tie bars, 4.5m lengths - 26.8m OD	10 Lengths	730
CONE20	18.0mm ID Cones (Suit FWCOND20)	500	N/A
CONE25	22.5mm ID Cones (Suit FWCOND25)	500	N/A

Conduits and Cones

REPAIR PLUGS

Repairs nominal 19mm formwork holes providing for a flush finish. Plastic plugs (pictured) are for repairing formwork and solid plugs for standard 6.5mm holes in precast beds.

CODE	DESCRIPTION	PACK
FWRP19	19mm Formwork Repair Plug	1000
BEDPLUGP	Plastic Plug to repair 6.5mm drill holes in metal forms	2000
BEDPLUGM14G	14 Gauge Metal Bed Plugs for Precast tables	5000

19mm Formwork Repair Plugs

ACRYLIC JOINT SEALANTS

Our construction joint sealants are ideal for both internal and external applications. Apart from general purpose type sealants, we carry hybrid and a sealant formulated to act as a barrier for incursion of fire in expansion joints and penetrations.

CODE	PACK SIZE	BOX
Acrylic Joint Sealant	600ml Sausage	15
Acrylic Joint Sealant 10L	10lt Pail	1
Acrylic Fire Rated Sealant	600ml Sausage	15
Acrylic Fire Rated Sealant 10L	10lt Pail	1
Hybrid Joint Sealant	600ml Sausage	15
Fire Rated Hybrid Sealant	600ml Sausage	15

PANEL ID PLATES

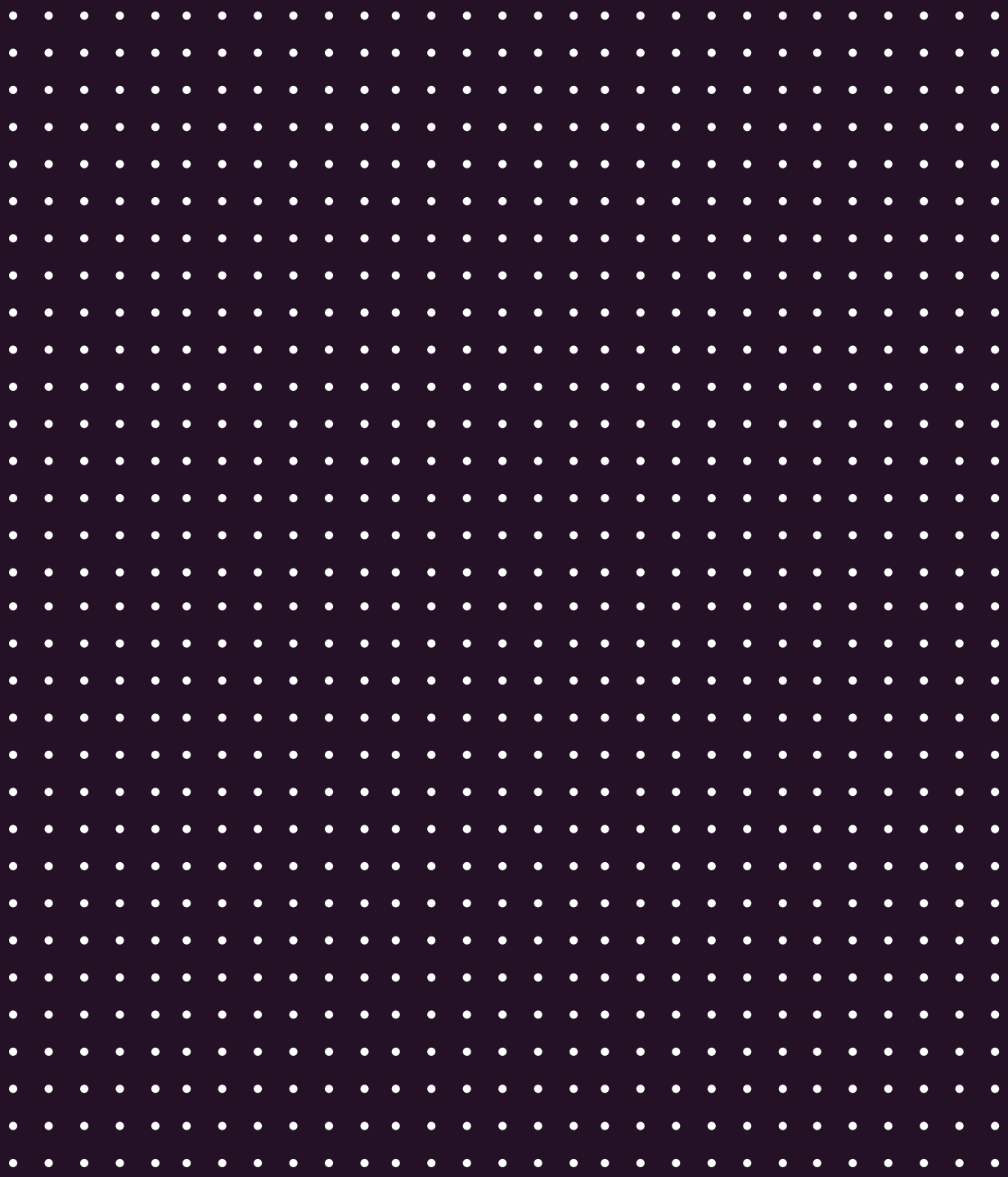
Permanent identification plates are cast into panels and other precast elements, by mechanically fastening with a break off nib, or by using the raised face for double sided tape. Available in a variety of colours to distinguish your projects. With AS3850 requiring suppliers to provide traceability on structural components, contact us to enquire about having Panel ID plates moulded with your business logo.

