



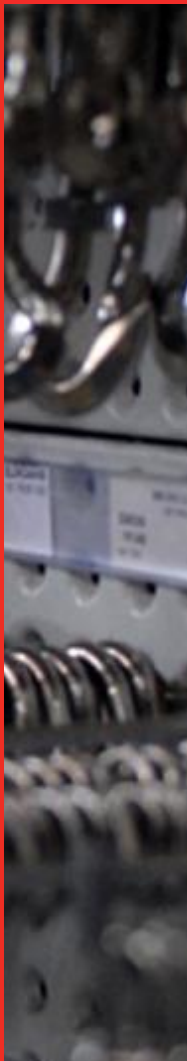
# ***Specialised*** ***Wholesale & Plastics***

## **PRODUCT GUIDE**

# **2014**



Fasteners  
Plastics  
Switchboard  
Hardware  
Bolts  
Nuts & Washers  
Allthread  
Rivets  
Nova Strut  
Castors  
Hinges  
Tapes & Rubber  
Gas Stays  
Catches & Latches  
Holesaws  
Engineering Plastics  
Power Tools  
Marine Fittings  
Balustrading  
Lubricants  
Foams  
Composite Decking  
Splashbacks  
Locks  
Safety Mats  
Signage Plastics  
Handling  
Clamps  
DIY  
Locking Rods  
Manufacturing  
Plastic Fabrication



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# Manufacturing Services



...from DESIGN to MANUFACTURE, we are real problem solvers working with you to get the outcome you want. Our manufacturing capabilities include:

- Plastic Fabrication
- CNC Routing
- Machining Capability
- Sheetmetal Fabrication
- Polyurethane Casting
- Guarding
- Point of Sale Displays
- Acrylic Folding & Casting
- Cut-To-Size Services
- Plastic Welding
- Component Machining
- Plastic Bushes & Bearings
- Diamond Polishing
- Heat Folding
- Flame Polishing
- MIG & TIG Welding
- Guillotining
- Folding & Pressing



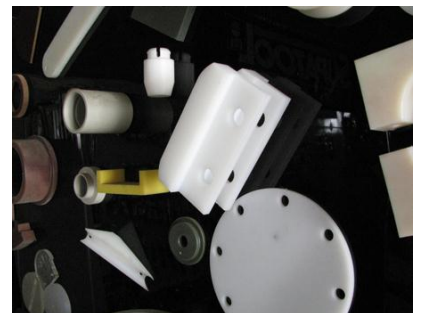
Cut-To-Size Service



High Precision CNC Routing



Machine Guard Manufacture



Component Machining

Talk to our experienced team today about custom fabricating to your specifications. Big or small, we have the skills, knowledge and know how to guarantee that your next project is a success.

We truly are a one-stop-shop, catering to all of your needs in one convenient location. Not only can we procure the products that you need but we can also machine them to your exact specifications in our onsite workshop.

With over 35 years of experience, our qualified sheetmetal and plastic workers will ensure a quality finished product.



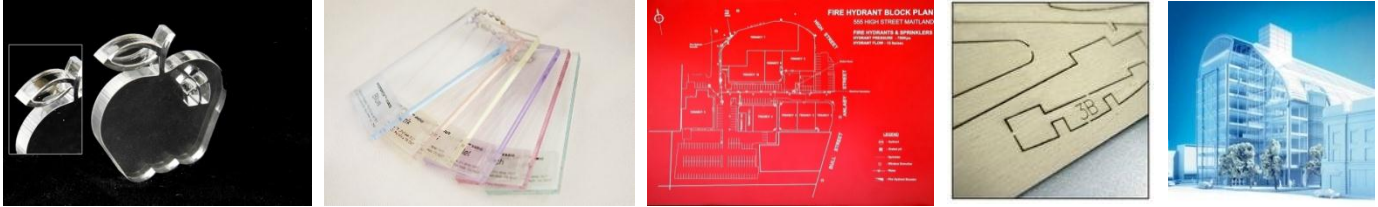


# Laser & Engraving Services



## • Plastics & Acrylics

We are able to laser engrave products ranging in thickness from 0.5mm to 15mm in one pass, ensuring a superior smooth finish. Acrylics cut straight from the machine are perfect for architecture displays, layouts, and model design cut outs.



## • Stainless Steel, Brass & Aluminium

Engraved stainless steel signage is the most durable product for use in harsh environments. Due to its sustainability these long lasting signs are most commonly used in heavy industrial and mining industries. We can also engrave colour logos onto these signs.



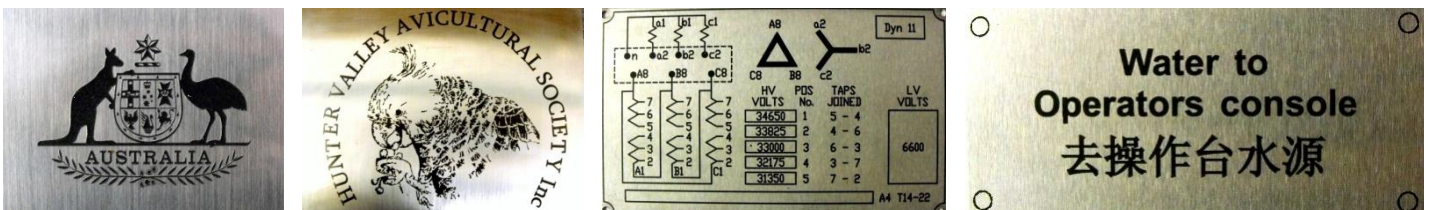
## • Traffolyte & Gravoply Labels

Traffolyte and Gravoply style engraved labels are suited for conditions where a durable long lasting label solution is required. We can add variable text onto each label as required. Holes or quality double sided tape can be applied to all labels. Name badges, desk & door signs, electrical labels, electrical switchboards & control panels, directory boards, trophies and award plaques, stencils & cut-out letters are some of the main uses for this type of label. We can produce any size & quantity you require with many colour varieties available.



## • Laser Etched Products

Laser etching is a great alternative way of producing quality, durable signage. The process involves using a special metal marking compound which can be used to mark a variety of bare materials. When the laser beam strikes the metal marking compound, it turns black in colour and permanently bonds to the metal surface. Due to the ease and speed of this process, prices are often greatly reduced, making it a cheaper alternative to an equivalent engraved plate.







Never be out of stock! We can organise vendor management of your stock, regularly re-ordering your shelf stock to the levels that you want. We can also organise site visits by qualified reps from tool and powertool companies.

We offer support services like onsite assessments on power tools and vendor management solutions. Our problem solving processes involve working with you to obtain the outcome that you and your business needs.

Our support services include:

- Vendor Stock Management
- Site Assessments
- Needs Assessments



## Vendor Stock Management

We offer vendor management solutions for your fasteners and consumables stock. This involves our staff visiting on a regular basis and re ordering your shelf stock to the levels you set.

Integrated supply achieved with Specialised Wholesale & Plastics' Vendor Stock Management reduces total procurement costs, maintains optimum inventory levels to reduce carrying costs, and assures a continuous supply of quality product to support your production line.

Your expertise is manufacturing your product. Specialised Wholesale & Plastics' expertise is managing inventory. The integration of our two strengths can result in achieving maximum productivity with the knowledge your production line is well supported and stock outages become a thing of the past.

## Site Assessment

Site visits by qualified experienced site representatives from tool and powertool companies to advise on your tool requirements.



**Specialised**  
*Wholesale & Plastics*



**Buildex**

**MACSIM<sup>®</sup>**



Socket Screws Australia

**Ramset<sup>™</sup>**



# FASTENERS





# Bolt Products



**HEX BOLT**

**HEX HEAD SETSCREW**

**CUPHEAD**

**COACHSCREW**

## BOLT AND HEAD TYPES AVAILABLE

MATERIAL	HEX HEAD BOLT	HEX HEAD SETSCREW	CUPHEAD	COACHSCREW
Stainless Steel 304	M6 – M24	M3 – M24	N/A	N/A
	¼" – ¾"	8-32" – ¾"	¼" – ½"	N/A
Stainless Steel 316	M6 – M36	M4 – M30	M6 – M12	M6 – M12
	¼" – 1"	3/16" – 1"	N/A	N/A
High Tensile ZP/Black	M6 – M42	M6 – M36	N/A	N/A
	¼" – 2"	¼" – 1 ½"	N/A	N/A
Mild Steel ZP/Gal	M6 – M36	M6 – M24	M6 – M20	M6 – M20
	¼" – ¾"	¼" – 5/8"	¼" – 3/8" ZP ONLY	N/A
Brass	M6 – M16	M6 – M16	N/A	N/A
	¼" – 5/8"	¼" – 5/8"	N/A	N/A
Nylon	M4 – M12	M4 – M12	N/A	N/A
Polypropylene	M4 – M12	M4 – M12	N/A	N/A

**METRIC COARSE/METRIC FINE/UNC/UNF/BSF**

**ENQUIRE FOR LENGTHS AVAILABLE**

# Hex Socket Products



## HEX SOCKET PRODUCTS

### SOCKET PRODUCTS AND HEAD TYPES AVAILABLE

MATERIAL	SOCKET HEAD	BUTTON SOCKET	CSK SOCKET	SHOULDER SOCKET	GRUB SCREW	PRESSURE PLUGS	ALLEN KEYS
Stainless Steel 304	M3 – M16	M3 – M12	M3 – M12	N/A	M2 – M16	N/A	N/A
	2-56 – ½"	6-32 – ½"	4-40 – ½"	N/A	4-40 – ½"	N/A	N/A
Stainless Steel 316	M2 – M24	M3 – M10	M3 – M20	N/A	M3 – M12	N/A	N/A
	¼" – ¾"	N/A	N/A	N/A	10-24 – ½"	1/8" – 1/2"	N/A
Black	M1.6 – M42	M3 – M16	M3 – M 30	M6 – M24	M1.6 – M24	N/A	M0.7 – M32
	0G – 2 ½"	0G – 5/8"	0G – 1 ¼"	¼" – 1 ¼"	0G – 1"	1/16" – 2"	0.28-1 1/34"








METRIC COARSE/METRIC FINE/UNC/UNF/BSF/NPTF/BSPT  
ENQUIRE FOR LENGTHS AVAILABLE



# Nuts & Washers



## Nuts


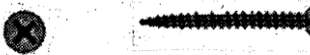






	NUT TYPE	DIAMETER	MATERIAL
	WELD NUT	M3 – M8	304 & ZP
	WING NUT	M3 – M20 10-24–3/4"	304/316/ZP 304/316/ZP
	DOME/ACORN NUT	M3 – M24 8-32 -5/8"	304/316/BRASS 304/316/BRASS
	NYLOC NUT	4-40- M48 4-40 – 2"	304/316/ZP 304/316/ZP
	GLENLOCH NUT	M4 – M20	304
	LOCK NUT	M3 – M30 1/4 – 1"	304/316/ZP 304/316/ZP
	HEX NUT	M1.6 –M48 2-56 –1 3/4"	304/316/ZP/BLK/BRASS 304/316/ZP/BLK/BRASS

## Washers

	WASHER TYPE	DIAMETERS	MATERIAL
	CRINKLE WASHER	M2 – M10	304
	CUP WASHER	6G – 14G	304
	BELLEVILLE WASHER	M6 – M20	304/BLK/ZP
	INTERNAL/EXTERNAL TOOTH WASHER	M2.5 – M20 1/8" – 5/8"	304 ZP
	SPRING WASHER	M2 – M36 ZP/BLACK GAL	304 & 316 M3 – M48 M10 – M36
	FLAT WASHER	M2 – M48 1/8 – 2" HIGH TENSILE	304/316/ZP/BLK/BRASS ZP

# Machine Screws



PRODUCT		DIAMETERS	GRADE
	PAN HEAD SELF TAPPING SCREW PHILLIPS	PHIL 4G – 14G	304
		SLOT 4G – 12G	316
	CSK HEAD SELF TAPPING SCREW PHILLIPS	PHIL 4G – 14G	304
		SLOT 4G – 10G	316
	CSK HEAD WOOD SCREW PHILLIPS / SLOT	PHIL 4G – 16G	304
		SLOT 4G – 16G	316
	PAN HEAD MACHINE SCREW PHILLIPS / SLOT	PHIL M2 – M8 2-56 – 5/16"	304 & 316
		SLOT M2.5 – M10	304 & 316
	CSK HEAD MACHINE SCREW PHILLIPS / SLOT	PHIL M2 – M10 2-56 – 5/16"	304 & 316
		SLOT M2.5 – M10 1/8" – 1/2"	304 & 316
	CHEESE HEAD MACHINE SCREW SLOT	SLOT M2 – M10	304 & 316
	ROUND HEAD MACHINE SCREW SLOT	SLOT 1/8" – 3/8"	304 & 316
	U-DRIVE SCREWS	00G – 10G	304

METRIC COARSE/UNC/UNF  
ENQUIRE FOR LENGTHS AVAILABLE



# Ramset Fasteners



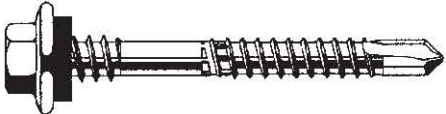
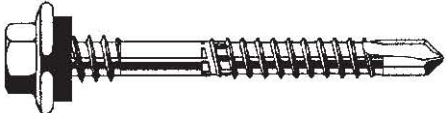
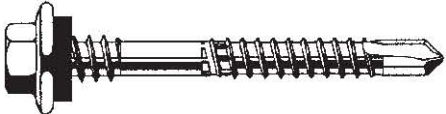
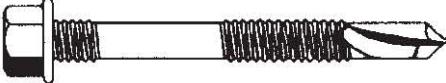



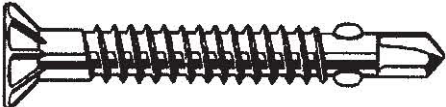




PRODUCT IMAGE	PRODUCT NAME	SIZES & FINISH	EXTRA INFO
	DYNABOLT TRUBOLT SUSPENSION ANCHORS	Available in M6 to M20. Available in zinc plated & 316 stainless steel.	
	FLATHEAD ANCHOR	Available in M6 & M8.	
	EYEBOLT ANCHOR		
	HOOKBOLT ANCHOR		
	FLUSH HEAD ANCHOR	Available in M6 to M12.	
	DYNASET DROP-IN ANCHORS		For fixing to concrete and solid brickwork. Dynaset is an internally threaded socket.
	BOLT / ROD ANCHOR	Available in M6 to M20. Available in zinc plated & 316 stainless.	For use with bolts or threaded rod of any length.

## ChemSet Capsules & Anchors

PRODUCT IMAGE	PRODUCT NAME	SIZES & FINISH	EXTRA INFO
	CHEMSET CAPSULES AND ANCHORS (SPIN)	Available in M8 to M24. Available in zinc plated & 316 stainless.	For fixing to concrete, solid brick and stone. Capsule is epoxy acrylate. Hammer capsule available.
	ULTRA-FIX CHEMICAL ANCHOR	For use with M8 to M24 chemical anchors.	For fixing to concrete, brick, hollow brick, blockwork and stone. Use with a standard caulking gun.
	CHEMSET REO 502EF		For heavy duty anchoring of rebar and threaded rod into concrete. Suitable for core drilled and oversized holes up to 2.25 x bar diameter.

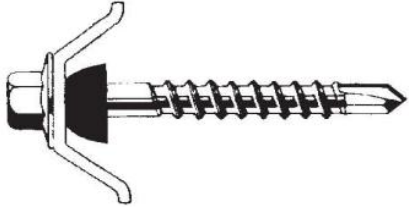
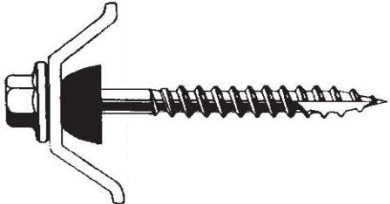
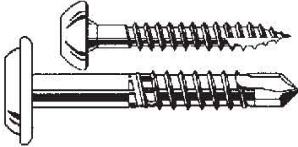
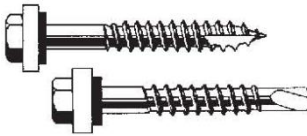
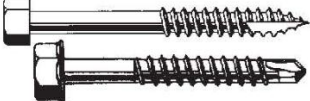
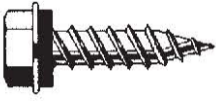
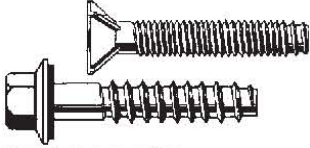



# Self Drilling Screws & ACCESSORIES



PRODUCT IMAGE	PRODUCT NAME	FOR FIXING:	EXTRA INFO
	HIGRIP TEKS SCREWS	Metal Roofing to Steel Purlins	Hex drive 12 gauge HIGRIP teks screws. Thickness of 1.6mm to 3.2mm in non-cyclonic areas
	HIGRIP BATTEN TEKS SCREWS	Metal Roofing to Steel Battens	Hex drive 12 gauge HIGRIP batten teks. Thickness of 0.6mm to 1.6mm in non-cyclonic areas
	HIGRIP INSULTEKS SCREWS	Metal Roofing with Insulation to Steel Purlins	Hex drive 12 gauge HIGRIP Insulteks screws. 1.6mm to 3.2mm in non-cyclonic areas
	SERIES 500 TEKS	to Metal, Metal Roofing to Steel Purlins	Hex drive 12 gauge Series 500 teks. Thickness up to 12.5mm
	EXTENDED POINT TEKS	to Metal, Architrave or Skirting Style Products	Countersunk head. Fixing through Plasterboard to Metal Frames up to 2.3mm
	SELF EMBEDDING TEKS	to Metal, Hard Board or Villaboard to Metal	Self embedding head teks used for fixing to metal thickness 1.2mm to 2.5mm (internal)
	COUNTERSUNK RIBBED HEAD	to Metal, soft compounds like Timber and Versilux Sheeting to Steel	Countersunk rib teks used for fixing to metal with steel thickness 1.2mm to 2.5mm
	COUNTERSUNK WINGTEKS	Timber, Cement Sheet & Composite Boards to Metal	Countersunk rib WINGTEKS for fixing to metal with steel thickness 1.2mm to 4.5mm
	SELF EMBEDDING HEAD WINGTEKS	Timber, Cement Sheet & Composite Boards to Metal	Self embedding head WINGTEKS for fixing plasterboard to steel thickness 0.8mm to 2.5mm
	BUGLE HEAD TEKS	to Metal	Bugle head teks for fixing plasterboard to steel thickness 0.8mm to 2.5mm
	HIGRIP TYPE 17	Roofing & Cladding to Timber	Hex drive 12 gauge Type 17 HIGRIP for fixing metal roof sheeting to timber battens in non-cyclonic areas
	BUGLE HEAD BATTEN SCREW	Timber to Timber	Internal hex drive bugle batten Type 17 used to fix timber to timber

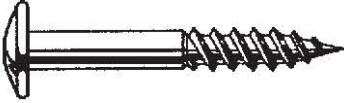

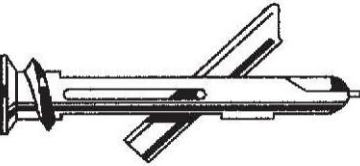

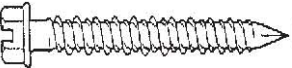

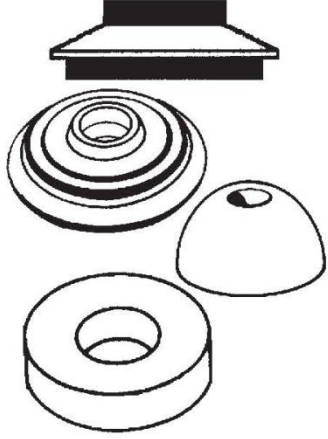
# Self Drilling Screws & ACCESSORIES (CONTINUED)



PRODUCT IMAGE	PRODUCT NAME	FOR FIXING:	EXTRA INFO
	CYCLONIC ASSEMBLY TEKS	Roofing in High-Wind & Cyclonic Areas to Steel Purlins	Hex drive 14 gauge cyclonic assembly teks for fixing to steel purlins with a thickness of 1.6mm to 3.2mm in cyclonic areas
	CYCLONIC ASSEMBLY TYPE 17	Roofing in High-Wind & Cyclonic Areas to Timber Battens	Hex drive 14 gauge Type 17 cyclonic assembly for fixing to timber battens in cyclonic areas
	TAMPER RESISTANT TEKS & TYPE 17	to Metal & Timber	Used to fix materials where security is of importance. A special driver bit is required to drive or remove
	ZAC TEKS & TYPE 17	Roofing to Timber & Steel in Severe Coastal Environments	Used to fix roofing materials in a severe coastal environment.
	STAINLESS STEEL TEKS & TYPE 17	Roofing to Timber & Steel in Severe Coastal Environments	Can be used for general applications in severe environments.
	HEX NEEDLE POINT STITCHING SCREW	Two Thicknesses of Sheet Metal Together	Hex drive needle point used to stitch two thicknesses of sheet metal together
	TAPTITE SCREW	Where High Strength or Excessive Vibration is Present	Cuts a thread after pre-drilling and can be removed and replaced many times without destroying the thread
	BUGLE NEEDLE POINT GYPSUM SCREW	Plasterboard to Timber & Very Thin Materials	Bugle head needle point plasterboard screw
	HILO THREAD "S" POINT GYPSUM SCREW	Plasterboard to Metal Studs	Higher holding power. For fixing to metal studs up to 0.8mm. Has a much higher holding power than standard plasterboard screws. Recommended in fire rated walls.
	COUNTERSUNK RIBBED CHIPBOARD	Chipboard Components Together or to Light Timber	Used to fasten chipboard components together in cabinet construction or light timber connection

# Self Drilling Screws & ACCESSORIES (CONTINUED)



PRODUCT IMAGE	PRODUCT NAME	FOR FIXING:	EXTRA INFO
	TRUSS HEAD CABINET FIXING SCREW	Multiple Layers of Chipboard Sheeting Together	Used to laminate multiple layers of chipboard sheeting together
	ALLOY WALLMATE	A Fixing or Hanging Point in Plasterboard	Diecast wallmate is used as a holding anchor in plasterboard to which you can insert a screw or hook
	TOGGLEMATE	A Heavy Duty Fixing or Hanging Point in Plasterboard	A heavy duty plasterboard anchor used where extra pullout strengths are required
	NYLON WALLMATE	Around Electrical Installations & Live Wires.	Non-Conductive. Ideal for use around electrical installations where metal anchors may touch live wires.
	TAPCON SCREW ANCHOR	Into Masonry Materials	Specialty hardened HILO thread form for a wide range of masonry materials
	SELF TAPPING SCREWS		Pan & Countersunk, Cross Recess, AB Type, Zinc Plated, Self Tapping Screws
	SEALING WASHERS		Used for Cladding, Ridge Assemblies, Fibreglass & Polycarbonate Sheeting & all other Sealing Applications. Refer to our technical staff for further information.