CODE	DESCRIPTION	BOX	PALLET
SP/YELLOW	Yellow Slim Line ID Plate - 75mm x 180mm	140	4480
SP/WHITE	White Slim Line ID Plate - 75mm x 180mm	140	4480
SP/RED	Red Slim Line ID Plate - 75mm x 180mm	140	4480
SP/PINK	Pink Slim Line ID Plate - 75mm x 180mm	140	4480
SP/ORANGE	Orange Slim Line ID Plate - 75mm x 180mm	140	4480
SP/LIGHTBLUE	Light Blue Slim Line ID Plate - 75mm x 180mm	140	4480
SP/GREY	Grey Slim Line ID Plate - 75mm x 180mm	140	4480
SP/GREEN	Green Slim Line ID Plate - 75mm x 180mm	140	4480
SP/BROWN	Brown Slim Line ID Plate - 75mm x 180mm	140	4480
LP/WHITE	White Wide Panel ID Plate - 100mm x 180mm	100	3200
LP/YELLOW	Yellow Wide Panel ID Plate - 100mm x 180mm	100	3200

**Other colours are available in this range, subject to minimum order requirements.*

Panel ID Plates

SPECIALITY SERVICES



PSA is committed to the development of new and innovative components which supplement the market's need for increased in-yard and on-site efficiencies. Our team of technical specialists, engineers and designers offer a range of tailored speciality services suitable to all types of architectural, civil, industrial and commercial applications. Whether you require complex prototype and product design, component production, mould tooling design or specialist purpose-built equipment, our team of experts are here to help.

PSA offers Detailed Engineering Design and Consultation for lifting and bracing compliance to National Standards and Certification, including Queensland RPEQ.

PSA SPECIALITY SERVICES INCLUDE:

1. Engineering and Technical Support
2. Product Development & Manufacturing
3. Custom Moulding
4. Architectural Formliners
5. Custom Polystyrene Supply
6. Machined and Speciality Plastics

+ SPECIALTY SERVICES

ENGINEERING & TECHNICAL SUPPORT

PRECAST PANEL LIFTING DESIGN AND CERTIFICATION

Detailed design is conducted for safety and compliance in the lifting and bracing of concrete structural elements. CPEng and RPEQ certified engineers can provide over the phone and on-site engineering technical support across the following:

- Place lifting points on each individual drawing
- Rigging diagrams
- Sling lengths
- Specify Strongbacks where required
- Additional reinforcement if required
- On-site and phone technical support
- Certification letters

PRECAST AND TILT-UP ERECTION DESIGN ENGINEERING

- Designs verification
- Independent lifting and bracing design verification
- Check lists and certificate of design compliance