# Allthread / Threaded Rod

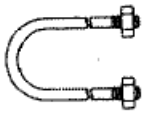

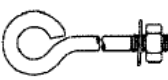
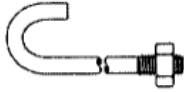
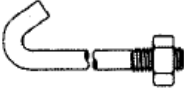



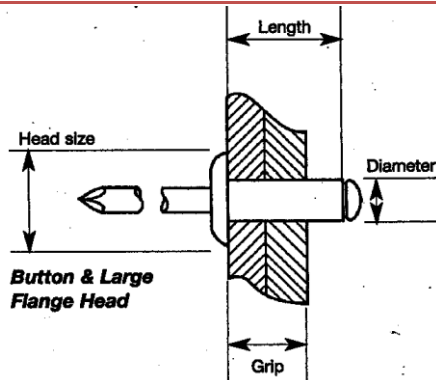
## ALLTHREAD

MATERIAL	METRIC SIZES AVAILABLE	IMPERIAL SIZES AVAILABLE
304 Stainless Steel	M3 – M24	3/16" – 1"
316 Stainless Steel	M3 – M36	3/16" – 1 1/2"
Mild Steel Gal/Zinc/Black	M3 – M64	1/8" – 1 1/2"
High Tensile Gal/Zinc/Black	M6 – M52	1/4" – 1 3/4"
Brass	M3 – M24	1/8" – 1"
Nylon	M6 – M20	
Polypropylene	M6 – M20	

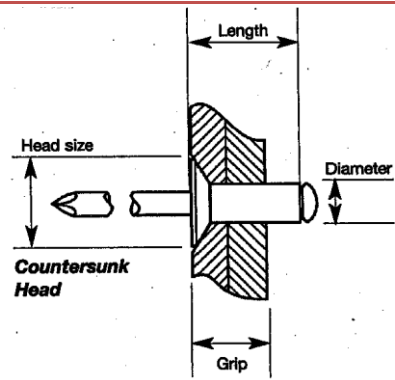
METRIC COARSE/METRIC FINE/UNC/UNF/BSF/ACME  
ENQUIRE FOR LENGTHS AVAILABLE

# U-Bolts

PRODUCT IMAGE	PRODUCT NAME	MATERIAL	SIZES
	U-BOLT	304 & 316 Stainless Steel, Zinc, Gal	
	HEAVY SERIES U-BOLT	304 & 316 Stainless Steel, Zinc, Gal	
	EYE-BOLT	304 & 316 Stainless Steel, Zinc, Gal	
	J-BOLT	Zinc, Gal	
	HOOK-BOLT	Zinc, Gal	
	SCREW HOOK	Zinc	



**BUTTON & LARGE FLANGE HEAD RIVET**



**COUNTERSUNK HEAD RIVET**

### RIVET DIAMETERS

CODE NO	DIA	DRILL
3	3/32" (2.4MM)	2.5MM
4	1/8" (3.2MM)	#30 OR 3.3MM
5	5/32" (4.0MM)	#20 OR 4.1MM
6	3/16" (4.8MM)	#11 OR 4.9MM
8	1/4" (6.4MM)	6.5MM

### RIVET HEAD TYPES & CODES

MATERIAL	BUTTON HEAD	CSK HEAD	LARGE FLANGE
Aluminium / Steel	AB	AC	ABL
Steel / Steel	SB	N/A	SBL
Stainless / Stainless	SSB	N/A	SSBL
Stainless / Steel	BB		
Bulbtites	RV		
Copper / Steel	CB		
Nickel Copper / Steel	MB		MC
Waterproof Aluminium / Steel	WP		
U-Fix Multigrip Aluminium / Steel	UB	UC	UL

**ENQUIRE FOR SIZING AVAILABLE**

**A WIDE RANGE OF NUTSERTS AVAILABLE IN ZP AND STAINLESS STEEL, THIN SHEET AND FLANGED**

# Security Screws



## SECURITY SCREW DRIVES



TORX



SNAKE EYES



ONE-WAYS



PHILLIPS PIN-HEADS



SOCKET PIN-HEADS



TRI-WING

Buildex Timber "Tri Lobular" Tamper Resistant Head also available.

## SECURITY SCREW HEADS

PRODUCT IMAGE

PRODUCT NAME



BUTTON HEAD MACHINE SCREWS



BUTTON HEAD SHEET METAL SCREWS



PAN HEAD SELF DRILLING SHEET METAL SCREWS



FLAT HEAD MACHINE SCREWS



FLAT HEAD SHEET METAL SCREWS

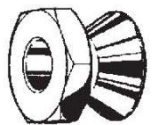
## OTHER SECURITY SCREW PRODUCTS

PRODUCT IMAGE

PRODUCT NAME

FINISH

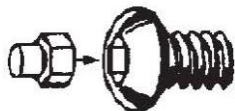
DESCRIPTION



SHEAR NUTS

Zinc Plated, Galvanised or  
Stainless Steel

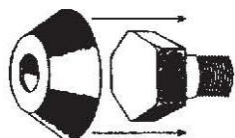
Outdoor, indoor & industrial.  
After shearing the conical nut  
remains in situ, incapable or  
removal with standard tools.



ENDEAVOUR PIN PLUG

Stainless Steel

Outdoor, indoor & industrial.  
Pin Plugs convert a standard  
hex socket screw into a "one  
way" fastener.



ARMOUR RINGS

Zinc Plated, Mild Steel or  
Stainless Steel

Tapped into position on  
either a hex head bolt or hex  
nut using conventional tools.  
Ideal for securing already  
fastened hex head bolts &  
hex head nuts.



# PLASTICS





# Acrylic – “Perspex” or “Plexiglas”



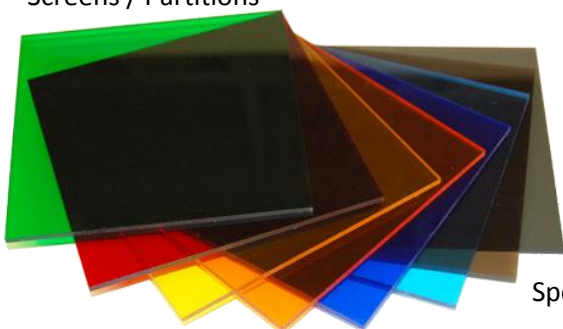
Clear Acrylic Sheet was first developed in the 1930's and is one of the most commonly used and versatile plastic sheeting materials in the world today. Acrylic Sheets are strong, lightweight, glass-like plastic with excellent outdoor weatherability and optical clarity. Seventeen times stronger than glass, at half the weight, clear acrylic (perspex) sheets are a safer option as there is less chance of breakage. Not only is acrylic sheet a sound, durable option, it is also 100% recyclable and suitable for food contact. Acrylic Sheets offer unrivalled versatility and is easy to fabricate, glue and bend without the need for specialised tooling.

## Key Features and Benefits:

- Outstanding outdoor weatherability and UV resistance
- Exceptionally long lifespan
- Optically clear – high light transmission
- Good acoustic properties
- Excellent surface hardness and durability
- Lightweight – less than half the weight of an equivalent piece of glass
- 17 times stronger than glass
- Environmentally friendly
- Suitable for food contact

## Applications:

- Point of Purchase / Retail / Exhibition displays
- Shop fitting / Shelving
- Framing / Model making
- Signage
- Architectural applications
- Glazing
- Parts for the medical industry
- Light fittings or roof lighting
- Screens / Partitions



## Material Specifications:

There are two basic types of Acrylic Sheets and the manufacturing process result in products with differences in properties and performance. **Cell Cast Acrylic Sheets** have exceptionally high quality with excellent technical properties and high strength. Easy to handle, machine and fabricate. **Extruded Acrylic Sheets** have improved vacuum formability and is ideal for applications where complex shapes are required.

### Acrylic Sheet

Type	Colour	Size (mm)	Thickness (mm)
<b>Cast</b>	Clear, Opal, Extensive range of colours, tints and surface finishes	3660 X 1905	1.5 to 50
		3050 X 2030	
		2440 X 1830	
		2440 X 1220	
		1830 X 1220	
<b>Extruded</b>	Clear, Opal, Extensive range of colours, tints and surface finishes	3660 X 1905	1.5 to 50
		3050 X 2030	
		2440 X 1830	
		2440 X 1220	
		1830 X 1220	
<b>Spool Material</b>	Clear, Opal, Extensive range of colours, tints and surface finishes	2540mm wide.	-
		Sold by the lineal metre	

### Acrylic Rod & Tube

	Length (mm)	Diameter (mm)
<b>Rod</b>	2000	4.5 to 100
<b>Tube</b>	2000	10 up to 400

Cut to size and component machining available for this product.

# Polycarbonate



Clear Polycarbonate Sheet, Polycarbonate Rod and Polycarbonate Tube is premium quality material typically used in the fabrication of guarding, safety glazing, sight glass and other high impact applications. The properties of Polycarbonate make it tough, easy to handle, easily fabricated and formed, and easy to machine into parts or panels.

Polycarbonate is unique for its impact resistance and its shock load resistance. It is light-weight and has 250x the impact strength of glass, it is literally sledgehammer proof. Polycarbonate is the best choice for glazing where there is potential for glass breakage. These applications include schools, public buildings, transportation centres and in areas where high traffic and vandalism is prevalent. Polycarbonate is self-extinguishing, so it is an excellent product for safety and security applications.

## Key Features and Benefits:

- Excellent impact resistance (250 times stronger than glass)
- Very good optical properties
- Moderate chemical resistance
- Self-extinguishing
- Excellent acoustic properties
- UV resistant
- Ability to be cold formed in thinner gauges

## Polycarbonate Applications

- Safety and vandal resistant glazing
- Machine guards
- Sight glasses
- Safety visors
- Transparent instrument components
- Electrical components
- Viewing windows for chemical processing

## Material Specifications:

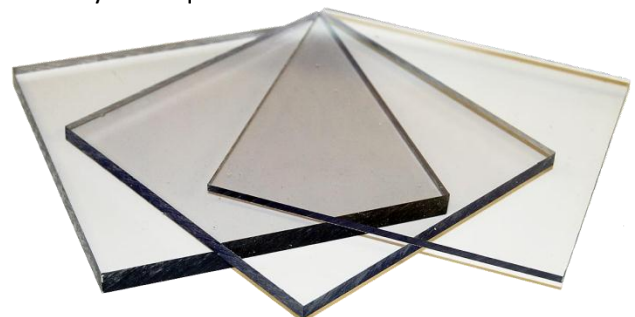
	Sheet		Rod	Tube
	Thickness (mm)	Dimensions (mm)	Outside Diameter (mm)	Diameter (mm)
Clear	3, 4.5, 6,	2440 X 1220		
	9.5, 12.7	2440 X 1830	5 – 125	5 – 125
	3, 4.5, 6	3000 X 2000		

Cut to size and component machining available for this product.

## Physical Properties:

Density:	g/cm <sup>3</sup>	1.2
Yield Stress	Mpa	60
Max Continuous Operating Temp:	°C	110
Max Short Term Operating Temp (3-4hrs):	°C	140
Tensile Strength:	Mpa	95
Dielectric Strength:	KV/mm	32
Surface Resistivity:	Ohms	>1x10 <sup>15</sup>
Water Absorption Until Saturation	%	0.36
Food Grade:	FDA	No

This plastic substrate comes in a variety of specifications that may modify its suitability to different applications. Please talk to our sales representatives about the best plastic for your requirements.



# UHMWPE – Natural

( ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE )



UHMWPE Natural Sheet and Rod is a general purpose UHMWPE, is suited to engineered applications where its unique properties of excellent impact strength, wear and abrasion resistance are required.

## Key Benefits:

- Impact strength - Virtually unbreakable
- Light weight - Easy to handle without special equipment
- Physiologically inert - Approved for food applications
- Electrical insulation - Good insulator
- Weatherproof - Doesn't absorb water
- Chemical Resistance - Resists corrosion
- Abrasion resistance - Rated better than carbon steel for sliding abrasion applications
- Low coefficient of friction - Does not require lubrication

## UHMWPE Natural Applications:

Chute and hopper linings (flow promotion), Bulk storage, Material handling, Mechanical bearing parts, Wear parts, Food machinery equipment.



## Material Specifications:

Sheet		Rod	Tube
Thickness (mm)	Dimensions (mm)	Outside Diameter (mm)	Outside Diameter (mm)
1 - 8	2000 X 1000		
8 - 100	3000 X 1000 3000 X 2000	10 - 250	-

Cut to Size & Component Machining available for this product.

## Physical Properties:

<b>Specific Gravity:</b>	g/cm <sup>3</sup>	0.93
<b>Max Continuous Operating Temp:</b>	°C	80
<b>Max Short Term Operating Temp (3-4hrs):</b>	°C	130
<b>Tensile Strength:</b>	Mpa	>20
<b>Impact Resistance Charpy Unnotched:</b>	KJ/m <sup>2</sup>	No Break
<b>Impact Resistance Charpy Notched:</b>	KJ/m <sup>2</sup>	>100
<b>Hardness:</b>	Rockwell M	61
<b>Co-efficient of thermal expansion:</b>	m/(m.k) x 10 <sup>-6</sup>	200
<b>Dielectric Strength:</b>	KV/mm	45
<b>Surface Resistivity:</b>	Ohms	>1x10 <sup>14</sup>
<b>Flammability UL94:</b>		HB
<b>Food Grade:</b>	FDA	Yes

This plastic substrate comes in a variety of specifications that may modify its suitability to different applications. Please talk to our sales representatives about the best plastic for your requirements.

# UHMWPE – Black Anti Static

( ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE )



UHMWPE Black AS is an anti static material which has a reduced electrostatic surface that does not attract dust. It is specifically formulated to suit reduced static applications in handling of bulk materials and other high speed sliding applications including lining of storage systems and change parts for the various industries.

## Key Benefits:

- Anti static action
- Reduction in dust accumulation
- High wear resistance
- High impact resistance
- Light weight - Easy to handle without special equipment
- Weatherproof - Doesn't absorb water
- Chemical resistance - Resists corrosive chemicals (Sulphuric Acid, Caustic Soda)
- Abrasion resistance - Rated better than carbon steel for sliding abrasion applications
- Low coefficient of friction - Does not require lubrication

## UHMWPE Black AS Applications:

Belt guides, sliding and conveying elements, Bulk storage wear liners, grain industry, coal handling.



## Material Specifications:

Sheet		Rod	Tube
Thickness (mm)	Dimensions (mm)	Outside Diameter (mm)	Outside Diameter (mm)
1 - 8	2000 X 1000		
8 - 100	3000 X 1000 3000 X 2000	10 - 250	-

Cut to Size & Component Machining available for this product.

## Physical Properties:

<b>Specific Gravity:</b>	g/cm <sup>3</sup>	0.95
<b>Max Continuous Operating Temp:</b>	°C	80
<b>Max Short Term Operating Temp (3-4hrs):</b>	°C	130
<b>Tensile Strength:</b>	Mpa	22
<b>Hardness:</b>	Rockwell M	63
<b>Co-efficient of thermal expansion:</b>	m/(m.k) x 10 <sup>-6</sup>	200
<b>Surface Resistivity:</b>	Ohms	<10 <sup>6</sup>
<b>Food Grade:</b>	FDA	No

This plastic substrate comes in a variety of specifications that may modify its suitability to different applications. Please talk to our sales representatives about the best plastic for your requirements.



# HDPE – Natural / Black / Yellow

( HIGH DENSITY POLYETHYLENE )



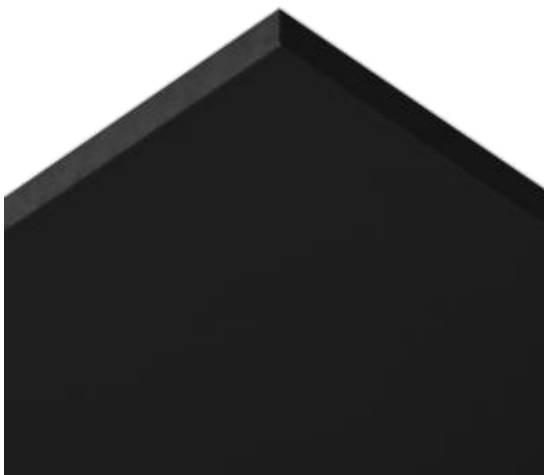
High Density Polyethylene sheets and weld rod are manufactured in accordance with PE80 guidelines. HDPE sheets and are a very rigid material available in large sheets sizes and varying colours such as black, natural and safety yellow. HDPE is ideal for general use in plant engineering, tank construction and waste water industry, where all round chemical resistance and weatherability are required. HDPE rod is available in a vast arrange of diameters in natural and black.

## Key Features and Benefits:

- Weldable / Bendable
- Suitable for fabrication
- UV Resistant (Black only)
- Physiologically inert - Approved for food applications (Natural only)
- Electrical insulation - Good insulator
- Weatherproof- Doesn't absorb water
- Chemical resistance - Resists corrosive chemicals (e.g. Sulphuric Acid, Caustic Soda)

## HDPE Applications:

Plastic Fabrication: Tanks, Storage Vessels, Waste Water Chemical Process Industry. Food Industry: Cutting Boards, Butchers Preparation Tables.



## Material Specifications:

	Sheet		Rod
	Thickness (mm)	Dimensions (mm)	Outside Diameter (mm)
Natural	1 - 30	2000 X 1500 3000 X 1500	-
	1.5	2000 X 1000	
Black	1.0 - 100	2000 X 1500 3000 X 1500 4000 X 2000	25 - 300
		1.5	
	Yellow	6 - 10	3000 X 1500

Cut to Size & Component Machining available for this product.

## Physical Properties:

Specific Gravity:	g/cm <sup>3</sup>	0.955
Max Continuous Operating Temp:	°C	80
Max Short Term Operating Temp (3-4hrs):	°C	100
Tensile Strength:	Mpa	23
Hardness:	Rockwell M	63
Dielectric Strength:	KV/mm	>30
Surface Resistivity:	Ohms	>10 <sup>14</sup>
Food Grade:	FDA	Yes
Thermal Elongation:	mm/(mK)	>50
Impact Resistance Charpy Notched:	KJ/m <sup>2</sup>	12
Coefficient of linear expansion:	K x 10 <sup>-1</sup>	200

This plastic substrate comes in a variety of specifications that may modify its suitability to different applications. Please talk to our sales representatives about the best plastic for your requirements.

# PETP – Polyester



The specific properties of virgin crystalline PETP rod & sheet make it specially suited for the manufacture of mechanical precision parts which have to sustain high loads and/or are subject to wear.

## Key Features and Benefits:

- High mechanical strength, stiffness and hardness
- Very good creep resistance
- Excellent wear resistance  
Comparable or even better than Nylon grades
- Very good dimensional stability  
Better than polyacetal
- Excellent stain resistance
- Better resistance to acids than nylon and polyacetal
- Good electrical insulating properties
- Physiologically inert  
Suitable for food contact
- Good resistance to high energy radiation - Gamma and X-rays

## Polyester Applications:

Precision gears and bearings, Thrust washers, Pump components, Slideways, Components for mechanisms.



## Material Specifications:

Sheet		Rod	Tube
Thickness (mm)	Dimensions (mm)	Outside Diameter (mm)	Outside Diameter (mm)
8 - 50	1000 X 610	12 - 200	20 -200
	2000 X 1000		
	3000 X 610		

Cut to Size & Component Machining available for this product.

## Physical Properties:

<b>Specific Gravity:</b>	g/cm <sup>3</sup>	1.39
<b>Max Continuous Operating Temp:</b>	°C	115
<b>Max Short Term Operating Temp (3-4hrs):</b>	°C	160
<b>Tensile Strength:</b>	Mpa	90
<b>Impact Resistance Charpy Unnotched:</b>	KJ/m <sup>2</sup>	50
<b>Impact Resistance Charpy Notched:</b>	KJ/m <sup>2</sup>	2
<b>Hardness:</b>	Rockwell M	86
<b>Co-efficient of thermal expansion:</b>	m/(m.k) x 10 <sup>-6</sup>	60
<b>Dielectric Strength:</b>	KV/mm	22
<b>Surface Resistivity:</b>	Ohms	>10 <sup>13</sup>
<b>Flammability Oxygen Index:</b>	%	25
<b>Flammability UL94:</b>		HB
<b>Food Grade:</b>	FDA	Yes

This plastic substrate comes in a variety of specifications that may modify its suitability to different applications. Please talk to our sales representatives about the best plastic for your requirements.