PRECAST PANEL HANDLING AND BRACING RISK ASSESSMENT

- On-site and precast yards
- Prepare Work Method Statement (WMS)
- Certificate of compliance

TEMPORARY WIND BRACING DESIGN AND COMPLIANCE CERTIFICATE

- Locate panel brace insert point
- Show brace foot distance on slab
- Specify brace type (Mini, Standard, Jumbo, etc.)
- Bracing diagram on shop drawings
- Check for brace clashes
- Pre-construction site meeting
- Certification letter

TEMPORARY FOOTING DESIGN

- Temporary strip footing design
- Temporary 'deadman' design

LIFTING AND BRACING PRODUCT PERFORMANCE VERIFICATION

- Perform independent product performance assessment, in accordance with relevant standards
- PSA can offer the services of an Erection Design Engineer, providing the necessary design checks and certification for all stages of the precast element handling, including any temporary engineering works.

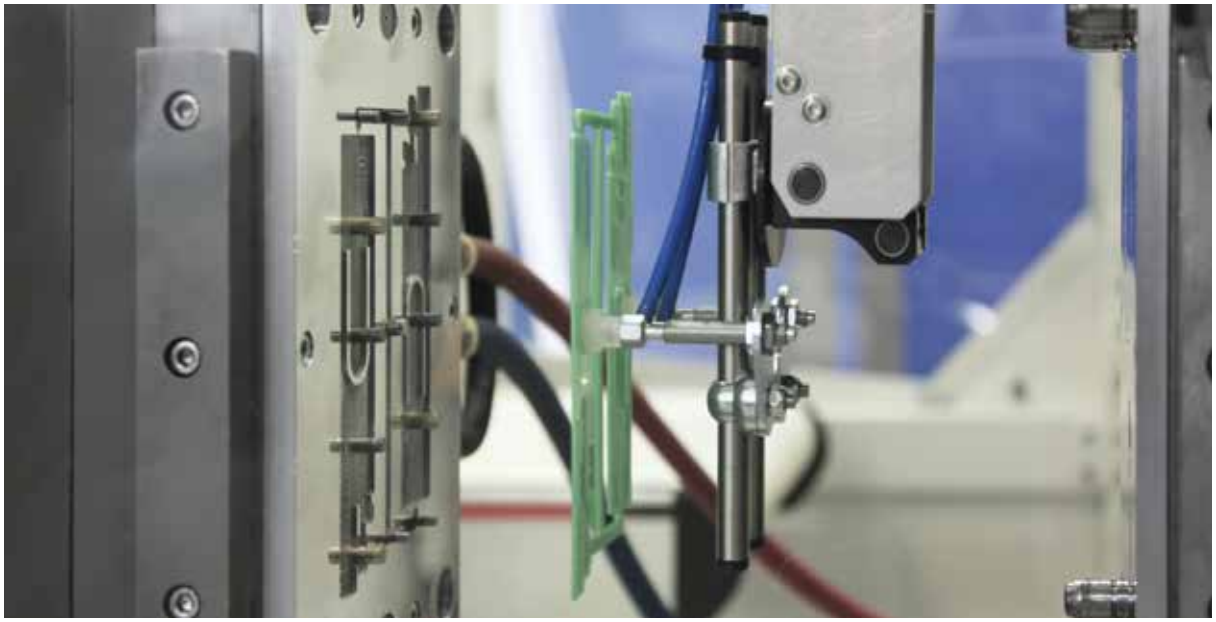
PRODUCT DEVELOPMENT & MANUFACTURING

PSA employs experienced internal resources for complex product design, mould tooling design and special purpose-built equipment, to aid production and develop specialised products in a variety of plastic and metal materials. As PSA is highly specialised in the manufacturing and processing disciplines, our product development team focus on solving product application problems within the industry and pride themselves on the supply of quality, creative and useful products, into the marketplace.

Other features of our product development and manufacturing services include:

- Providing proprietary manufacture of componentry and assemblies, within a sophisticated well-equipped manufacturing plant, PSA is able to provide the precast, tilt-up and concrete markets in general, with a quality product range.
- Our continued growth affords us the opportunity to utilise industry leading technology with high end CAD and robotics capability.
- We liaise directly with the experts within the industries where we offer uniquely designed products.
- Our collaborative approach allows for the inventive phase of concept design to evolve.
- Product development is not limited to the markets that we currently service and can cater to a client specific application. (Subject to minimum order quantities).
- We can modify our existing moulding tools to accommodate additional features that complement an existing product or simply produce new primary tooling components for innovative development.
- In addition to our primary plastic components, ancillary products are produced using polystyrene, steel and timber.
- PSA is also committed to the ongoing review of natural resources and the conservation of energy. Australian manufacturing is the core to our sustainable supply of product. Our use of recycled polymers, internal recycling of waste materials (where possible) and energy efficient, safe production processes, allow us to manufacture products that minimise negative environmental impacts.

Whether you have an issue out in the field or want to bring a product to market, contact our Product Development team for expert service and advice.



CUSTOM MOULDING

For over 20 years, PSA has been leading the way in injection moulding across a range of products for various industries and applications. Advantages of using PSA for your custom injection moulding needs include:

- We use state-of-the-art injection moulding machines to minimise changeovers and reduce shot weights.
- Our Manufacturing division has a strong focus on lean manufacturing through robotics and semi automation, allowing operation 24/7.
- We create value for customers by utilising renowned closed loop machinery with the latest green servo power efficient technology to reduce our carbon footprint.
- We can access and review your die for damage or wear and provide quotes to fix or renew if necessary.

Need a priced estimate for your custom moulding requirements? Contact our team today.

ARCHITECTURAL FORMLINERS

Architectural Formliners Australia is an additional company of PSA and specialises in the design and manufacturing of high-quality urethane form liners. Our range of innovative products enable Architects to achieve unique and beautifully textured finishes to the surfaces of pre-cast panels in a variety of applications. AFA provides design consultation and support throughout the process to help our clients determine the best solution with their timeline, budgets and resources in mind. While we offer a variety of beautiful designs, our creative engineers and sculptors can custom make master patterns to suit any desired structural and aesthetic vision.
To view our range of products, visit the Architectural Formliners website.

SOLUTIONS FOR ARCHITECTS

- Our superior urethane form liners, thermoformed liners and brick inlay systems for concrete can help you make your architectural concepts a reality.
- We have the technology and experience to interpret the design integrity, whilst offering innovative construction methods.
- From large projects requiring repetitive patterns, to small customized cast-in-place jobs, we have solutions to meet your individual needs.

SOLUTIONS FOR PRECAST

From quality constructed form liners to our Brick Inlay Systems, our range of patterns and designs will enhance the look and appeal of your concrete panel.

SOLUTIONS FOR CONTRACTORS

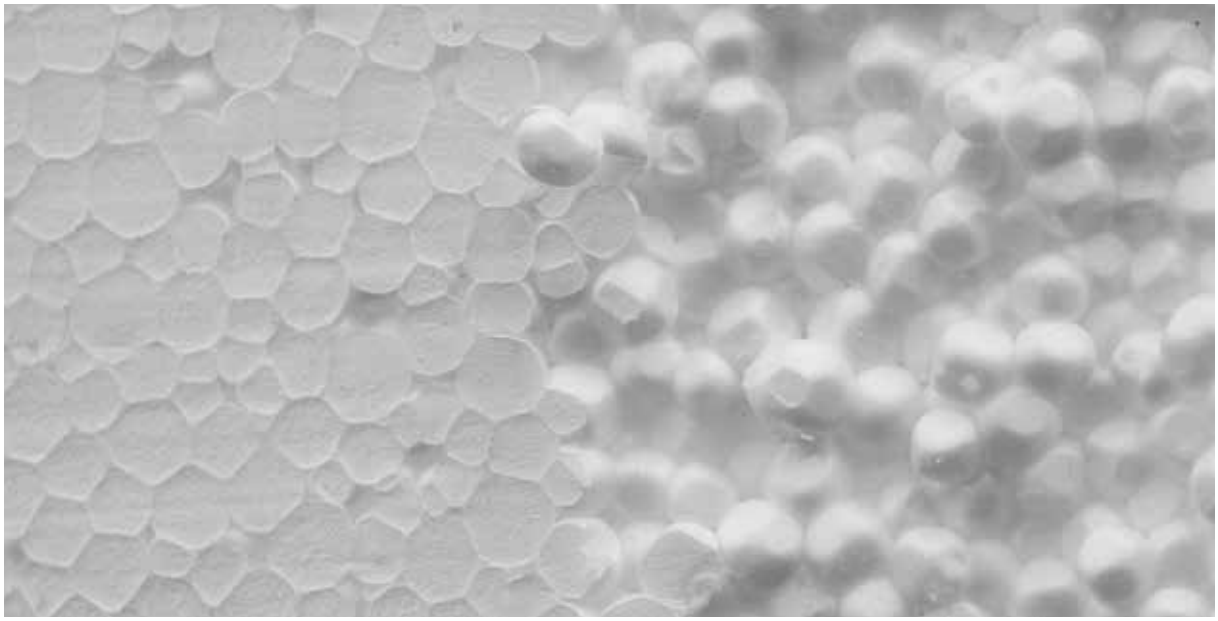
Our form liner products are suitable for bridges, freeway noise walls, high rise apartments and offices, infrastructure and retaining walls.