# Nylon – Cast



The characteristics of this cast nylon production method (direct polymerisation in the mould) offers the possibility of manufacturing large-sized stock shapes as well as custom castings which require only minimal machining.

## Key Features and Benefits:

- High mechanical strength
- Good fatigue resistance
- High mechanical damping ability
- Good sliding properties
- Excellent wear resistance

## Cast Nylon Plastics Applications:

Cast Nylon is used for a wide range of industrial components both for Original Equipment Manufacture and maintenance. Some examples: sleeve and slide bearings, wear pads, support and guide wheels, conveyor rollers, tension rollers, tension rollers, sleeves for wheels and rollers, pulleys and pulley linings, cams, buffer block, hammer heads, scrapers, gear wheels, sprockets, seal-rings, feed screws, starwheels, cutting and chopping boards, insulators, etc.



## Material Specifications:

Sheet		Rod	Tube
Thickness (mm)	Dimensions (mm)	Outside Diameter (mm)	Outside Diameter (mm)
8 - 50	1000 X 610 3000 X 610	8 - 120	60 - 600

Cut to Size & Component Machining available for this product.

## Physical Properties:

<b>Specific Gravity:</b>	g/cm <sup>3</sup>	1.15
<b>Max Continuous Operating Temp:</b>	°C	105
<b>Max Short Term Operating Temp (3-4hrs):</b>	°C	170
<b>Tensile Strength:</b>	Mpa	85
<b>Impact Resistance Charpy Unnotched:</b>	KJ/m <sup>2</sup>	No Break
<b>Impact Resistance Charpy Notched:</b>	KJ/m <sup>2</sup>	3.5
<b>Hardness:</b>	Rockwell M	88
<b>Co-efficient of thermal expansion:</b>	m/(m.k) x 10 <sup>-6</sup>	80
<b>Dielectric Strength:</b>	KV/mm	25
<b>Surface Resistivity:</b>	Ohms	1x10 <sup>13</sup>
<b>Flammability Oxygen Index</b>	%	25
<b>Flammability UL94:</b>		HB
<b>Food Grade:</b>	FDA	Yes natural only

This plastic substrate comes in a variety of specifications that may modify its suitability to different applications. Please talk to our sales representatives about the best plastic for your requirements.

# Nylon – Extruded



This material offers an optimal combination of mechanical strength, stiffness, toughness, mechanical damping properties and wear resistance. These properties, together with a favourable electrical insulating ability and a good chemical resistance make extruded nylon a "general purpose" grade for mechanical construction and maintenance.

## Key Features and Benefits:

- High mechanical strength
- Good fatigue resistance
- High mechanical damping ability
- Good sliding properties
- Excellent wear resistance

## Extruded Nylon Plastics Applications:

Extruded nylon is used for a wide range of industrial components both for Original Equipment Manufacture and maintenance. Some examples: sleeve and slide bearings, wear pads, support and guide wheels, conveyor rollers, tension rollers, tension rollers, sleeves for wheels and rollers, pulleys and pulley linings, cams, buffer block, hammer heads, scrapers, gear wheels, sprockets, seal-rings, feed screws, starwheels, cutting and chopping boards, insulators, etc.



## Material Specifications:

Sheet		Rod	Tube	Tape
Thickness (mm)	Dimensions (mm)	Outside Diameter (mm)	Outside Diameter (mm)	Thickness (mm)
1 - 6	2000 X 1000	10 - 150	20 - 200	0.5 - 0.8

Cut to Size & Component Machining available for this product.

## Physical Properties:

<b>Specific Gravity:</b>	g/cm <sup>3</sup>	1.14
<b>Max Continuous Operating Temp:</b>	°C	85
<b>Max Short Term Operating Temp (3-4hrs):</b>	°C	160
<b>Tensile Strength:</b>	Mpa	76
<b>Impact Resistance Charpy Unnotched:</b>	KJ/m <sup>2</sup>	No Break
<b>Impact Resistance Charpy Notched:</b>	KJ/m <sup>2</sup>	5.5
<b>Hardness:</b>	Rockwell M	85
<b>Co-efficient of thermal expansion:</b>	m/(m.k) x 10 <sup>-6</sup>	90
<b>Dielectric Strength:</b>	KV/mm	25
<b>Surface Resistivity:</b>	Ohms	>10 <sup>12</sup>
<b>Flammability Oxygen Index:</b>	%	25
<b>Flammability UL94:</b>		HB
<b>Food Grade:</b>	FDA	Yes natural only

This plastic substrate comes in a variety of specifications that may modify its suitability to different applications. Please talk to our sales representatives about the best plastic for your requirements.



# Nylon – Oil Filled



Oil filled nylon rod and sheet is an internally lubricated cast nylon which is self-lubricating in the real meaning of the word. Nylon rods and sheets, specifically developed for unlubricated moving parts applications, yields a considerable enlargement of the application possibilities of nylons. This is because of its reduced coefficient of friction (-50%) and improved wear resistance (up to 10X).

## Key Features and Benefits:

- High mechanical strength
- Good fatigue resistance
- High mechanical damping ability
- Good sliding properties
- Excellent wear resistance

## Oil Filled Nylon Plastics Applications:

Ertalon nylon plastic is used for a wide range of industrial components both for Original Equipment Manufacture and maintenance. Some examples are:

- Nylon sleeve bearings
- Nylon slide bearings
- Nylon wear pads
- Nylon support wheels
- Nylon guide wheels
- Nylon conveyor rollers
- Nylon tension rollers
- Nylon wheel sleeves
- Nylon rollers sleeves
- Nylon pulleys
- Nylon cams
- Nylon buffer block
- Nylon hammer heads
- Nylon scrapers
- Nylon gear wheels
- Nylon sprockets
- Nylon seal-rings
- Nylon feed screws
- Nylon starwheels
- Nylon cutting boards
- Nylon chopping boards
- Nylon insulators



## Material Specifications:

Sheet		Rod	Tube
Thickness (mm)	Dimensions (mm)	Outside Diameter (mm)	Outside Diameter (mm)
8 - 100	1220 X 610 2440 X 1220	50 - 300	50 - 500

Cut to Size & Component Machining available for this product.

## Physical Properties:

<b>Specific Gravity:</b>	g/cm <sup>3</sup>	1.14
<b>Max Continuous Operating Temp:</b>	°C	105
<b>Max Short Term Operating Temp (3-4hrs):</b>	°C	165
<b>Tensile Strength:</b>	Mpa	70
<b>Impact Resistance Charpy Unnotched:</b>	KJ/m <sup>2</sup>	50
<b>Impact Resistance Charpy Notched:</b>	KJ/m <sup>2</sup>	4
<b>Hardness:</b>	Rockwell M	82
<b>Co-efficient of thermal expansion:</b>	m/(m.k) x 10 <sup>-6</sup>	80
<b>Dielectric Strength:</b>	KV/mm	22
<b>Surface Resistivity:</b>	Ohms	>10 <sup>12</sup>
<b>Flammability UL94:</b>		HB
<b>Food Grade:</b>	FDA	NO

This plastic substrate comes in a variety of specifications that may modify its suitability to different applications. Please talk to our sales representatives about the best plastic for your requirements.



Acetal rod, acetal sheet and acetal tube is a semi-crystalline material with high strength, a low coefficient of friction and good wear properties especially in wet environments (resistance to hydrolysis).

Acetal is general purpose, porosity-free copolymer. In-line photometric quality procedures assures dye penetrant QC testing to ensure all stock shapes are manufactured porosity-free, making it the preferred acetal for food contact and medical applications.

## Key Features and Benefits:

- Excellent machinability
- Good creep resistance
- Very low stick-slip
- Low moisture absorption
- High hardness and stiffness
- Very high mechanical properties
- Excellent dielectrical properties
- Low co-efficient of friction

## Acetal Natural/Black Applications:

Precision gears, Bearings with close tolerance, Electrical engineering insulations, Snapfit assemblies, Parts which operate in water up to 90 C.



## Material Specifications:

	Sheet		Rod	Tape
	Thickness (mm)	Dimensions (mm)	Outside Diameter (mm)	Dimensions (M)
Natural	1 - 4	2000 X 1000 1000 X 610	5 - 250	05 - 70
	5 - 50	2000 X 1000 3000 X 610		0.8 - 45
Black	10 - 50	1000 X 610	6 - 250	
		3000 X 610		
		2000 X 1000		

Cut to size and component machining available for this product.

## Physical Properties:

Specific Gravity:	g/cm <sup>3</sup>	1.41
Max Continuous Operating Temp:	°C	115
Max Short Term Operating Temp (3-4hrs):	°C	140
Tensile Strength:	Mpa	68
Impact Resistance Charpy Unnotched:	KJ/m <sup>2</sup>	>150
Hardness:	Rockwell M	84
Co-efficient of thermal expansion:	m/(m.k) x 10 <sup>-6</sup>	110
Dielectric Strength:	KV/mm	20
Surface Resistivity:	Ohms	>1x10 <sup>13</sup>
Flammability Oxygen Index:	%	15
Food Grade:	FDA	Yes

# PTFE – “Teflon”

( POLYTETRAFLUOROETHYLENE )



Virgin PTFE contains no fillers and has almost universal chemical resistance. It has excellent insulating capabilities and high dielectric properties. Its high temperature stability allows for continuous use at 260°C.

PTFE has excellent low friction, non-stick and release properties.

## Key Features and Benefits:

- Chemically Inert
- Excellent Electrical Properties
- Indefinite Shelf Life
- Low Friction
- Non-Flamability

## PTFE Applications:

- O-Rings
- Envelope gaskets
- Seals
- Bellows
- Linings (chemical)
- Valve seats

This plastic substrate comes in a variety of specifications that will modify its properties and chemical resistance. Please talk to our sales representatives about the best plastic for your requirements.



## Material Specifications:

Sheet		Rod	Tube
Thickness (mm)	Dimensions (mm)	Outside Diameter (mm)	Outside Diameter (mm)
30 - 50	600 X 600	10 - 150	AWG's 0 - 30 36 - 625
	610 X 610		
	1200 X 600		
	1220 X 1220		

Cut to Size & Component Machining available for this product.

## Physical Properties:

<b>Specific Gravity:</b>	g/cm <sup>3</sup>	2.18
<b>Max Continuous Operating Temp:</b>	°C	260
<b>Max Short Term Operating Temp (3-4hrs):</b>	°C	310
<b>Tensile Strength:</b>	Mpa	28
<b>Hardness:</b>	Rockwell M	65
<b>Co-efficient of thermal expansion:</b>	m/(m.k) x 10 <sup>-6</sup>	125
<b>Dielectric Strength:</b>	KV/mm	59
<b>Surface Resistivity:</b>	Ohms	>1x10 <sup>7</sup>
<b>Flammability UL94:</b>		530
<b>Food Grade:</b>	FDA	Yes

# PVC – Polyvinyl Chloride



PVC sheets are extruded sheets made from rigid PVC plastic and contain no plasticizers or fillers. PVC's relatively low cost, biological and chemical resistance and workability have resulted in it being used for a wide variety of applications. It is used for sewerage pipes and other pipe applications where cost or vulnerability to corrosion limit the use of metal. With the addition of impact modifiers and stabilizers, it has become a popular material for window and door frames.

## Key Benefits:

- High rigidity and strength in comparison with other thermoplastics
- Very good electrical insulation properties
- Self-extinguishing when flame is withdrawn
- Easily processable
- Weldable - suitable for fabrication

## PVC Applications:

- Fabrication fittings
- Fume extraction
- Acid tanks, Ducting
- Templates
- Food machinery equipment



## Material Specifications:

Sheet		Rod	Tube
Thickness (mm)	Dimensions (mm)	Outside Diameter (mm)	Outside Diameter (mm)
3 – 50	2000 X 1000 2440 X 1220	6 – 200	-

Cut to Size & Component Machining available for this product.

## Signage Options:

Type	Colour	Dimensions (mm)	Thickness (mm)
Rigid Industrial	Grey, White, Clear	2440 X 1220	1.5 – 25
Foam	Extensive colour range	2440 X 1220	1.5 – 12
Hardcoat Foam	White, Black	2440 X 1220	10 – 32

## Physical Properties:

<b>Specific Gravity:</b>	g/cm <sup>3</sup>	1.47
<b>Max Continuous Operating Temp:</b>	°C	60
<b>Tensile Strength:</b>	Mpa	>55
<b>Hardness:</b>	Rockwell M	85
<b>Co-efficient of thermal expansion:</b>	m/(m.k) x 10 <sup>-6</sup>	60
<b>Dielectric Strength:</b>	KV/mm	>12
<b>Surface Resistivity:</b>	Ohms	>1x10 <sup>15</sup>
<b>Food Grade:</b>	FDA	No

This plastic substrate comes in a variety of specifications that may modify its suitability to different applications. Please talk to our sales representatives about the best plastic for your requirements.



# Industrial Laminates



## Common Trade Names:

- Novasteen
- Tufnol
- Bakelite
- Ferobestos
- Ferroform



### PRODUCT APPLICATIONS BY INDUSTRY

Grade	Applications
<b>GENERAL ENGINEERING</b>	
F1 and MF1	Pump piston rings, Valves, Cams, Compressor vanes, Pump vanes, Conveyor wheels, Nozzles, Hydraulic rings, Piston rings
F3	Gears, Bearings, Pinion couplings, Coupling discs, Slipper pads, Neck rings, Bucket rings, Buckets, Rollers, Insulating pads, Spacers, Bushes, Pulleys, Fence guides, Guide shoes, Wear strips, Pump seals, Liners, Jigs, Saw guides
Permal <sup>®</sup>	Nuts, Bolts, Washers, Anti-static non slip flooring, Jigs, Dies, Metal spinning, Press tools, Coal shakers
<b>ELECTRICAL</b>	
Permal <sup>®</sup> and GPO3	Busbar supports, Rotor and stator packing blocks, Winding clamps, Stator winding and overhang supports, Slip ring barriers, Rotor and stator slot wedges, Insulating brush gear housings, Pole collars, Clamping studs and nuts, Moving contact levers, Links and tie bars, Flash pots, Interphase barriers, S/w bases
<b>CHEMICAL AND GAS</b>	
F1 and MF1	Pipe connectors, Pump vanes, Pipe flanges
F3 and MG5	Anti-spark tank covers, Pipeline insulation pads, Pipe connectors, Gaskets and washers, Screens and grids, Pipeflanges
Permal <sup>®</sup> and F3	Cryogenics—Pipe supports, etc
PX1	Splashboards, Benchtops, Masking plates
<b>Steel Mills and Metal Finishing</b>	
F3	Rolling mill bearings, Thrust rings, Slideways, Run-out table bearings, Anti scratch rollers, Plating barrels, Liners, Pump bearings, Bushings, Wear strips
Permal <sup>®</sup>	Spinning chucks, Press tools
<b>MARINE</b>	
F3	Engine mountings, Insulation pads, Bushes and spacers, Stern tube bearings, Cleats, Winches, Sail battens, Pulley wheels, Staves, Rudder post bearings, Water pumps, Stern tubes, Rudder bushes, Stave bearings, Piston rings, Valve seats
Permal <sup>®</sup>	Non-slip, anti-static flooring, Cabin floor treads and plates

### PRODUCT APPLICATIONS BY INDUSTRY

Grade	Applications
<b>Mining</b>	
F1, F3	Compressor vanes, Truck wheels, Conveyor rollers, Fan blades, Piston rings for hydraulic pumps, Bearings, Bushes, Gears, Wear strips, Anti-static pads, Crusher bearings, Heavy-y bushes (earth moving equipment, etc)
Switchpanel	Battery separators, Underground switchboards
<b>RAILWAYS</b>	
F1, F3 and F3B	Air pump vanes, Compressor vanes, Insulation pads, Bushes, Spacers, Liners, Bearings, Wear strips, Dust guards, Bogie wear dates, Insulated-ed rail joints, End posts, Axle box covers, Bogie wear plates
Permal <sup>®</sup>	Non-slip, anti-static flooring, Rail fish plates
<b>AGRICULTURE</b>	
F1, F3 and F3B	Pump vanes, Vacuum pumps, Vanes, Nozzles for pest sprayers, Kicker shaft bearings, Handles for electric stunners, Bearing bushes for clippers, Bearings for mixers, Gears for farm machinery, Hammer mill bearings, Screw conveyor bearings, Pump bushes, etc
<b>FOOD AND CONFECTIONERY</b>	
F3	Syrup mixer bearings, Scale bearings, Food slicer bearings, Pasturising plant bearings, End boards on milk powdering plant, Spacers on bread slicers, Links on dishwashers, Gears for food trade machinery, Rollers for conveyors, Paste packing dollies, Mixing paddles, Scraper blades, Wear plates, Guides, Food taint resistant components
<b>FILM AND PHOTOGRAPHICS</b>	
F1	Projector gears, Camera gears, Copying machine rollers
<b>PAPER AND PRINTING</b>	
F1, F3 and F3B	Silent gears, Rollers, Bearings, Ink rollers, Greasing rollers, Wedges, Suction box tops, Carton formers, Knife box checks, Doctor blades
<b>TEXTILES</b>	
F3 and F3B	Gears for looms, Picker brushes, Bearings for spinning frame spindles, Thread tension wheels, Creel spindle bushes, Thread guide, Quills and bobbins, Rollers, Blocking reels, Bobbin and spindle wheels, Spinning pot lids, Needle eye bushes, Racking, Tape guide pulleys, Sieves
Permal <sup>®</sup>	Picking sticks, Race boards
<b>OTHER INDUSTRIAL APPLICATIONS</b>	
<i>Industrial Laminates are used in many other industries including electronics, telecommunications, computers, etc.</i>	



Uniboard ECO is an extruded flat sheet panel manufactured from recycled plastic in high density Polyethylene (HDPE) and Polypropylene (PP). The manufacturing process produces flat sheet panels that offer a number of distinct benefits over comparable flat sheet products such as plywood, marine ply, mdf and other traditional construction and shopfitting materials.

## Key Benefits:

- Environmentally friendly
- Will not swell, rot or delaminate
- Rustproof
- Mould and bacterial growth resistant
- Easy cleaning non-stick surface
- Low maintenance
- UV resistant (for outdoor use)

## Uniboard Applications:

- Sound insulators
- Animal enclosures
- Construction of irrigation channels
- Floats and animal trailer linings
- Signage and display boards
- Concrete casting release boards
- Wall linings
- Marine applications
- Anti-graffiti walls
- Greens and garden edging
- Storage bins

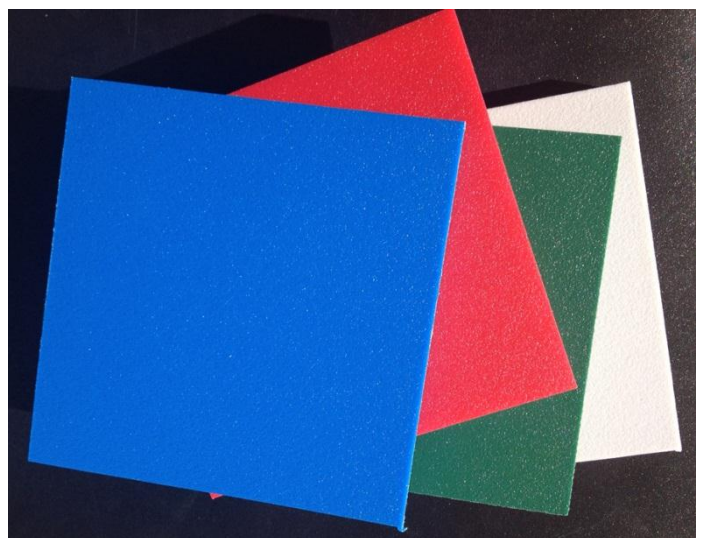
## Material Specifications:

Sheet		Rod	Tube
Thickness (mm)	Dimensions (mm)	Outside Diameter (mm)	Outside Diameter (mm)
10, 12, 15, 19	2440 X 1220	-	-

Cut to Size & Component Machining available for this product.

## Physical Properties:

<b>Specific Gravity:</b>	g/cm <sup>3</sup>	0.70
<b>Max Continuous Operating Temp:</b>	°C	80
<b>Max Short Term Operating Temp (3-4hrs):</b>	°C	100
<b>Tensile Strength:</b>	Mpa	18
<b>Hardness:</b>	Rockwell M	65
<b>Co-efficient of thermal expansion:</b>	m/(m.k) x 10 <sup>-6</sup>	200
<b>Surface Resistivity:</b>	Ohms	>1x10 <sup>15</sup>
<b>Food Grade:</b>	FDA	No



# Aluminium Composite Panel



Aluminium composite sheet material consists of low-density polyethylene core sandwiched in between aluminium outer layers. Aluminium composite material is widely used in the signage industries due to its versatility and the ease of use. It is becoming the material of choice; its modern appearance and longevity, combined with a vast colour range make it a perfect material for numerous applications.