SOLUTIONS FOR TILT-UP

Beautiful and economical, our quality multiple use urethane form liners and single use Thermoform liners are the perfect solutions for your tilt-up construction needs.

Multiple use urethane formliners are suited to formwork that can be re-used up to 100 times.
For in-situ applications, where continuous pours are required, the Thermoform liners are best suited.
Consideration needs to be given to the limited sheet size of approximately 3.6m x 1.2m.

AFA



POLYSTYRENE

PSA supplies expanded polystyrene products for a broad range of applications such as building construction, foam wall insulation and architectural profiles. Our polystyrene profiles are available in custom-designs, standard blocks, sheets and moulded shapes. If you are looking for cost effective voids and shapes, we offer a 'cut to size' service. Standard polystyrene sheets of 1.2 metres x 2.4 metres at various thicknesses are available.

CODE	DESCRIPTION	PACK
PSB30/200	30mm x 200mm x 200mm Polystyrene Cast-in Plate Recess	1000
PSS10	10mm x 1200mm x 2400mm Polystyrene Sheet	1
PSS20	20mm x 1200mm x 2400mm Polystyrene Sheet	1
PSS30	30mm x 1200mm x 2400mm Polystyrene Sheet	1
PSS50	50mm x 1200mm x 2400mm Polystyrene Sheet	1
PSS100	100mm x 1200mm x 2400mm Polystyrene Sheet	1
PSS150	150mm x 1200mm x 2400mm Polystyrene Sheet	1
PSS175	175mm x 1200mm x 2400mm Polystyrene Sheet	1
PSS180	180mm x 1200mm x 2400mm Polystyrene Sheet	1
PSS200	200mm x 1200mm x 2400mm Polystyrene Sheet	1

XPS AND ANCHOR SYSTEM

PSA XPS is a highly versatile construction material, with high compression strength and superior thermal performance, which is ideal for sandwich and core insulated double walls. The securing anchor system is made of glass fibre reinforced plastic (GRFP) pins to compliment the thermal properties of the XPS.

CODE	DESCRIPTION	PACK
THP 185-40	Thermopin 185mm long horizontal	250
PSX PS30	XPS Polystyrene Sheet 2400 x 600 30mm (1.44m2)	1
PSX PS40	XPS Polystyrene Sheet 2400 x 600 40mm (1.44m2)	1
PSX PS50	XPS Polystyrene Sheet 2400 x 600 50mm (1.44m2)	1
PSX PS75	XPS Polystyrene Sheet 2400 x 600 75mm (1.44m2)	1

XPS

Thermo Pin

MACHINED AND SPECIALITY PLASTICS

PSA can supply a vast range of high-quality plastic rods, sheets, tubes and other speciality plastic materials. We proudly offer a vast array of customised speciality products for non-standard profiles and formwork applications as well as the machining of various grades of plastics such as HDPE & nylon and engineering grade polymers. Where speciality parts are needed, we have access to extensive machining facilities utilising state-of-the-art CNC machinery and CAD/CAM technology. The ensures our customers receive precise, high quality machines components and accurate fabricated assemblies. PSA also offers similar services for the machining of timber in any of the associated custom profiles or 3D shapes.

PRODUCT CATALOGUE

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