## Key Benefits:

- Rigid and Lightweight
- Weather Resistant
- Superior Finish
- Workability
- Recyclable
- Excellent Durability
- Fire Resistant
- Sound Absorption
- Tested to Australian standards

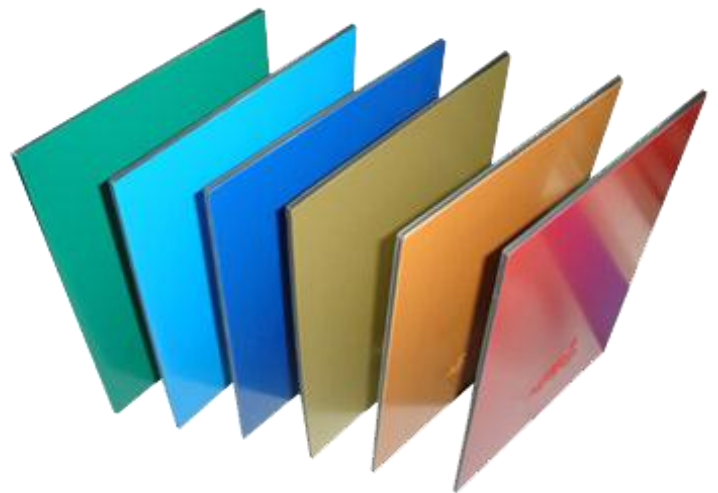
## ACP Applications:

- Signmaking
- Digital Printing
- Point of Sale Displays
- Light Boxes
- Exhibits
- Shopfitting
- Transport
- Facades

## Material Specifications:

Sheet		
Thickness (mm)	Dimensions (mm)	Colour
3	1830 X 1220	Black & White available in all sizes. Colours available only in certain panel sizes.
	2440 X 1220	
	3050 X 1220	
	3050 X 1500	
	3660 X 1220	
	4000 X 1500	
	4000 X 2000	

Cut to Size available for this product.





# PTFE Coated Fabrics & CONVEYER BELTS



Fabrics are available in either woven glass or kevlar.  
Coatings are available in either PTFE or silicone.

## Key Benefits:

- Non stick
- Non toxic
- Low friction
- Chemical resistance
- High dielectric properties
- Dimensional stability
- Flexible
- High tensile strength
- Unaffected by extreme temperature
- Chemical resistance

## PTFE Coated Fabric Applications:

- Release covers for heat sealing
- Roller release covers
- Low friction liners
- Baking tray liners
- Mould release liners
- Splash curtains



## Material Specifications:

Sheet		Rod	Tube
Thickness (mm)	Dimensions (mm)	Outside Diameter (mm)	Outside Diameter (mm)
1 - 8	2000 X 1000		
8 - 100	3000 X 1000 3000 X 2000	10 - 250	-

Cut to Size & Component Machining available for this product.

## Physical Properties:

<b>Specific Gravity:</b>	g/cm <sup>3</sup>	0.93
<b>Max Continuous Operating Temp:</b>	°C	80
<b>Max Short Term Operating Temp (3-4hrs):</b>	°C	130
<b>Tensile Strength:</b>	Mpa	>20
<b>Impact Resistance Charpy Unnotched:</b>	KJ/m <sup>2</sup>	No Break
<b>Impact Resistance Charpy Notched:</b>	KJ/m <sup>2</sup>	>100
<b>Hardness:</b>	Rockwell M	61
<b>Co-efficient of thermal expansion:</b>	m/(m.k) x 10 <sup>-6</sup>	200
<b>Dielectric Strength:</b>	KV/mm	45
<b>Surface Resistivity:</b>	Ohms	>1x10 <sup>14</sup>
<b>Flammability UL94:</b>		HB
<b>Food Grade:</b>	FDA	Yes

This plastic substrate comes in a variety of specifications that may modify its suitability to different applications. Please talk to our sales representatives about the best plastic for your requirements.





## Sleepers & Retaining Walls

Cracking concrete, rotting wood, rust, sharp edges and toxic timber are all eliminated by choosing the recycled plastic **Sleeper & Retaining Wall** profiles.

Easy to install, these profiles are ideal for public open space, institutions and commercial facilities as well as back yards. Suitable for **Retaining Walls**, **Sleeper** style paving, or any where else you need a **Sleeper**.

Benefiting customers with its non-toxic CCA and Creosote free surface, **Sleeper & Retaining Wall** Profiles a superior option to chemically treated timber.



Maintenance free and highly robust single piece construction mean a long product life and peace of mind for customer and specifier. **Sleeper & Retaining Wall** Profiles have an impeccable safety and security record which is derived from its material proven to eliminate risk presented by splinters and jagged protrusions caused by cracking and rusting.

Recycled plastic **Sleeper & Retaining Wall** profiles have passed the test of time in public open space beating vandalism, the elements and ensuring site retention in the harshest conditions.

- Aesthetic & cost effective means of meeting your sleeper requirements.
- Toxin free, no creosote or CCA treatment required. Lighter weight means easy installation, yet material means stronger more permanent installation.
- By design and proven as robust as concrete, timber or metal, but safer and longer lasting.
- UV Stabilized material guarantees longevity of product and products appearance.
- Safety first design reduces liability operators are exposed to.
- Available various sizes to best suit your application.

## Bollards

- 100% recycled Plastic Moulded
- Co-Mingled Recycled Plastic Moulded
- Co-Mingled Recycled Plastic Extruded



## Post & Rail Systems

Recycled Post and Rail Systems are easy to install and available in a range of lengths to suit any project. Pre moulded pilot holes guarantee quick and accurate installation whilst ensuring coach screws are placed for maximum strength and support.



# Thermoplastic Machining



## Machining

Our machining facility is equipped with state of the art CAD-CAM and CNC systems, to convert our basic shapes into custom machined finished components.

## Machining of Engineering Plastics

In view of the poor thermal conductivity and the relatively low melting points of thermoplastics, one must make sure that the generated heat is kept to a minimum and heat-build up in the plastic part is avoided. This is in order to avoid colour changes or melting of the plastic surface. Therefore:

- tools must be kept sharp and smooth at all times;
- tools must have sufficient clearance so that only the cutting edge contacts the material;
- coolants should be applied for operations where excessive heat is generated (e.g. drilling operations).

As engineering plastics are not as rigid as metals, it is essential to support the work adequately during machining to prevent deflection, e.g. thin walled bushings often require an internal plug for accurate machining of the outside diameter.

## Cutting Tools

Similar to metal work, carbon steel, high speed steel and TCT tools can be used. However high speed steel and carbide tipped tools are preferred for long production runs on graphite and glass fibre filled thermoplastics.

## Coolants

Only required for machining operations where a lot of heat is generated. Cooling liquids, preferably of the soluble oil type do perfectly. Compressed air can also be used.

## Machining Tolerances

The machining tolerance for thermoplastics are considerably larger than those normally applied to metal parts. This is because of the increased coefficient of thermal expansion, plus swelling due to moisture absorption and possible deformations caused by internal stress-relieving during machining. The latter phenomenon mainly occurs on parts where machining has caused heavy section-changes (e.g. on a bushing machined out of a large round rod). In these cases thermal treatment (stress relieving) after premachining of the part is necessary (oversize of min.3%). As a rule of thumb, for turned or milled parts, a machining tolerance of 0.1 to 0.2% of the nominal size can be allowed without taking special precautions (min. tolerance for small dimensions being 0.05mm).

This chart has been correlated to assist you in product selection. Its contents are to be used as a guide only. If you require additional information, more specific literature is available.

	Elongation	Compressive Strength	Impact Resistance	Wear Resistance	Dimensional Stability	Dielectric Strength	Co-efficient of Friction*	Machinability	Moisture Content	Chemical Resistance	Cont. Working Temperature °C	
											Min.	Max.
Polystone 300	19	9	18	8	5	10	9	20	19	13	-50	80
Polystone 500	20	12	20	10	5	10	12	19	19	13	-100	80
Polystone7000	18	10	20	17	5	10	18	19	19	13	-269	80
Polystone Ultra	18	11	20	19	6	10	15	19	19	13	-269	80
Polystone 7000SR	14	11	19	18	6	9	15	19	19	13	-200	80
Polystone 8000+	14	11	18	19	7	10	15	19	19	13	-269	90
Polystone Marine Grade	18	10	20	14	5	10	13	19	19	13	-75	90
Ertacetal (H)	2	19	7	9	10	6	9	17	14	8	-50	105
Ertacetal (C)	2	18	8	7	9	6	9	17	15	9	-50	115
Ertalyte	1	20	4	8	14	5	15	18	16	9	-20	115
Ertalyte TX	1	19	4	15	13	6	18	18	17	9	-20	115
Ertalon 6SA	3	12	14	7	5	3	10	15	4	6	-40	85
Ertalone 66SA	2	16	12	11	7	4	10	16	5	7	-30	95
Ertalon 6PLA	2	14	12	11	7	3	10	16	5	7	-30	105
Ertalon 6XAU	2	15	10	12	7	5	10	16	5	7	-30	120
Ertalon LFX	4	12	8	14	7	3	15	16	5	7	-20	105
Nylatron GS	2	16	7	11	6	5	11	16	5	7	-20	100
Nylatron GSM	2	16	7	11	6	4	14	16	5	7	-30	105
Nylatron MC901	2	15	12	12	7	5	10	16	5	7	-40	120
Ertalon 4.6	2	14	8	10	12	6	11	16	6	7	-40	155
Erta PEI	3	16	9	7	20	7	14	15	15	7	-60	200
Erta PSU	3	15	6	7	14	8	14	15	15	7	-60	170
Erta PEEK	2	17	10	11	16	6	16	16	17	17	-60	250
Erta PEEK BG	1	18	9	15	19	1	17	15	18	17	-30	250
PVDF	16	13	15	8	6	5	16	17	19	15	-40	150
Ertalon 66GF30	1	18	11	12	14	9	10	12	5	7	-20	95
Ertaxel	3	16	12	17	16	5	16	15	15	7	-20	220
VespeI	2	16	9	11	16	5	16	16	16	17	-273	255
Torlon 4203	2	16	10	7	16	6	15	17	5	9	-200	250
Tetron S	14	1	16	2	8	20	17	20	20	20	-200	260
Tetron G	12	2	10	3	15	20	20	15	19	20	-200	260
Tetron B	8	3	6	4	7	2	18	7	19	12	-200	260
Tetron GR	6	4	7	5	10	3	19	12	19	18	-200	260
Tetron C	5	4	8	5	12	1	19	11	19	18	-200	260
Polystone P(H)	18	13	19	8	5	10	9	10	18	13	-20	100
Polystone P(C)	19	12	20	9	4	10	8	10	18	13	-20	60
Safeguard	3	16	15	3	6	15	-	8	4	2	-60	135
PVC	3	15	10	4	9	12	-	12	19	12	-10	60

\* Under load. Indicated figures reveal the highest number has the "best" property.



# Thermoplastic Selection Guide



MATERIAL	Description & Application	Price vs 6PLA	Strength	Impact Resistance	Wear Resistance	Linear Thermal Exp	Co-eff of Friction (Dry)	Machinability	Chemical Resistance	Continuous Operating Temp °C	Suitable for Direct Food Contact	Chemical Name	Other Names
<b>Ertalon 6SA (Natural / Black)</b>	General Purpose extruded nylon. Good impact properties. Gears, rollers, pulleys & Bearings	0.75 (Nat)	Good, but lowest of the nylon family (76 MPa)	Very good	Good	Low	0.25 – 0.50	Average. Can be stringy	Good	-40 to +85	YES	Polyamide (PA) (Extruded)	Sustamid, Zytel, Ultramid, Wearlon, Sustaplast, Magnalon
<b>Ertalon 66SA (Natural)</b>	Standard extruded nylon with better mechanical properties than 6SA. Gears, rollers, pulleys & bearings	0.95	Slightly higher than 6PLA (90 MPa)	Very Good	Very Good	Low	0.25 – 0.50	Good	Good	-30 to +95	YES	Polyamide (PA) (Extruded)	Sustamid, Zytel, Ultramid, Wearlon, Sustaplast, Magnalon
<b>Ertalon 6PLA (Natural)</b>	Same as 66SA, except material is cast.	1	Better than 6SA (85 MPa)	Very Good	Very Good	Low	0.25 – 0.50	Good	Good	-30 to +105	ONLY IF BATCH TESTED	Polyamide (PA) (Cast)	Austlon, Wearlon, Sustamid
<b>Ertalon 6XAU+ (Black)</b>	Same as 6PLA + Heat Stabilised for longer life at high temp	1.2	Same as 6PLA (83 MPa)	Very Good	Slightly better than 6PLA	Low	0.25 – 0.50	Good	Good	-30 to +120	NO	Polyamide (PA) (Cast)	Austlon, Wearlon, Sustamid
<b>Ertalon LFX (Green)</b>	6PLA + Oil. Self-lubricating nylon. Bearings & slide pads	1.2	Lower than 6PLA (70 MPa)	Very Good	Excellent	Low	0.15 – 0.25	Good	Good	-20 to +105	NO	Polyamide (PA) (Cast)	Austlon, Wearlon, Sustamid
<b>Nylatron GSM (Dark Grey)</b>	6PLA + MoS <sub>2</sub> . Self-lubricating but stronger than LFX. Sheaves & slide pads	1.2	Slightly lower than 6PLA (78 MPa)	Very Good	Excellent	Low	0.15 – 0.25	Good	Good	-30 to +105	NO	Polyamide (PA) (Cast)	Austlon, Wearlon, Sustamid
<b>Nylatron MC901 (Blue)</b>	Modified 6PLA. Improved toughness & fatigue. Gears & racks	1.5	Similar to 6PLA (81 MPa)	Excellent	Very Good	Low	0.25 – 0.50	Good	Good	-30 to +105	NO	Polyamide (PA) (Cast)	Austlon, Wearlon, Sustamid
<b>Ertalyte (Natural / Black)</b>	Tough material with moderate wear. Good machinability	1.15	Similar to LFX (68 MPa)	Good, retains impact at very low temp. sub zero	Moderate	Moderate	0.25 – 0.35	Excellent	Good. Better in copolymer grade	-50 to +115 (copolymer)	YES	Polyoxymethylene (POM) Also known as Polyacetal	Delrin, Hostaform, Acetal, Wearace, Celcon, Sustarin, Magnacetal
<b>Ertalyte (Natural)</b>	Hard, strong & stiff bearing material	1.9	High (90 MPa)	Poor	Better than LFX	Very Low	0.25 – 0.35	Good to Excellent	Good	-20 to +105	YES	Polyethylene Terephthalate (PETP) Also known as Polyester	Vesconite, Rynite, Arnite, Tuffclad Moly, Hostadur
<b>Ertalyte TX (Pale Grey)</b>	Improved wear resistance over Ertalyte	2.8	Lower than Ertalyte (76 MPa)	Poor	Better than Ertalyte	Very Low	0.15 – 0.25	Good to Excellent	Good	-20 to +115	YES	Polyethylene Terephthalate (PETP) Also known as Polyester	Vesconite HiLube, Rynite, Arnite, Tuffclad Moly, Hostadur
<b>Polystone PP Polypropylene (Beige)</b>	General purpose. Good for fabrication	0.4	Good compared to other Polyolefins (26 MPa)	Good	Poor	Moderate to high	Not designed for sliding	Average. Finish can be feathery	Excellent	-10 to +130	YES	Polypropylene (PP)	Simona PP, Hostalen PP
<b>Polystone 300 HDPE (Natural/ Black)</b>	General purpose, rigid material. Good for fabrication. Cutting boards.	0.4	Average (22 MPa)	Good	Poor, better than PP	High	0.15 – 0.25	Good	Very Good	-50 to +80	YES	High Density Polyethylene (HDPE)	Ploystone G, Laserlite, Flight, Calask, Hostalen GM 5010, Sanatec
<b>Polystone 500 - HMMWPE (Natural)</b>	Good all round material. Excellent for cutting boards	0.5	Good compared to other Polyolefins (28 MPa)	Very Good	Good (but not bearing loads)	High	0.15 – 0.25	Good	Very Good	-100 to +80	YES	High Molecular Weight Polyethylene (HMMWPE)	Polytone D, Castilene HD 500, Ralloy, RCH 500
<b>Polystone 7000 UHMWPE (Natural)</b>	General purpose UHMWPE. Excellent strength, wear & impact.	0.7	Average (≥20 MPa)	Very Good	Excellent (but not bearing loads)	High	0.10 – 0.22	Good	Very Good	-260 to +90	YES	Ultra High Molecular Weight Polyethylene (UHMWPE)	Polystone M, Castilene HD 1000, Ralloy, Pactene, Tivar, Wearax
<b>Polystone 7000 SR UHMWPE (Black)</b>	Same as P7000, but static reduced.	0.7	Average (≥20 MPa)	Very Good	Excellent (but not bearing loads)	High	0.10 – 0.22	Good	Very Good	-200 to +90	NO	Ultra High Molecular Weight Polyethylene (UHMWPE)	Polystone M, Castilene HD 1000, Ralloy, Pactene, Tivar, Wearax
<b>Polystone Ultra - UHMWPE (Green)</b>	Improved wear resistance & flow promotion over P7000	0.75	Average (≥20 MPa)	Very Good	Excellent (but not bearing loads). Better than P7000	High	0.10 – 0.22	Good	Very Good	-260 to +90	YES	Ultra High Molecular Weight Polyethylene (UHMWPE)	Polystone M, Castidur, Ralloy, Pactene, Tivar, Wearax
<b>Polystone 8000+ UHMWPE (Blue)</b>	Specially formulated for enhanced mechanical properties for dewatering elements	1	Average (≥19 MPa)	Very Good	Excellent (but not bearing loads). Better than P/Ultra	High	0.10 – 0.22	Good	Very Good	-260 to +90	NO	Ultra High Molecular Weight Polyethylene (UHMWPE)	Polystone M, Castilene ASTL, Pactene, Ceram P
<b>Trovitur EN (PVC)</b>	Low cost material suitable for fabrication	0.6	Good (55 MPa)	Very Good	Poor.	Low	N/A	Good	Good	-15 to 60	NO	Polyvinylchloride (PVC)	Tecavinyl, Pas-PVC
<b>Safeguard</b>	Clear Safety guard material. High Impact Resistance	0.8	Good (65 MPa)	Excellent	Poor	Low	N/A	Good (wash solvents off after machining)	Poor (Hardcoat is good)	-60 to 125	YES	Polycarbonate (PC)	Lexan, Hyzod



**Specialised**  
*Wholesale & Plastics*



**EMKA**

**TRIDON**

**RONSTAN**



**ROMAK**

HARDWARE DISTRIBUTORS

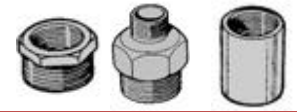
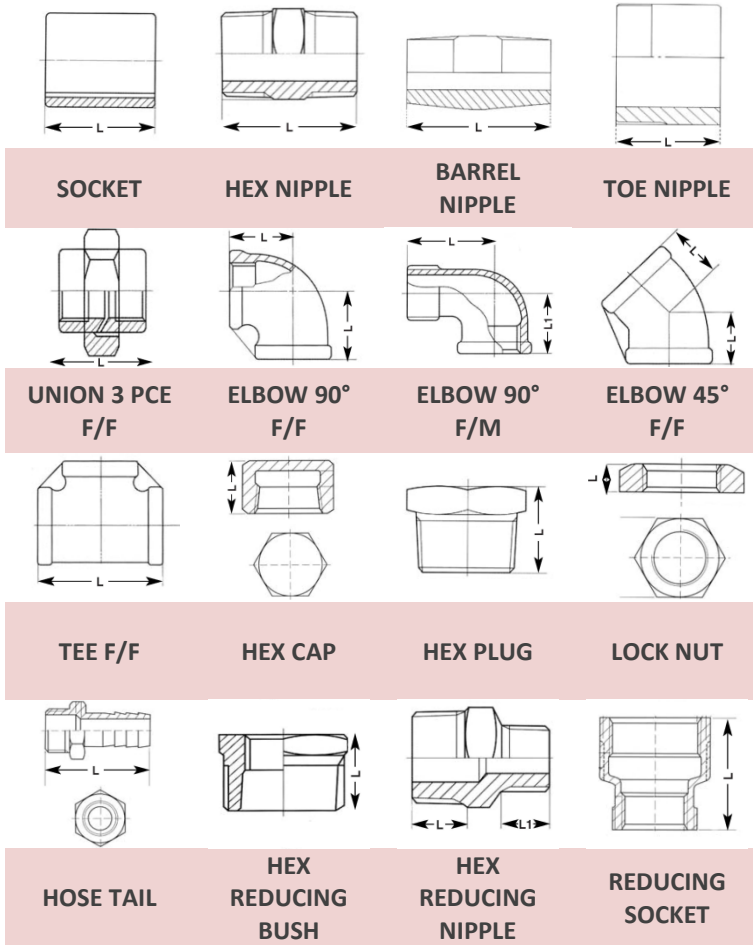


# HARDWARE





# BSP Fittings



INCH	MM	Hex Reducing Bush	Hex Reducing Nipple	Reducing Socket
1/4 X 1/8	8 X 6	✓	✓	
3/8 X 1/8	10 X 6	✓	✓	
3/8 X 1/4	10 X 8	✓	✓	✓
1/2 X 1/8	15 X 6	✓	✓	
1/2 X 1/4	15 X 8	✓	✓	✓
1/2 X 3/8	15 X 10	✓	✓	✓
3/4 X 18	20 X 6	✓	✓	
3/4 X 1/4	20 X 8	✓	✓	
3/4 X 1/8	20 X 10	✓	✓	✓
3/4 X 1/2	20 X 15	✓	✓	✓
1 X 1/4	25 X 8	✓	✓	
1 X 3/8	25 X 10	✓	✓	
1 X 1/2	25 X 15	✓	✓	✓
1 X 3/4	25 X 20	✓	✓	✓
1 1/2 X 3/8	32 X 10	✓	✓	
1 1/4 X 1/2	32 X 15	✓	✓	
1 1/4 X 3/4	32 X 20	✓	✓	
1 1/4 X 1	32 X 25	✓	✓	✓
1 1/2 X 1/2	40 X 15	✓	✓	
1 1/2 X 3/4	40 X 20	✓	✓	
1 1/2 X 1	40 X 25	✓	✓	✓
2 X 3/4	50 X 20	✓	✓	

INCH	MM	Socket Round	Nipple Hex	Barrel Nipple	Toe Nipple	Union 3 Piece	Elbow 90° F	Elbow 45° M/F	Elbow 45° F/F	Tee F	Hex Cap	Hex Plug F	Lock Nut	Hose Tail
1/8	6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1/4	8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3/8	10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1/2	15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3/4	20	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1	25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1 1/4	32	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1 1/2	40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2 1/2	65	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	80	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	100	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	150													

# Newcastle's complete stockists of ***stainless*** Handrail & Balustrading

***Mirror tube*** - cut to size or full lengths

***Complete range*** - wire ropes, fittings and sundries in stock

***Acrylic infill panels available*** - Clear or coloured

***Crimping tool hire***

***Expert advice*** - backup service

## ***Specialised Balustrading***

*Looks great in the HOME, at the OFFICE or on the BOAT.*

***Simple assembly - looks great - low maintenance***

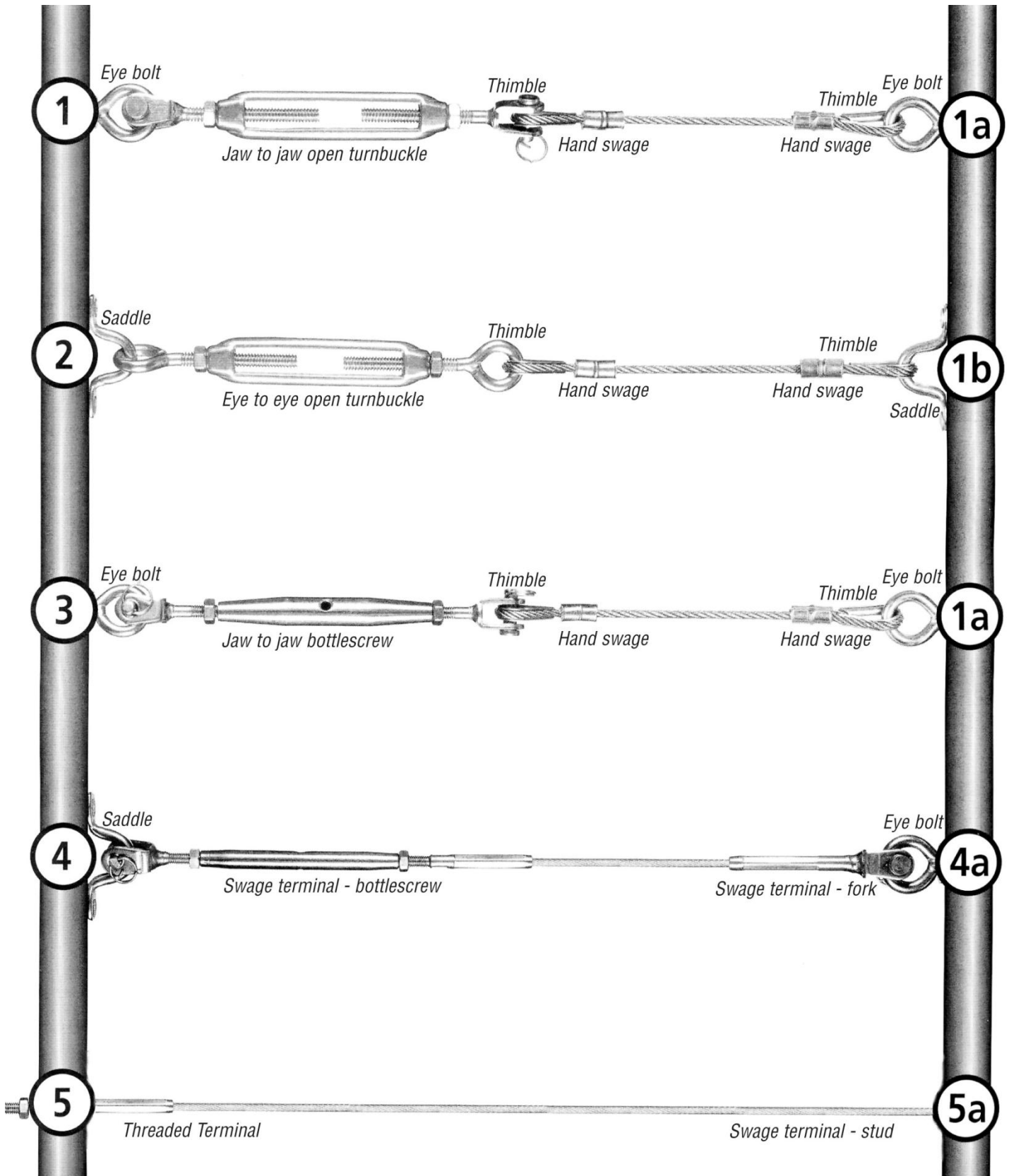
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# Balustrading



Your choice of balustrading styles and post fittings.



	SKU	CODE	DESCRIPTION	SIZE
WIRE ROPE	09274 / 09272	WRM3.2-316-7X19?	3.2mm (1/8") 316 7x19 (SOFT)	3.2MM (1/8")
	09273 / 09271	WRM3.2-316-7X7?	3.2mm (1/8") 316 7x7 (MEDIUM)	3.2MM (1/8")
	20840/20841	WRM3.2-316-1X19?	3.2mm (1/8") 316 1X19 (STIFF)	3.2MM (1/8")
		? = R or M	R=ROLL M=CUT/Mtr	

## Components

	SKU	CODE	DESCRIPTION	SIZE
1	03399	TBM5-316JJO	Open Turnbuckle 316 Jaw/Jaw	M5
	03423	THM3-304	Wire Rope Thimble 304	M3
	09279	SWAM3	Swage Copper/Ni CP-130NP	M3
2	03385	TBM5-316EEO	Open Turnbuckle 316 Eye/Eye	M5
	03423	THM3-304	Wire Rope Thimble 304	M3
	09279	SWAM3	Swage Copper/Ni CP-130NP	M3
3	09241	TBM5-316JJB	Bottlescrew Turnbuckle 316 Jaw/Jaw	M5
	03423	THM3-304	Wire Rope Thimble 304	M3
	09279	SWAM3	Swage Copper/Ni CP-130NP	M3
4	09239	TB18XM5-316JTB	Swage Terminal - Bottlescrew/Jaw 316	M5
	09320	ST18xM5-316F	Swage Terminal - Fork 316	M5
5	04208	ST18XM5-316S	Swage Terminal - Stud 316	M5

## Sundries

	SKU	CODE	DESCRIPTION	SIZE
	09268	GRM8B	Grommets - Black	M8 ID
	03409	WESM5-304	Saddles (Wire Eye Strap) 304	M5

## Swager Hire

Hand swager and hydraulic swager hire is available.

## Building Recommendations

(PLEASE CONSULT WITH YOUR LOCAL COUNCIL)

Max distance between wires when stretched: **125mm** (suggest **100mm gaps**).

Railing Height: **1000mm** above floor, **865mm** above step tread.

Posts: **1200mm to 1300mm** apart – SHOULD NOT EXCEED **1500mm**.

Over 4 metres from surface below – must not facilitate climbing (i.e. vertical wires).








## 2" Balustrading Rail 316

IMAGE	SKU	DESCRIPTION
	18909	BALUSTRADE 40MM END CAP-FLAT (1519A)
	18908	BALUSTRADE 40MM POST BASE-OBLONG (1514A)
	14859	BALUSTRADE 50MM ELBOW 90DEG RAD (2001E)
	08806	BALUSTRADE 50MM ELBOW 90DEG (2002E)
	18915	BALUSTRADE 50MM ELBOW 135DEG (2003E)
	18920	BALUSTRADE 50MM ELBOW ADJUSTABLE (349E-2)
	08807	BALUSTRADE 50MM TEE-3 WAY 90DEG (2006E)
	18911	BALUSTRADE 50MM TEE-3 WAY 135DEG (2007E)
	08814	BALUSTRADE 50MM POST TOP TUBE JOINER (2005E)
	08808	BALUSTRADE 50MM TEE-4 WAY (2008E)
	18912	BALUSTRADE 50MM TEE- 4 WAY STAR (2010E)
	08809	BALUSTRADE 50MM END CAP – DOME (2018A)
	08810	BALUSTRADE 50MM END CAP – FLAT (2019A)
	08821	BALUSTRADE 50MM END CAP – LIGHT (2030A)
	08811	BALUSTRADE 50MM STRAIGHT JOINER (2004E)
	08817	BALUSTRADE 50MM PERPENDICULAR JOINER 90DEG EXTERNAL (313A-2)
	18916	BALUSTRADE 50MM PERPENDICULAR JOINER 90DEG EXTERNAL & CAGE (313AL-2)
	14848	BALUSTRADE 50MM PERPENDICULAR JOINER 90DEG (2027A)



## 2" Balustrading Rail 316 (CONTINUED)

IMAGE	SKU	DESCRIPTION
	18917	BALUSTRADE 50MM PERPENDICULAR JOINER 37DEG EXTERNAL (314A-2)
	18918	BALUSTRADE 50MM PERPENDICULAR JOINER 37DEG EXTERNAL & CAGE (314AL-2)
	08812	BALUSTRADE 50MM POST BASE – ROUND (2016A)
	08813	BALUSTRADE 50MM POST BASE – OBLONG (2014A)
	08815	BALUSTRADE 50MM RAIL SUPPORT ADJUSTABLE FLAT EXTERNAL (316AP-2)
	08816	BALUSTRADE 50MM RAIL SUPPORT ADJUSTABLE RADIUS EXTERNAL (316A-2)
	09284	BALUSTRADE 50MM RAIL SUPPORT ADJUSTABLE FLAT (315AP-2)
	09283	BALUSTRADE 50MM RAIL SUPPORT ADJUSTABLE RADIUS (315A-2)
	18919	BALUSTRADE 50MM RAIL SUPPORT ADJUSTABLE ROUND BASE (315AC-2)
	08819	BALUSTRADE 50MM WALL STOP FLANGE 45DEG (2015A)
	08818	BALUSTRADE 50MM HANDRAIL SUPPORT RADIUSED (2028A)
	14852	BALUSTRADE 50MM HANDRAIL SUPPORT FLAT (2029A)
	18914	BALUSTRADE 50MM PARAPET RAIL CENTRE SUPPORT (2058A)
	08820	BALUSTRADE 50MM PARAPET RAIL END SUPPORT (2059A)
		BALUSTRADE 50MM TUBE 316 – MIRROR CTS – PER MTR * Cut to Size Available *



## Stainless Industrial Hardware

PRODUCT	SIZES	GRADE
TOGGLE LATCH	Small & Large	304/A2
PAD BOLT	115 & 150 150 Long Shoot	316/A4
BUTT HINGE	2", 2 1/2", 3", 4", 5" Standard and with Stainless or Nylon Bearings	304/A2
PIANO HINGE	All sizes 1800mm long, M25, M32, M38, M50 Undrilled & M32 Drilled	304/A2
U BOLT	1/2" NB to 6" NB 3/4" OD to 3/8" OD (Keepers also available)	316/A4
U BOLT WITH KEEPER	8mm to 12mm	304/A2
WIRE ROPE GRIP	M2, M3, M4, M5, M6, M8, M10, M12	304/A2 (Body 316)
WIRE EYE STRAP	M5, M6, M8	304/A2
WIRE ROPE THIMBLE	M2, M3, M4, M5, M6, M8, M10, M12, M16, M20	304/A2
GREASE NIPPLE	1/8 BSP & 1/4 BSP, M6 & M8, 1/4 UNF	304/A2
SWIVEL EYE BOLT SNAP	M19	316/A4
CUP HOOK - SHOULDERED	16mm - 32mm	304/A2
SQUARE HOOK - SHOULDERED	16mm - 32mm	304/A2
SCREW EYES	20mm - 42mm	304/A2

## Stainless Industrial Hardware

PRODUCT	SIZES	GRADE
SPRING HOOK	M5, M6, M7, M8, M10, M11	316/A4
ASYMMETRIC SPRING HOOK	M8, M10	304/A2
CAST SNAP HOOK	M50, M70, M100	304/A2
S HOOK	M6, M8, M9	304/A2
ROUND RING	M4, M5, M6, M8	304/A2
DEE RING	M4, M5, M6, M8	304/A2
TRIANGLE RING	M6, M8	304/A2
SLIDE	M50	304/A2
EYE/EYE SWIVEL	M6, M8, M10	316/A4
JAW/JAW SWIVEL	M6, M8, M10	316/A4
HOOK/EYE TURNBUCKLE	M5, M6, M8, M9, M12 (nuts in 304)	316/A4
EYE/EYE TURNBUCKLE	M5, M6, M8, M9, M12 (nuts in 304)	316/A4
JAW/JAW TURNBUCKLE	M5, M6, M8, M9, M12 (nuts in 304)	316/A4
JAW/JAW PIPE TURNBUCKLE	M5, M6, M8 (nuts in 304)	304/A2

## Stainless Industrial Hardware

PRODUCT	SIZES	GRADE
D SHACKLE	M4, M5, M6, M8, M10, M12, M16	316/A4
LONG D SHACKLE	M6, M8, M10	316/A4
BOW SHACKLE	M5, M6, M8, M10, M12	316/A4
TWIST SHACKLE	M4, M5, M6, M8, M10	316/A4
STRAP SHACKLE	M4, M5	304/A2
QUICK LINK	M4, M6, M8, M10	316/A4
C LINK/RING	M10	316/A4
EYE BOLT	Dia M6 - M12 Lth 40 - 150mm + 1 Nut & 2 Flat Washers	304/A2
RING BOLT	M6, M8, M9, M12 + 1 Nut & 1 Flat Washer	304/A2
SCREW EYE	M6, M8, M10, M12	316/A4
COLLARED EYE BOLT	M6, M8, M10, M12	316/A4
EYE NUT	M6, M8, M10, M12, M16	316/A4
EYE PLATE	M5, M6, M8	304/A2
CHAIN	M2, M3, M4, M5, M6, M8, M10	316/A4



# Hinges



## Stainless Hinges

IMAGE	NAME	SIZE (mm)	SKU's
	STAINLESS BUTT HINGES Stainless Steel	50, 63, 75, 100	00736, 00737, 00738, 00739
	NON-MORTICE BUTT HINGES Stainless, Flush Closure	90	00740
	BLACK NYLON Nylon with Stainless Pin	45, 63, 75, 87	00751, 00752, 00753, 00754
	CAST STAINLESS Heavy Duty 316 Stainless Steel	102, 154	00741, 00742
	PRESSED STAINLESS Light Duty, Strap Hinges	102, 156	00755, 00757
	PRESSED STAINLESS Light Duty, Strap Hinges	OA Length: 130mm Short: 52mm, Long: 78mm	00756
	HEAVY FLAT STAINLESS Heavy Duty, Stainless Steel	176	00744
	HEAVY FLAT STAINLESS Heavy Duty, Stainless Steel	OA Length: 85mm Short: 36mm, Long: 48mm	00745
	HEAVY FLAT STAINLESS Heavy Duty, Stainless Steel	OA Length: 126mm Short: 39mm, Long: 87mm	00743
	STAINLESS OFFSET Heavy Duty, Stainless Steel	16 X 20 10mm Offset	00750
	STAINLESS OFFSET Heavy Duty, Stainless Steel	10mm Offset 20mm Offset	00748 00749
	STAINLESS BUTT HINGES Cast 316 Stainless Butt Hinge	38 X 38	00746
	STAINLESS HINGES Cast 316 Stainless Butt Hinge	72 X 38	00747

## Weld-On Hinges

IMAGE	SKU	LENGTH (mm)	R1	R2	d	WEIGHT (Kg/100u)
	18414	40	8	9.5	5	1.6
	ON REQUEST	45	10	12	6	2.7
	ON REQUEST	50	8	9.5	5	2
	18403	60	10	12	6	3.7
	ON REQUEST	70	11.5	13.5	7	5.6
	18415	80	13	15.5	8	8.4
	18416	100	16	20	10	16.7
	18417	120	16	20	11	20.3
	47161	135	18	22	12	28
	ON REQUEST	140	20	25	12	36.5
	47162	150	20	25	13	39.7
	ON REQUEST	160	20	25	12	42.3
	47163	180	20	25	14	48
	ON REQUEST	200	23	28.5	16	68.5

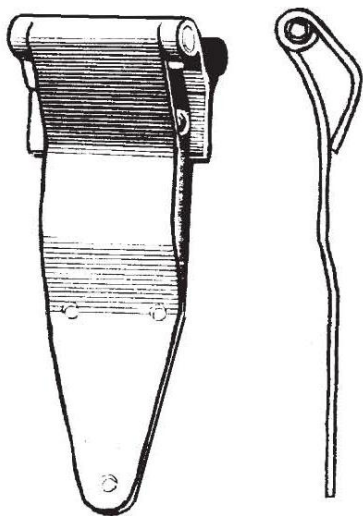
**Profile: Steel Pin: Steel. Washer: Brass. Also Available in 304 Stainless Aluminium & Steel (with Brass Pin)**





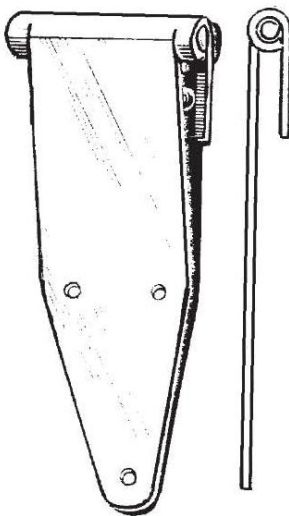
## Multi Purpose Hinges

MULTI PURPOSE OFFSET



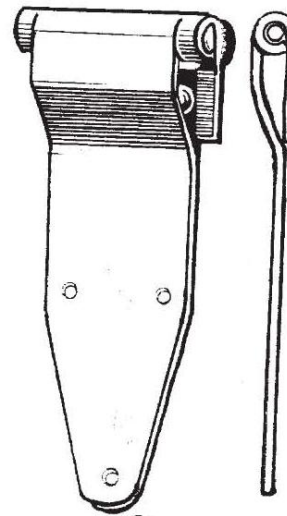
33196 – SKU # 21970

MULTI PURPOSE STRAIGHT



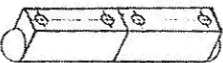
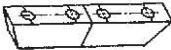

UMPS – SKU # 00590

MULTI PURPOSE BENT



UMPB – SKU # 00589

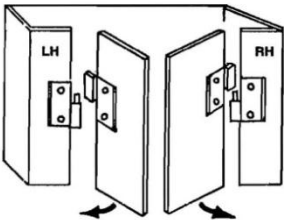
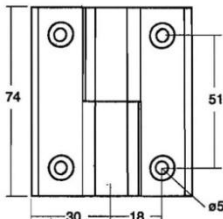

## Pintle Hinges – Chrome Plated Brass Pin Hinges with ST/ST pins

IMAGE	CODE	END	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	THREAD
	I/D03	DOME	92	12	19	M6
	I/D05	CHAMFERED	68	9.5	12.5	M4
	I/D81	FLAT	80	12	16	M6

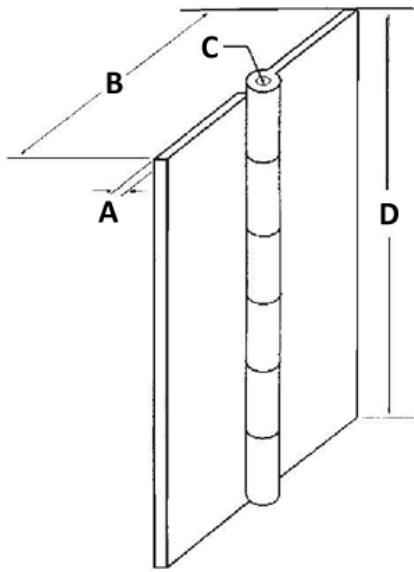
## Lift-Off Moulded Hinges

Moulded in 15% glass filled nylon with 10mm diameter pin in 303 Stainless Steel.

Hinges will open fully forward to 180 degrees and backward to 45 degrees from horizontal.

IMAGE	SIDE	SKU #
 <p>Two hinges should be fitted to each door</p>  	Right Handed	00597
	Left Handed	00598

# Continuous Hinge



- A** Material Thickness
- B** Size – Measured Open Flat
- C** Pin Diameter
- D** Length Standard 1800 or 2400

	A	B	C
0.6 (24g)	28	50	1.6
	38		
0.9 (20g)	25	50	3.15
	32	76	
	38	100	
1.2 (18g)	25	50	3.15
	32	76	
	38	100	
1.5 (16g)	32	64	5.00
	38	76	
	50	100	
	57		
2.0 (14g) and	50	100	6.35
	64	125	
2.5 (12g)	76	150	8.0
	50	100	
3.0 (10g)	64	125	8.0
	76	150	

## Material

Mild Steel, Stainless Steel 304 2B, Galvabond, Zinannealed, Aluminium Mill Grade, Brass (1800 only).

## Pin Material

Mild Steel, Stainless Steel 304 Grade, Brass, Gal, Aluminium (3.15 X 1800).

## Special Services Available on Request

- Design & Manufacture to Special Requirements
- Holes Punched & Countersunk
- Painted & Plated Finish
- Cropped to Specific Lengths

**NOTE:** Galvabond & Stainless Ex. Stock. Other materials manufactured to order.

# Gate Hinges



IMAGE	NAME	DESCRIPTION
	<b>TIMBER GATE HINGE TU 1</b>	The original heavy duty ball bearing hinge. Used extensively for timber gates, but can be easily adjusted for timber-to-steel or steel-to-steel gate designs. Also available as adjustable hinge.
	<b>TIMBER GATE HINGE TU 1S</b>	Similar in applications to <b>TU 1</b> , bush diameter 25mm in all cases. Pin diameter 19mm in all cases. Screw holes, diameter 9mm in all cases.
	<b>BUTT HINGE TU 1B</b>	Suitable for many applications including hatchcovers, external shutters, heavy framed ledges and brace doors.
	<b>TIMBER GATE HINGE ADJUSTABLE STANDARD TU 1A</b>	Measurements as for <b>TU 1</b> but can take up to 19mm height adjustment for sagging posts, irregular paving or bad gate design.
	<b>TIMBER TO STEEL TU 2</b>	Used for timber post and steel framed gate application. Bush welded to frame. Left hand shown.
	<b>TIMBER TO STEEL TU 2A</b>	Same as <b>TU 2</b> except bush has plate attached. Left hand shown.
	<b>BALL BEARING TYPE HEAVY DUTY BUTT HINGE TU 3</b>	Lift off of fixed applications. Pre-drilled or plain plates for welding. Zinc or raw finish. Will not sag and ball bearing to pin surface ensures smooth opening and closing actions.
	<b>PRISON HINGE BALL BEARING TU 3P</b>	This unique and extremely strong hinge has been designed for hinged cell front doors and grated steel doors in penitentiaries, gaols, reformatories etc.
	<b>STEEL TO STEEL TU 5</b>	Small pin plate enables welding to flat steel surface. Left hand shown
	<b>STEEL TO STEEL TU 5A</b>	Same as <b>TU 5</b> except bush has plate attached. Left hand shown

# Gate Hardware



## Multi-Fit – General Purpose Gate Hinges

IMAGE	NAME	CODE	MAX GATE	SIZE (mm)	LEAF	CTN
	PLAIN (NO SPRING) POST OR WALL FIXED	MFP	20 kg	110 X 82	38/25mm	50pr
	SELF CLOSING – FIXED TENSION POST FIXED	MFS	20 kg	110 X 82	38/25mm	50pr
	1 x PLAIN (MFP) + 1 x SELF CLOSING (MFS)	MFPMFS	20 kg	110 X 82	38/25mm	50pr
	SELF CLOSING – TENSION ADJUST POST OR WALL FIXED	MFA	12 kg	110 X 82	38/25mm	50pr
	MULTI-FIT SAFETY CAP	MFCAP	SAFETY CAP TO SUIT ALL <b>MULTI-FIT</b> MODELS			

## Tru-Close Self Closing Gate Hinges – Standard Range

IMAGE	CODE	MAX GATE	SIZE (mm)	LEAF (mm)	CTN/WEIGHT
<b>TENSION ADJUSTABLE – SELF CLOSING</b>					
	TCA1	25 kg	90 X 66	24/24	20pr/4.8 kg
	TCA2	25 kg	90 X 104	24/62	20pr/5.4 kg
	TCA3	25 kg	90 X 143	62/62	20pr/5.8 kg
<b>TENSION ADJUSTABLE – SELF CLOSING – WITH 2 QUICK FIT ALIGNMENT LEGS</b>					
	TCA112	25 kg	90 X 66	24/24	20pr/5.7 kg
	TCA212	25 kg	90 X 104	24/62	10pr/3.1 kg
	TCA312	25 kg	90 X 143	62/62	10pr/3.1 kg
TCA112	TCA212	TCA312	TCACAP	SAFETY CAP TO SUIT ALL <b>TCA</b> MODELS	

## Tru-Close Self Closing Gate Hinges – Heavy Duty Range




IMAGE	CODE	MAX GATE	LEGS	SIZE (mm)	LEAF (mm)	CTN
<b>TENSION ADJUSTABLE – SELF CLOSING</b>						
	TCHD1A	60 kg	None	125 X 87	34/34	40pr
	TCHD1AL1	60 kg	1	125 X 87	34/34	40pr
	TCHD1AL2	60 kg	2	125 X 87	34/34	40pr
	TCHD1	60 kg	None	125 X 120	50/50	35pr
	TCHD1L1	60 kg	1	125 X 120	50/58	35pr
	TCHD1L2	60 kg	2	125 X 120	50/50	35pr
	TCHD2	60 kg	None	125 X 176	78/86	30pr
	TCHD2L2	60 kg	2	125 X 176	78/78	30pr
	TCHD2L1S	60 kg	1*	125 X 176	78/86	30pr
TCHD1AL2	TCHD1L2	TCHD2L1S	TCHDCAP	SAFETY CAP TO SUIT ALL <b>TCH</b> MODELS		

\* Slotted on the leaf without leg for fixing adjustment.








## Magna-Latch – Magnetic Safety Gate Latches

IMAGE	CODE	NAME	SIZE (mm)	CTN
 TOP PULL - SERIES 2	MLTPS2BGA	TOP PULL - SERIES 2	515 x 86	20
 VERTICAL PULL - SERIES 2	MLVPS2BGA	VERTICAL PULL – SERIES 2	260 x 86	40
 SIDE PULL	MLSPBX	SIDE PULL	60 x 78	20
	MLS2RPAKA	ROUND POST KIT – SERIES 2	-	10
	MKEYDUP	LATCH KEY	-	10

## Lokk-Latch – Series 2 – General Purpose Gate Latch




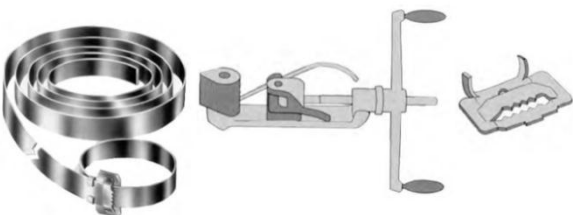
IMAGE	CODE	NAME	CTN
	LLAA	LOKK-LATCH	50
	LLB	EXTERNAL ACCESS KIT	100
	LLAAB	LOKK-LATCH COMBINED KIT	10
	LLARND	ROUND POST LOKK-LATCH	40
	LLABRND	ROUND LOKK-LATCH COMBINED KIT	10
	LLHDBG	GATE HANDLE (ACCESSORY)	50

## Gate Kits – Includes Latch & Hinges



IMAGE	CODE	NAME	CONTENTS	CTN
	MTSTDKS2	MAGNA STANDARD GATE	Magna Latch (Series 2) + 2 x Tru-Close Hinges (TCA1)	10
	MTHDKS2	MAGNA HEAVY DUTY GATE KIT	Magna Latch (Series 2) + 2 x Tru-Close Hinges (TCHD1AL1)	5
	MLMFSKS2	MAGNA MULTI KIT	Magna-Latch (Series 2) + 2 x MultiFit Hinges (MFS)	10
	LLMFPGPK	LOKK MULTI KIT	Lokk-Latch (System 1) + 2 x Multi-Fit Hinges (MFP)	10

# Hose Clamps

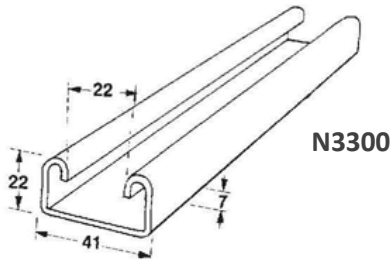


PRODUCT IMAGE	NAME
	HOSE CLAMP STAINLESS STEEL
	QUICK RELEASE HOSE CLAMP STAINLESS STEEL
	HEAVY DUTY T-BOLT HOSE CLAMP STAINLESS STEEL
	UNIBAND CLAMPING TOOL STAINLESS STEEL

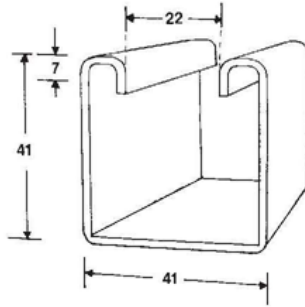
# Chain

IMAGE	NAME	LINKS	DIAMETERS (MM)
	STAINLESS STEEL CHAIN	REGULAR LINK	2, 3, 4, 5, 6, 8, 10, 12
	GALVANISED STEEL CHAIN	REGULAR LINK	3, 4, 5, 6, 8, 10, 13

**Available in metre lengths (cut to size)**



**N3300**



**N1000**

Available in 6 Metre Lengths

## Channel Carriages



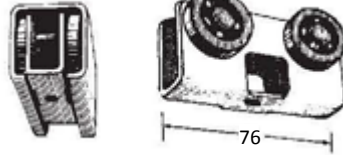
**N2749**

MAX Safe Work Load 23kg



**N2750**

MAX Safe Work Load 43kg



**N2950**

MAX Safe Work Load 240kg

## Couplers & Channel Nuts

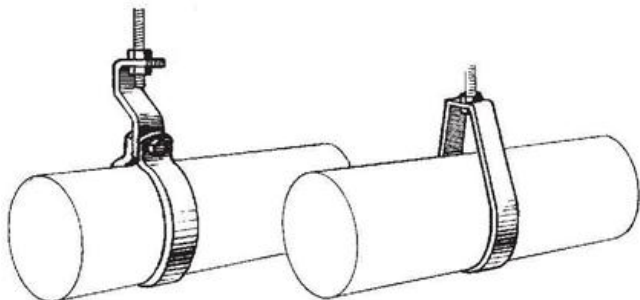
IMAGE	PRODUCT NAME	PRODUCT CODE(S)	SIZES	APPLICATIONS
	ROD COUPLERS/JOINERS	RJM6, RJM8, RJM10 RJM12, RJM16	M6, M8, M10 M12, M16	-
	CHANNEL NUTS	N3006, N3007, N3008, N3010	M6, M8, M10, M12	For N1000, N3300
	CHANNEL NUTS W/ SPRING	N1006, N1007, N1008, N1010	M6, M8, M10, M12	For N1000
	M16 CHANNEL NUTS W/ SPRING	N1012	M16	For N1000
	CHANNEL NUTS W/ SHORT SPRING	N4006, N4007, N4008, N4010	M6, M8, M10, M12	For N3300
	WIDE CHANNEL NUTS	N3010, N3012	M12, M16	For N1000
	ANGLE FITTINGS	N2095, N2097, N1436	75°, 60°, 45°	For N1000, N3300



### Hook Fittings for Nova Strut

PART NO.	PIPE O.D.	PART NO.	PIPE O.D.	PART NO.	CABLE DIA.	PART NO.	CABLE DIA.
N5-6	6mm	N5-86	86mm	N1600-34	34mm	N5028-1	28mm
N5-10	10mm	N5-89	89mm	N1600-42	42mm	N5030-1	30mm
N5-12	12mm	N5-92	92mm	N1600-48	48mm	N5032-1	32mm
N5-16	16mm	N5-95	95mm	N1600-60	60mm	N5034-1	34mm
N5-18	18mm	N5-98	98mm	N1600-76	76mm	N5036-1	36mm
N5-19	19mm	N5-102	102mm	N1600-89	89mm	N5038-1	38mm
N5-21	21mm	N5-105	105mm	N1600-102	102mm		
N5-22	22mm	N5-108	108mm	N1600-114	114mm		
N5-25	25mm	N5-111	111mm	N1600-152	152mm		
N5-27	27mm	N5-114	114mm	N1600-165	165mm		
N5-29	29mm	N5-117	117mm				
N5-32	32mm	N5-121	121mm				
N5-34	34mm	N5-127	127mm				
N5-35	35mm	N5-133	133mm				
N5-38	38mm	N5-139	139mm				
N5-42	42mm	N5-146	146mm				
N5-44	44mm	N5-152	152mm				
N5-48	48mm	N5-159	159mm				
N5-49	49mm	N5-165	165mm				
N5-51	51mm	N5-178	178mm				
N5-54	54mm	N5-191	191mm				
N5-57	57mm	N5-203	203mm				
N5-60	60mm	N5-219	219mm				
N5-64	64mm	N5-230	230mm				
N5-67	67mm	N5-241	241mm				
N5-70	70mm	N5-254	254mm				
N5-76	76mm	N5-305	305mm				
N5-79	79mm	N5-315	315mm				
N5-83	83mm	N5-324	324mm				

### Pipe Supports



Threaded Rod attachment to be ordered separately when required

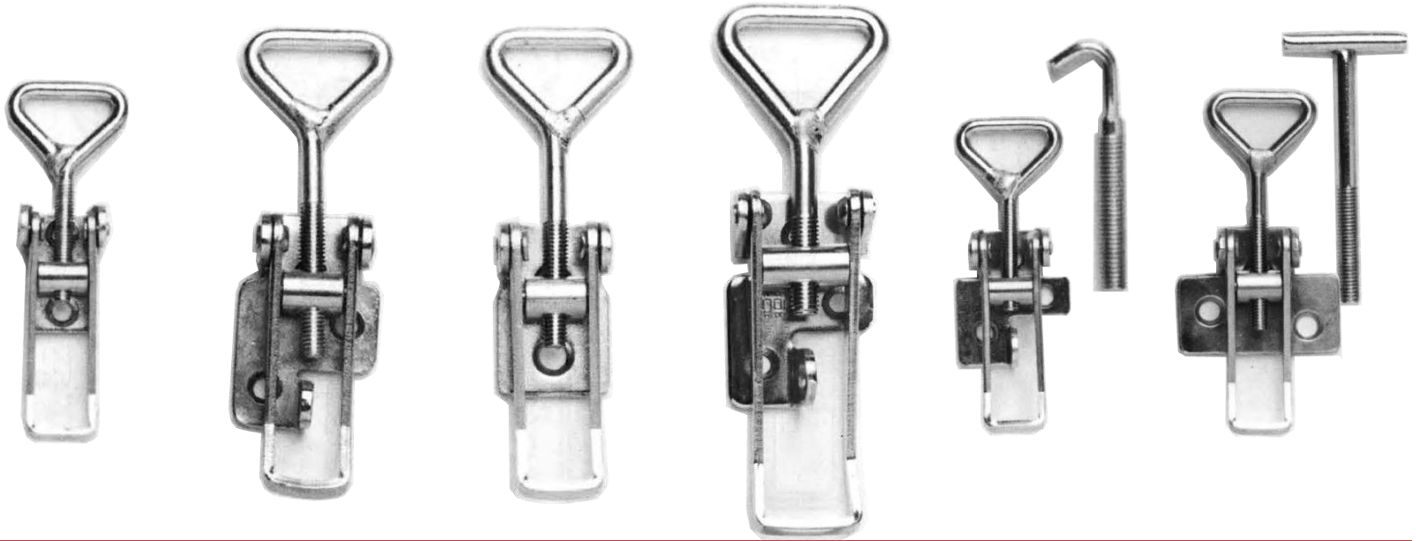
Light Duty Series **N712** Available from 12 to 165mm

Pear Shaped Series **N714** Available from 12 to 241mm



# Clamps

## TOGGLE OVER CENTRE CLAMPS



701S

702L

702S

703RL

701L

702

Available in Zinc Plated & Stainless Steel

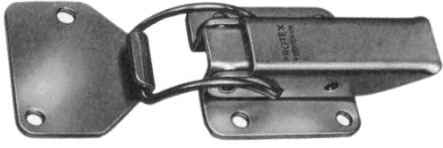

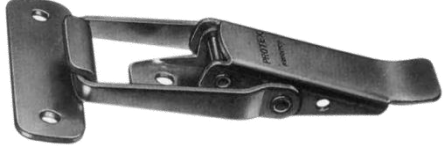


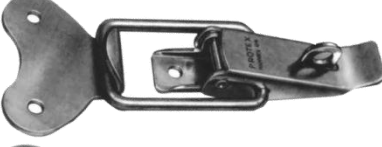






## Ojop Fasteners



Zinc Plated.  
Stainless Steel for 400 & 500 series on request.

- Ideal for Rugged Environments
- Shock Resistant
- Forged Steel
- Various Sizes



PRODUCT IMAGE	NAME	CODE – STAINLESS STEEL	CODE – ZINC PLATED
	27-623	On Request	00641
	50-546	On Request	00665
	30-593	On Request	00653
	27-633	00642	00643
	60-655	00666	00667
	30-570	00649	00650
	30-502	00647	00648
	40-663	00658	00659
	15-531	00631	On Request
	18-613	00632	00633
	29-569	00644	00645
	50-535	00663	00664

# Protex Catches & HANDLES CONTINUED



PRODUCT IMAGE	NAME	CODE – STAINLESS STEEL	CODE – ZINC PLATED
	27-1123	18786	18787
	29-619	On Request	00646
	18-1104	On Request	On Request
	20-505	00637	00638
	25-507	On Request	00640
	10-598	On Request	00630
	93-1044	On Request	On Request
	95-637	00343	00342
	62-678	On Request	On Request

# Handles



PRODUCT IMAGE	PRODUCT NAME	CODE(s)	INFO
	L LEVER HANDLES	#21396 – Key Locking #00478 – Padlockable #00687 – Non Locking	Finish: Chrome Plated Rear Fix & Front Fix Available Keyed Alike Available
	T LEVER HANDLES	#21332 – Key Locking #22010 – Non Locking	Finish: Chrome Plated Rear Fix & Front Fix Available Keyed Alike Available
	LATCH TONGUE	TODC	Pack: <b>10 Only</b> Material: <b>Zinc Alloy</b> Width: <b>13/16"</b> 5/16" Square Hole. Fixed on shank by steel grub screw. Both edges of tongue radiused for lead when used either right or left hand. Finish: <b>Natural Zinc</b> Overall Length: <b>3 1/2"</b> Height: <b>5/8"</b>

<b>LTH2</b>	<b>T80</b>

Available in Locking, Non-Locking, Right-Hand, Left-Hand & 180°.

<b>L80 – Locking</b>	<b>L80 – Non Locking</b>





Available in Right-Hand & Left-Hand, Tapped Hole & Drilled Hole, Front Fix & Back Fix



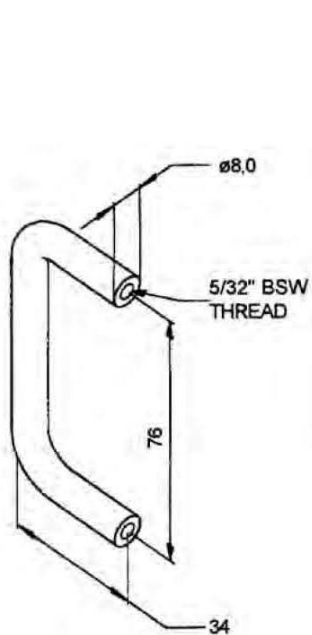
# Pull Handles



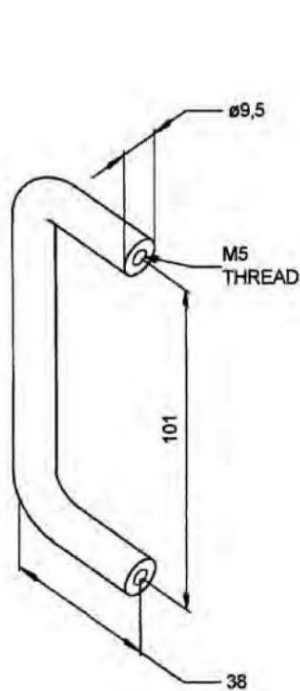
## Chrome Plated Pull Handles

PRODUCT IMAGE	PRODUCT NAME	CODE
	CHROME PLATED OFFSET DOOR PULL HANDLE WITH <b>102mm</b> HOLES CENTRES	1178
	CHROME PLATED DOOR PULL HANDLE WITH <b>102mm</b> HOLES CENTRES	1185
	CHROME PLATED DOOR PULL HANDLE WITH <b>130mm</b> HOLES CENTRES	1188
	CHROME PLATED 4 HOLE DOOR PULL HANDLE WITH <b>130mm</b> HOLES CENTRES	1197

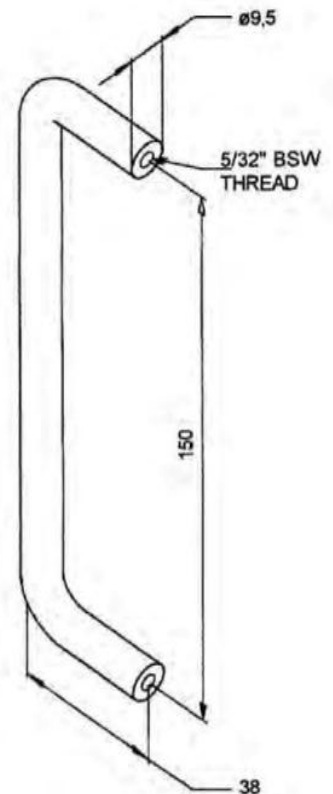
## Stainless Steel Pull Handles



A/DHAN/03/0



A/DHAN/04/0



A/DHAN/06/0

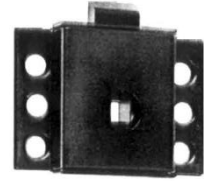
# Locks & Latches



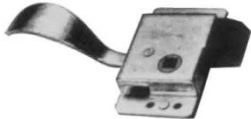
QUARTER TURN LATCH



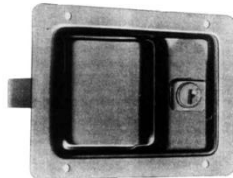
BUDGET LOCK



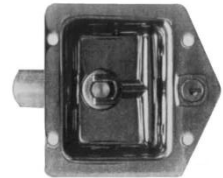
SLAM LATCH  
3/17332



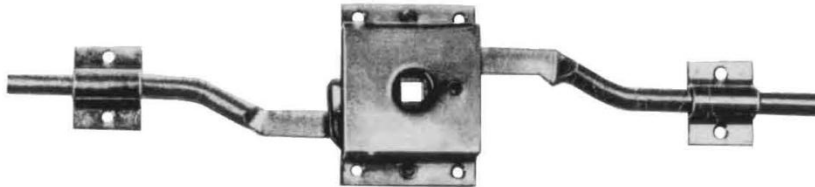
SLAM LOCK  
0891/001



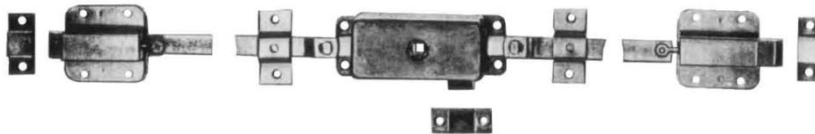
FLUSH LOCK – ST/ST  
9/00418



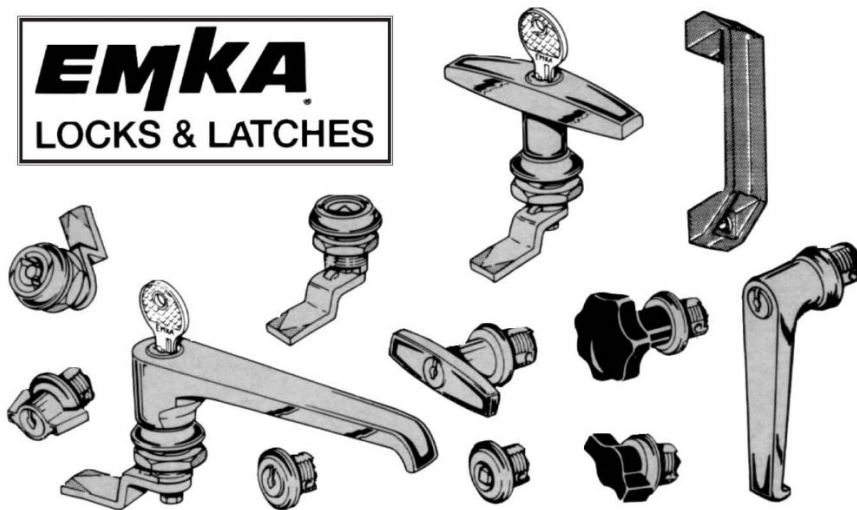
FLUSH LOCK DROP-T – ST/ST  
9/01501



THREE WAY SLAM LATCH  
3/18342



TWO WAY ROD LATCHES  
3/18794



SPANNER LOCKS

# Compression Locks





SMALL COMPRESSION LOCKS		LARGE COMPRESSION LOCKS	
CODE	FINISH	CODE	FINISH
19350	Black Powder Coated	14206	Chrome Plated
		14207	Black Powder Coated

# Flush Paddle Locks

FLUSH PADDLE LOCKS			RECESS T PLATES & HANDLES
CODE	FINISH	TYPE	INFO
00319	Zinc Plated	Non-Locking C/W Gasket	Various Styles available – locking & non-locking Handle is chrome plated, Pan is black powder coated and moulded gasket gasket comes as standard. Supplied as box set. Can be keyed alike or differently to suit requirements. Stainless Steel Available on request.
00318	Stainless Steel	Non-Locking C/W Gasket	
00315	Zinc Plated	locking C/W Gasket	
00317	Stainless Steel	Locking C/W Gasket	
On Request	Black Locking	C/W Gasket	



# Drop T Locks



PRODUCT IMAGE	PRODUCT NAME	CODE	INFO
	STANDARD DROP T LOCK	00323 – Stainless Steel	Available in Stainless Steel or Zinc Plated. Other variations available on request.
		47519 – Zinc Plated	
	WHALE TAIL FLUSH DROP T LOCK	15353 – Black, 3PL	Available in 304 Stainless Steel, Chrome Plated & Black. <b>3 Point Locking &amp; Auto Locking</b> versions available. Other variations available on request.
		51174 – Chrome, 3PL	
		50991 – Chrome, AL	

# Padlockable Handles

Vandal proof, IP65 rated, Anti-corrosive, Semi-flush, Dust Proof.

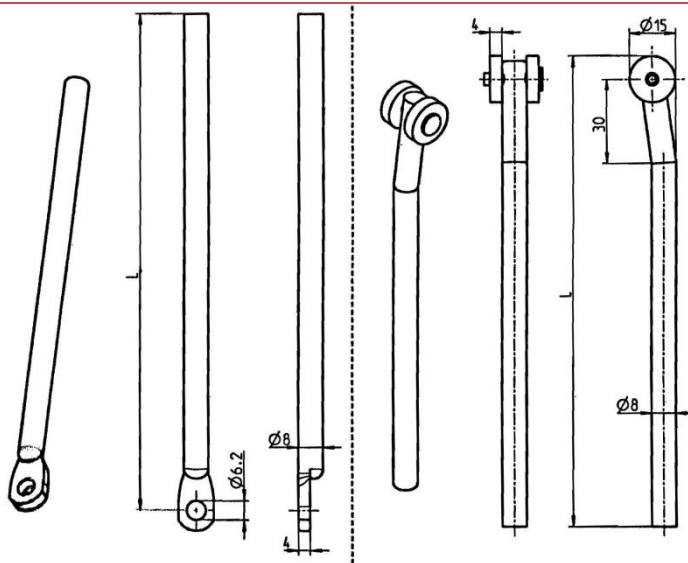
PRODUCT IMAGE	PRODUCT NAME	CODE	INFO		
			BASE	HANDLE	TYPE
	PADLOCKABLE SWING HANDLE	08134	Black	Chrome	10mm hasp, adjustable or fixed cam.
		08135	Chrome	Chrome	10mm hasp, adjustable or fixed cam.
		49744	Black PC	Chrome	Locking type – ½ Euro Profile
		08136	Stainless 316	Stainless 316	10mm hasp, adjustable or fixed cam.
		49743	Chrome	Chrome	10mm hasp, adjustable or fixed cam.
		08133	Black	Chrome	10mm hasp, adjustable or fixed cam.
	PADLOCKABLE L HANDLE	00478	<ul style="list-style-type: none"> <li>• Ideal for marine and food industry uses.</li> <li>• Bright polished finish.</li> <li>• Open or concealed fixing.</li> <li>• Prevents rust &amp; corrosion.</li> <li>• Visible reminder that locking has been carried out.</li> </ul>		



# Locking Rod Systems



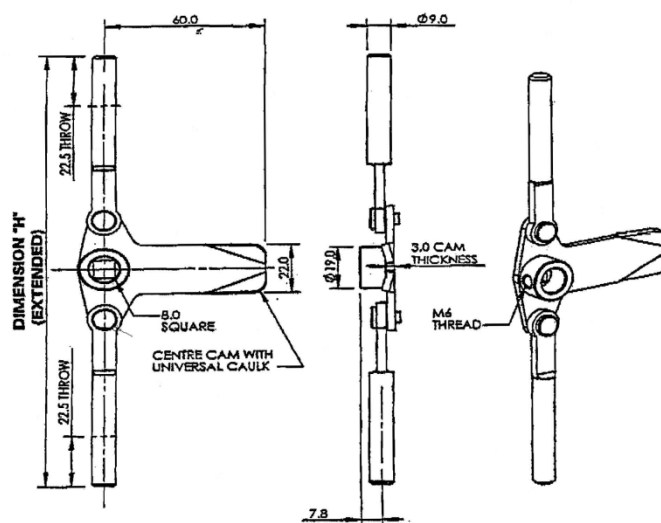
## LOCKING ROD SYSTEMS



Most rods available in ZP & SS (Grade 404).  
Available with and without rollers.

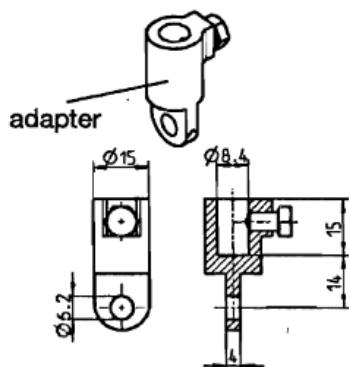
CODE	LENGTH (mm)	FINISH
00723	600	Stainless Steel
00721	600	Zinc Plated
00726	800	Stainless Steel
21416	800	Zinc Plated
00722	900	Zinc Plated
15663	1000	Stainless Steel
22018	1000	Zinc Plated
15664	1100	SS (ZP on request)
21397	1200	ZP (SS on request)

## 3 POINT LOCKING MECHANISM



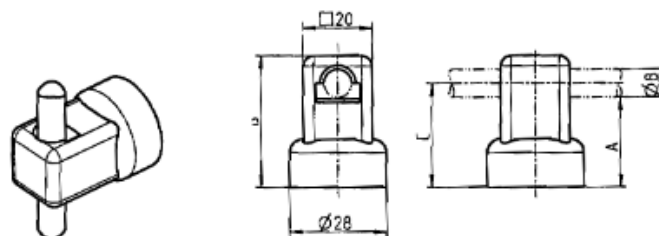
CODE	DOOR HEIGHT (mm)	HEIGHT (mm)
00460	2135	2175
15356	2440	2480

## ROD ADAPTERS / JOINERS



CODE	FINISH
00724	Stainless Steel
00725	Zinc Plated

## ROD GUIDES

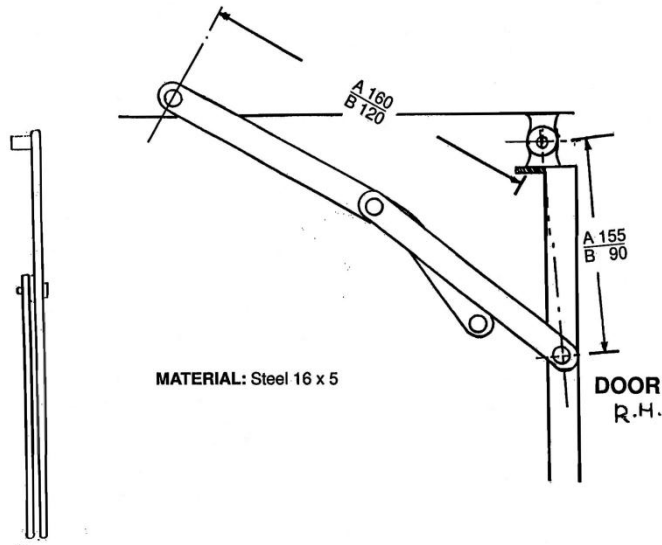


Polyamide black with acorn nut, mild steel & zinc plated.

CODE	DIMENSIONS	FOR WELD STUD
00718	20 x 32 x 24	M6 x 16
00719	26 x 38 x 30	M6 x 20



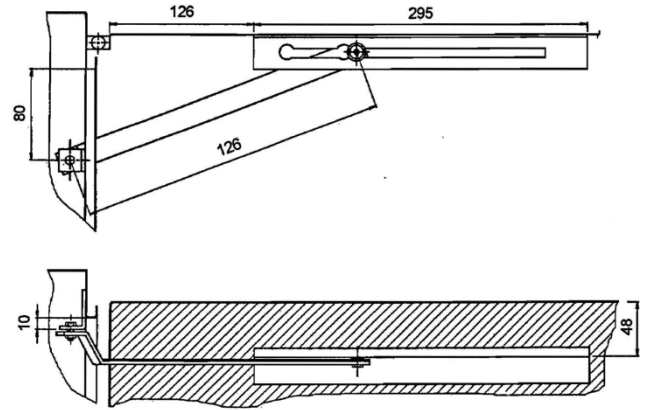
## DOOR & COVER STAY



MATERIAL: Steel 16 x 5

A = Door Stay, B = Cover Stay

## DOOR STAY



Can be used in left & right handed hinged doors.  
Holds the door open at 90 and 120 degrees.

CODE	LENGTH (mm)	HAND	FINISH
00760	240	Right Handed	Zinc Plated
00761	240	Left Handed	Zinc Plated
17924	150	Right Handed	Zinc Plated
17923	150	Left Handed	Zinc Plated

CODE	HAND	FINISH
00763	Left Handed	Stainless Steel & Zinc Plated
00764	Right Handed	Stainless Steel & Zinc Plated

## MINIATURE SUPPORT STAY & BRACKET



Smaller section, suitable for top & side opening cabinets.  
Uses "star wheel" to automatically lock when extended.  
Requires slight further extension to free the mechanism.

CODE	EXTENSION (mm)
47144	86.5

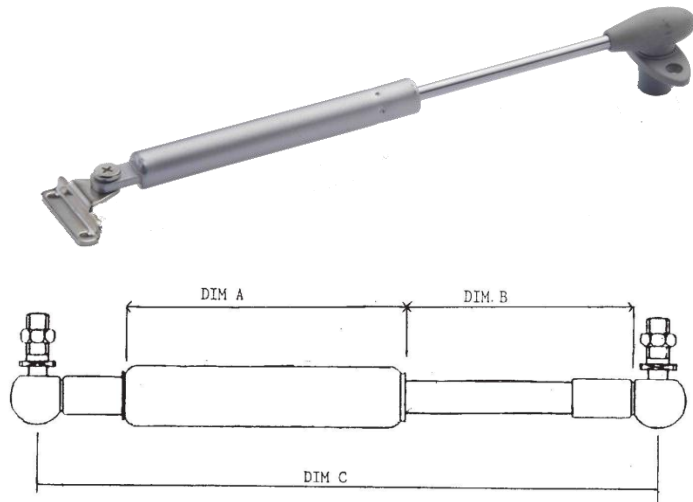
## SUPPORT STAY – SAFETY CATCH RELEASE



Operation: stay is extended slightly & catch is released by hand.  
Length between fixing centres:  
**292mm (closed) & 465mm (open).**

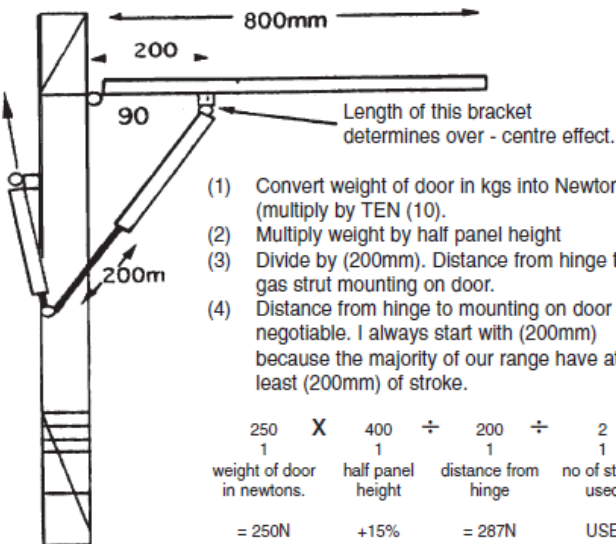
CODE	CLOSED (mm)	OPEN (mm)	BRACKETS
17919	285	470	2
47150	340	585	On Request

# Gas Struts / Gas Supports



## Basic Procedure to determine correct force of Strut(s).

Typical example: Door size 800 high x 1000 wide. Weight 25 kilo



- (1) Convert weight of door in kgs into Newtons (multiply by TEN (10)).
- (2) Multiply weight by half panel height
- (3) Divide by (200mm). Distance from hinge to gas strut mounting on door.
- (4) Distance from hinge to mounting on door is negotiable. I always start with (200mm) because the majority of our range have at least (200mm) of stroke.

250	X	400	÷	200	÷	2
weight of door in newtons.		half panel height		distance from hinge		no of struts used
= 250N		+15%		= 287N		USE
1		1		1		2x
exact force required		safety margin		FORCE		300N-505

Newton Force	DIM A	DIM B	DIM C
50N	95	60	195
100N	95	60	195
150N	110	85	240
150N	130	70	225
150N	130	70	240
150N	250	210	505
150N	300	240	580
200N	150	125	315
200N	170	100	305
200N	250	210	505
200N	250	210	505
250N	150	125	315
250N	245	200	480
250N	250	210	505
250N	250	210	505
280N	380	250	665
300N	320	275	630
350N	220	150	425
350N	225	160	450
350N	290	215	565
350N	295	250	590
370N	205	150	395
380N	260	205	505
400N	250	210	505
400N	250	210	505
400N	445	300	810
430N	305	200	545
435N	445	325	825
450N	290	250	600
500N	260	205	510
500N	270	230	540
600N	270	230	540
600N	300	215	580
600N	420	365	825
600N	445	325	825
620N	270	200	530
680N	270	200	530
960N	270	200	530
1000N	290	250	585
1200N	370	300	700
1300N	360	300	700

# Door Holds & Buffers

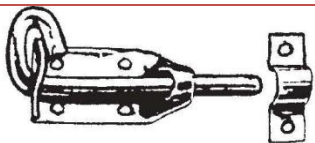
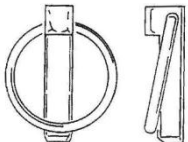
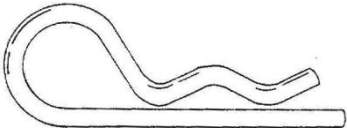
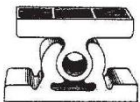
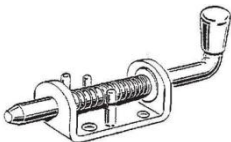
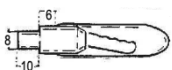
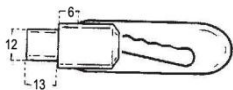
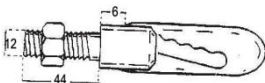
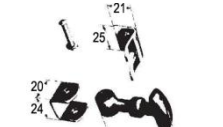
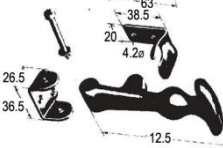

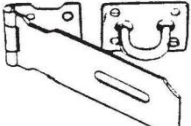


PRODUCT IMAGE	NAME	CODE	MORE INFO
	RUBBER DOOR HOLDER	0666/001 – Female Only 0666/002 – Male Only	Hard Rubber
	DOOR RETAINERS	6030/216 – Female Only 6030/215 – Male Only	Available in Chrome Plated & Brass finishes.
	CONTAINER OR VEHICLE HOLDERS	0550/001	
	STAINLESS DOOR HOLDER	ART3351	
	CATCH PLATE	0551/001	Available in metric and imperial sizes.
	STAINLESS CATCH PLATE	ART337A	
	ROUNDED BLACK RUBBER PROFILES	2511/001	50mm x 80mm x 200mm
	SQUARED BLACK RUBBER PROFILES	2503/001	50mm x 50mm x 200mm



# Catches



PRODUCT IMAGE	NAME	CODE	INFO
	PADBOLTS	Available On Request	Galvanised, Zinc Plated, Stainless Steel.
	LYNCH PINS	Available On Request	Shank Length 40mm 4.5mm <b>B4</b> 6mm <b>B2</b> 8mm <b>B3</b> 11mm <b>B6</b>
	R CLIPS	Available On Request	2mm <b>B8</b> 2.5mm <b>B9</b> 3mm <b>B10</b> 4mm <b>B12</b> 6mm <b>B13</b> 7mm <b>B14</b>
	NYLON DOOR CATCHES	Available On Request	-
	840 SPRING BOLTS	Available On Request	Stainless Steel
	BABY ANTI-LUCE	3274/001	-
	ANTI-LUCE	3232/001	-
	SCREWED ANTI-LUCE	3275-2	-
	SMALL BONNET CATCH	6020154	-
	LARGE BONNET CATCH	6020023	-
	CHROME BONNET CATCH	7/10063	Chrome Plated
	HASP & STAPLE	Available On Request	Galvanised, Zinc Plated, Stainless Steel.

# Latches





PRODUCT IMAGE	NAME	CODE
	TWIN FLAT FASTENER	33213
	ELITE MINI FASTENERS BENT & STRAIGHT	33198 – Bent 33201 – Straight

CODE	LABEL	PART NAME
33151	C.L 1	Actuating Handle
33158	C.L 2	Cam Keeper
33159	C.L 3	Cam Arm
33160	C.L 4	Pipe Bearing
33162	C.L 6	Connecting U-Link
33163	C.L 7	U-Link Rivet
33164	C.L 8	Locking Stay
33165	C.L 9	Locking Plate
33152	C.L 10	Locking Plate Bush
33153	C.L 11	Retaining Collars

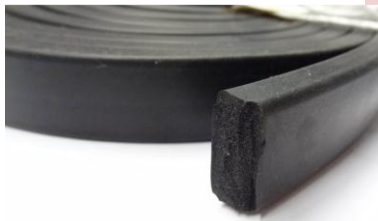



**ELITE CAM LOCK**  
CODE: 33150

# Tapes



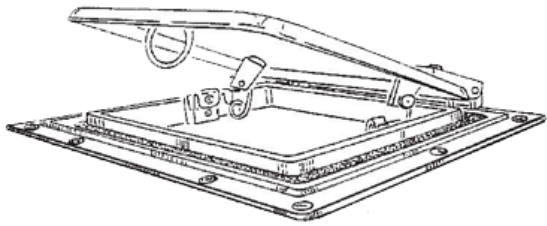

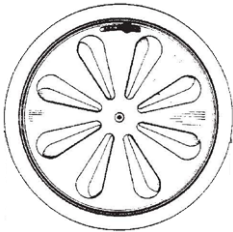
PRODUCT IMAGE	NAME	THICKNESS (mm)	WIDTH (mm)	INFO
	SINGLE SIDED SEALING TAPE	3, 6, 9, 12	9 - 50	Low density synthetic rubber conforming to SBE41. With or without flame bonded long life acrylic adhesive. <b>Available in full rolls only.</b> Application: High temperature seals around lamps, electrical gear, engine management systems.
	DOUBLE SIDED SEALING TAPE	0.8, 1.14, 1.6	6 12 18	Black, high performance polyurethane mounting tape with long life UV stable acrylic adhesive. <b>Available in full rolls only.</b> Application: Body side mouldings – automotive emblems, nameplates and other areas needing high bond strength.

# Rubbers

PRODUCT IMAGE	NAME	SIZE (mm)	INFO
	BULLNOSE & SPONGE EXTRUSION RUBBER	1.5mm X 25mm to 10mm X 100mm	Available Cut-To-Size and By-The-Roll (30 metres).
	EDGE PROTECTION RUBBER	<b>TYPE 1</b> – to suit 1-2mm thick material	SKU# 11045 (per metre) SKU# 11046 (per roll)
		<b>TYPE 2</b> – to suit 1-2mm thick material	SKU# 11047 (per metre) SKU# 11048 (per roll)
	PINCHWELD RUBBER	-	Includes V and U type rubber. Available Cut-To-Size and By-The-Roll (30 metres).
	WINDOW RUBBER	To suit 2-4mm wide sheet	SKU# 11069 (per metre) SKU# 11070 (per roll)
		To suit 3-5mm wide sheet	SKU# 11071 (per metre) SKU# 11072 (per roll)
		To suit 5-6mm wide sheet	SKU# 20715 (per metre) SKU# 20716 (per roll)

# Vents



PRODUCT IMAGE	NAME	CODE
	SOLID TOP VENTILATOR	0623/001 (8½" X 6½") 0623/003 (8" X 4") 0623/002 (11" X 8")
	PLASTIC DOMED ROATRY VENT	UESRV11W
	INNER VENT (160mm diameter to suit a 130mm diameter aperture)	33181/P202 – Plastic Vent 33182/Z202 – Aluminium Vent

# Dockslide

PRODUCT IMAGE	AVAILBLE LENGTHS (mm)	INFO
	200 400 600	<p>Can be fitted in 5 min, changed in 2 min. Field tested for durability.</p> <p>With this product you will save tons of money and time in fitting and changing.</p> <p>Leave the mount in place, just replace the rubber!</p>





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**Zenolite**  
*A Splash of Living Colour*

**rotacaster**  
*the ultimate in maneuverability*

**KINCROME**   
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**FUTURE WOOD**  
*reaching for a sustainable world*

**OTHER**







# BOSCH

- Cordless System Tools
- Impact Drills & Drivers
- Rotary & Demolition Hammers
- Grinders & Metal Working Tools
- Bench Mounted Tools
- Pneumatic Nailers
- Sanders, Planers & Routers
- Saws & Cutting Tools
- Dust Extractors, Glue & Heat Guns
- Digital Measuring Tools



Nothing but **HEAVY DUTY.**

- Copper Tube Cutters
- Sub-Compact Drivers
- Impact Drivers
- Compact Drivers
- Compact Impact Drivers
- Heavy Duty Hammer Drills
- Hammer Drills
- Die Grinders
- Jigsaws
- Angle Grinders
- ... & more





- Screwdrivers & Fasteners
- Socket Sets & Accessories
- Spanners & Spanner Sets
- Drilling & Boring
- Pliers & Wrenches
- Toolboxes & Storage
- Tool Kits & Sets
- Striking, Prying, Clamping
- Air & Power
- Cut, Saw & Scrape



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- Air & Power
- Cut, Saw & Scrape



# Plastic Welding Tools



**BUY  
(OR)  
HIRE DAILY**



Product Name	Triac ST					Jot Jet S		
Voltage (V~)	42	100	120	200	230	100	120	230
Power Consumption (W)	1000	1400	1600	1400	1600	460	460	460
Frequency (Hz)	50/60					50/60		
Temperature (°C)	20 - 700 steplessly controlled					20 - 600 steplessly controlled		
Air Flow (l/min)	max. 320					20 - 80 steplessly adjustable		
Pressure Stat (Pa)	ca. 3000 (30 mbar) after 24hr operating time					max. 1600 (16 mbar)		
Emission Level (LpA(dB))	65					59		
Size (mm)	340 X 90, handle ø 56					235 X 70, handle ø 40		
Weight (g)	1300 with 3m cord					530 with 3m cord		
Approval Mark	CCA Certified					CCA Certified		

## Heavy Duty Plastic Extrusion Welding Tools



Product Name	Fusion 3	Fusion 3C	Fusion 2
Output (HDPE)	1.8 – 3.6	1.8 – 3.6	1.3 – 1.8
Material	HDPE, PP	HDPE, PP	HDPE, PP
Wall Thickness (mm)	8 – 25	8 – 25	6 – 15
Welding Rod (mm)	3 – 4 / 4 – 5	3 – 4 / 4 – 5	4
Weight (kg)	7.2	6.9	5.9
Length (mm)	690	588	450
Voltage (V~)	230	230	230
Screw Extruder	yes	yes	yes
Container Construction	✓✓	✓✓	✓✓
Pipeline Construction	✓✓	✓✓	✓✓
Landfills/Civil Engineering	✓✓	✓	○
Brushless Blower	no	no	no
Remarks	2	2	2

✓✓ = very suitable, ✓ = suitable, ○ = unsuitable








## Hot Air Plastic Welding Guide

TYPE	NAME	COMMON NAME	WELD TYPE	DOMESTIC USAGE	AUTO USAGE	BURN TEST
PVC	POLYVINYL CHLORIDE		300-350	RAIN GUTTERS	NIL	SELF EXTINGUISH, YELLOW SMOKEY FLAME, SMALLEST OF HYDROCHLORIC ACID
PR	POLYETHYLENE	POLYTHENE	280-300	CUTTING BOARDS KITCHEN WARE	WASHER BOTTLES, GUARD PANELS	BURNS WITH YELLOW FLAME, BLUE TRACE AT BASE, DRIPS, SMELLS OF CANDLE WAX WHEN EXTINGUISHED
PP	POLYPROPYLENE		280-300	PAINT ROLLER TRAYS, DRAINS S- BENDS	BATTERY, FAN SHROUD HEATER BOX, SOME TRIM	BURNS WITH YELLOW FLAME, BLUE TRACE AT BASE, DRIPS, SMELLS OF BURNT OIL WHEN EXTINGUISHED
ABS	ACRYLONITRILE BUTADIENE STYRENE		350	TELEPHONES	GRILLS, PARK & TAIL LIGHT BODIES, TRIM PANELS	BURNS WITH ORANGE FLAME, SOOT FLAKES. STRONG SWEET SMELL WHEN EXTINGUISHED
PC	POLYCARBONATE	MAKROLON (T) LEXAN (T)	350	BABY BOTTLES, SECURITY GLAZING	SOME TAIL LIGHT LENSES	BURNS WITH DIFFICULTY. SELF EXTINGUISHING. ORANGE FLAMES, BLACK SMOKE, FRUITY ODOUR DIFFICULT TO IGNITE. YELLOW FLAME, NOT SELF EXTINGUISHING.
PA	POLYAMIDE	NYLON (T)	400		SOME SPOILERS, USUALLY BEARINGS & GEARS ETC	MELTS TO FREE FLOWING LIQUID WHICH CONTINUES TO BURN. SMELLS OF BURNT HAIR
TRUP	THERMOPLASTIC POLYURETHANE		350		SPOILERS, BUMPER COVERS, WHEEL ARCH MOULDS	BURNS WITH DIFFICULTY. YELLOW FLICKERING FLAME, DRIPS. SWEET SMELL
PMMA	POLYMETHYL METHACRYLATE (ACRYLIC)	PERSPEX (T) PLEXIGLASS (T)	350		TAIL & PARK LIGHT LENSES, WEATHER SHIELD	BURNS READILY, NOT SELF EXTINGUISHING, YELLOW FLAME WITH CLEAR EDGES. FRUITY ODOUR WHEN EXTINGUISHED
PP/EPP M	POLYPROPYLENE/ ETHYLENE PROPYLENE DIENE MONOMER		300		BUMPER COVERS, SPOILERS	BURNS READILY, YELLOW SPLUTTERING FLAME WITH BLUE TRACE AT BASE. SMELLS OF BURNING OIL WITH TRACE OF RUBBER



PRODUCT IMAGE	PRODUCT NAME	DESCRIPTION
	THREAD INSERTS	<p>The recoil system consists of precision inserts, quality high speed taps and easy to use installation tools which are used for repairing damaged screw threads or creating strong new threads. Recoil helically wound screw-thread inserts are generally manufactured from Type 304 (18-8) stainless steel wire cold rolled into a diamond shaped cross section. Recoil inserts can be supplied in other materials such as Inconel, Nimonic 90, Phosphor Bronze and Type 316 stainless steel.</p> <p>Recoil inserts are available in either standard free running form or screw lock type which provides an internal locking feature. Inserts are manufactured for every thread form including UNC, UNF, BSC, BSW, BSP, BSF, BA, NPT and ISO Metric thread sizes.</p>
	THREAD REPAIR KITS	<p>Alcoa Fastening Systems has developed a full range of Recoil thread repair kits covering the majority of sizes commonly in use today. Recoil Kits contain a HSS tap, installation tools, precision stainless steel inserts and instructions in a sturdy reusable container. recoil has a full range of problem solving repair kits available in single or multiple size format.</p>
	INSTALLATION TOOLING	<p>Alcoa Fastening Systems also offer a selection of work arms and power tooling, including high efficiency pneumatic and electric installation tools for in-line production or repetitive maintenance solutions. A range of associated tooling is available to facilitate insert installation, including manual installation tooling and manual, spring and pneumatic operated tang breakoff tools.</p>

## Where to use Recoil Inserts Repair

When you encounter a damaged thread Recoil offers:

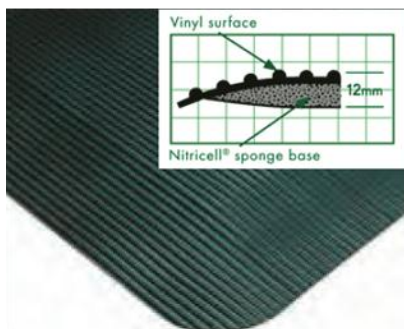
- Quickest and simplest method of repair to stripped or damaged threads.
- A superior thread with great holding power.
- Most cost effective method of repair.
- Returns thread to the original size
- Generally stronger than the original female thread.



# Safety Mats



PRODUCT IMAGE	NAME	DESCRIPTION
	MULTI GUARD	<p>Multi-Guard has flexible rubber "fingers" to effectively remove dirt, sand and snow from footwear. Multi-guard is the first step to keeping your entrances clean during the worst weather conditions. Easy to clean, just hose off. Ideal for high traffic entrances. A very popular mat for a variety of uses.</p> <p><b>Colour:</b> Black</p> <p><b>Sizes:</b> 600mm x 800mm, 800mm x 1000mm, 900mm x 1500mm.</p>
	COMFORT FLOW	<p>Comfort Flow is light for easier handling and is fully launderable. Ideal for wet or dry areas. It provides excellent anti-fatigue properties for added employee comfort. Constructed of 100% high density closed cell nitrite rubber cushion, it is far superior in grease and oil resistance. Its low profile and slip resistant surface reduces slip and fall accidents. The non-skid backing keeps the mat in place.</p> <p><b>Specs:</b> Wet, dry or greasy areas. 11mm thick low-profile edges. 2 year warranty.</p> <p><b>Colour:</b> Black</p> <p><b>Sizes:</b> 600mm x 900mm, 900mm x 1500mm, 900mm x 3000mm, 1200mm x 1800mm.</p>
	WATERHOG CLASSIC	<p>Tough, long-lasting and proven for Australian conditions. No other mat in the industry traps water and dirt so effectively. Rubber reinforced face nubs and its "waffle" design provides crush-proof scraping action. The raised rubber water dam traps dirt and water keeping it off carpets, tiles and floors. Waterhog Classic is ideal for most applications inside or out. The unique design and style makes it revolutionary.</p> <p><b>Colour:</b> Bluestone, Charcoal, Dark brown, Evergreen, Red/Black.</p> <p><b>Sizes:</b> 600mm x 900mm, 900mm x 1500mm, 900mm x 3000mm, 1200mm x 1800mm, 1200mm x 2400mm, 1200mm x 6000mm, 1800mm x 2400mm, 1800mm x 3600mm, 1800mm x 6000mm, Per meter cut to length x 1200mm or 1800mm wide.</p>
	24/SEVEN HOLES	<p>24/Seven Holes is named for its ability to work 24 hours a day, 7 days a week to keep your employees comfortable and is exceptional value. This 15mm thick single workstation mat has a hidden interlocking system designed to connect on all four sides making it perfect for covering large areas. For easy trolley access and extra employee safety, attach the 75mm wide safety bevelled edge. Available in two exceptionally resilient and durable rubber compounds, 24/Seven Holes offers flexibility and comfort at outrageously economical prices. If you have special contours or a large size ask about our customised mats.</p> <p><b>Colour:</b> Black</p> <p><b>Sizes:</b> 900mm x 900mm – mat, 75mm x 990mm – bevelled edge</p>
	24/SEVEN SOLID	<p>24/Seven Solid is for those who want to use a moulded rubber mat rather than a SpongeCote in dry areas. 24/Seven Solid is of unparalleled value. A substantial solid surface anti-fatigue mat, it's exceptionally resistant and designed for comfort. Available in a single 900mm x 900mm workstation size, 24/Seven Solid is modular with a hidden interlocking, perfect for covering large areas without extra connectors. It's available in a Nitrite formulation for areas exposed to chemical spills or caustic cleaning agents. Use the 75mm wide moulded safety borders for easy trolley access.</p> <p><b>Colour:</b> Black</p> <p><b>Sizes:</b> 900mm x 900mm - mat, 75mm x 990mm - bevelled edge</p>



KLEENSWEEP  
SPONGECOTE

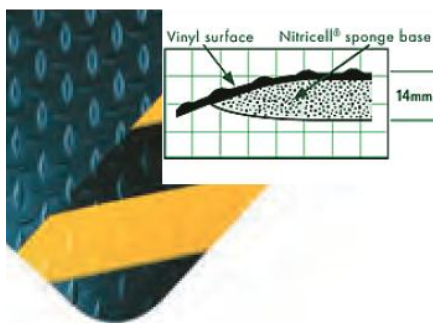
KleenSweep SpongeCote is known for its round-rib surface pattern, easy to maintain in heavy use areas. This flexible vinyl surface adds to the overall comfort of the mat while also providing good resistance to many common industrial chemicals and solvents. KleenSweep SpongeCote, with its nitricell sponge base is a great tool for reducing fatigue in heavy use environments.

**Specs:** All dry work areas. Safety bevelled edges. 12mm thick. 3 year conditional warranty.

**Colour:** Black

**Extra Info:** Compression - 8mm @ 35 PSI per ASTM D575, Tabor Abrasion - < 1% lost @ 1000 cycles per Fed Std 193, Flammability - "A" Rating per MVSS 302.

**Sizes:** 600mm x 900mm, 900mm x 1500mm, 600mm x 22.8M roll, 900mm x 22.8M roll, 1200mm x 22.8M roll, Per meter cut to length x 600mm, 900mm or 1200mm wide.



SAFETY ALERT  
SPONGECOTE

Safety Alert SpongeCote is the most popular anti-fatigue mat in the industry because no other offers such a complete package of exceptional comfort, long life, and a high tech industrial image. Its exceptionally resilient Nitricell sponge base defines the mat by providing true comfort, enhancing productivity, and reviving morale all while relieving fatigue throughout the day. Safety Alert's safety-engineered surface adds traction and durability to the mat, and lends itself to heavily trafficked areas. As an added bonus mats can be customised in virtually any width or dimension to fit even the most unique work area.

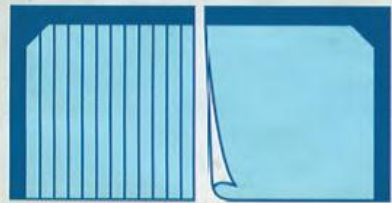
**Specs:** All dry work areas. Safety bevelled edges. 14mm thick. 3 year conditional warranty.

**Colour:** Black, Black/Yellow, Black/Chevron Safety Yellow

**Extra Info:** Compression - 10mm @ 35 PSI per ASTM D575, Tabor Abrasion - < 1% lost @ 1000 cycles per Fed Std 193, Flammability - "A" Rating per MVSS 302.

**Sizes:** 600mm x 900mm, 900mm x 1500mm, 600mm x 22.8M roll, 900mm x 22.8M roll, 1200mm x 22.8M roll, Per meter cut to length x 600mm, 900mm or 1200mm wide.





# COLD SHIELD

## *PVC Stripcurtains*

Endorsed by  
HACCP Australia  
Certificate No. PE-307-CS-01

RETAIL

PHARMACEUTICAL

FOOD PROCESSING

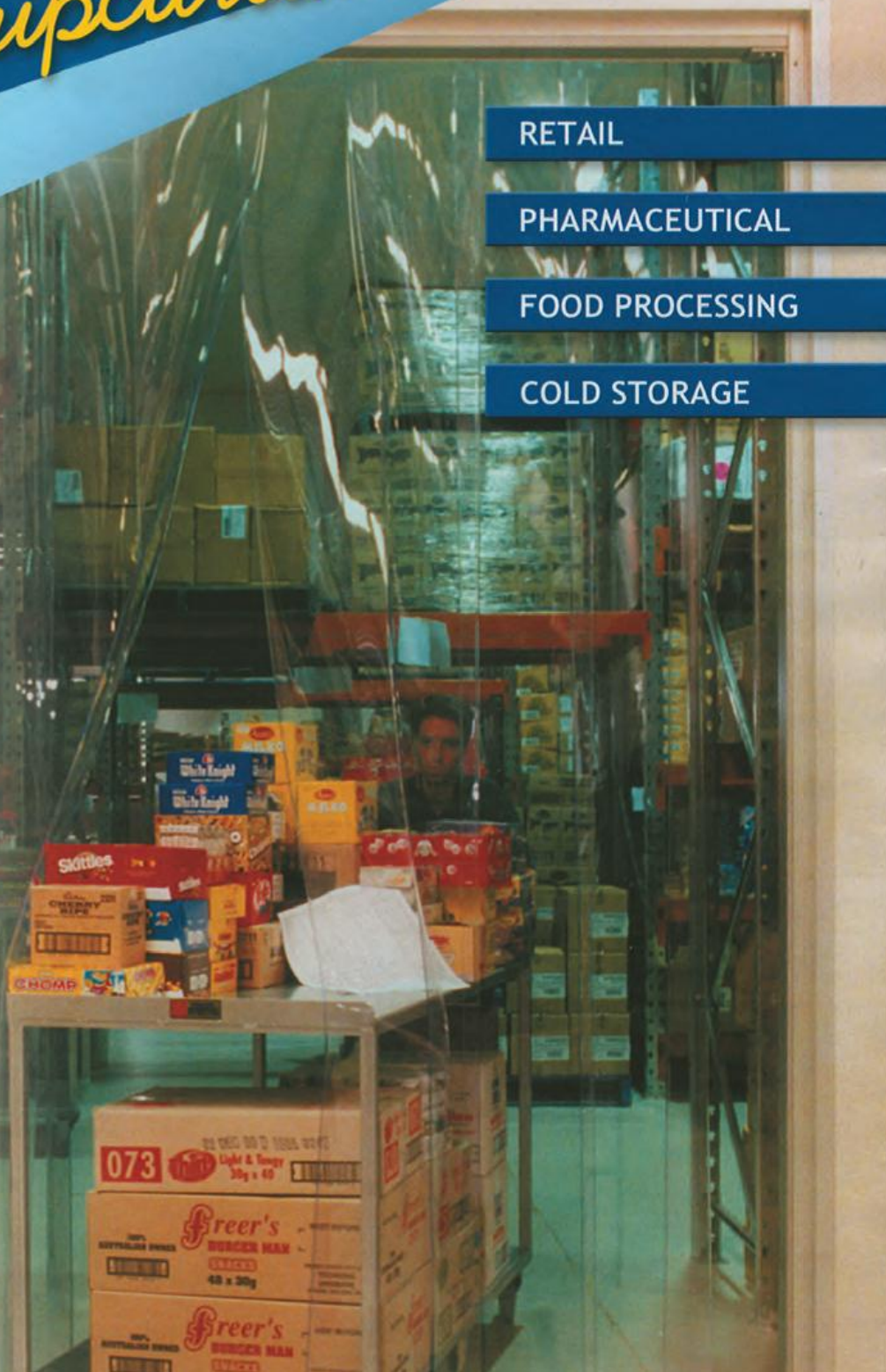
COLD STORAGE



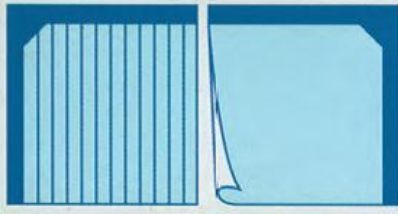
HYGIENE

HAZARDOUS AREAS

TEMPERATURE ZONING







# COLDSHIELD

## FLEXIBLE PVC DOORS



- TEMPERATURE ZONING
- PRIVACY SCREENING
- NOISE CONTROL
- STERILE AREAS
- CLEAN ROOMS
- HAZARDOUS AREAS

- LABORATORIES
- HEALTH CARE
- LAUNDRIES
- FOOD PROCESSING
- THERAPEUTIC GOODS
- EMERGENCY SERVICES

# Convex Safety Mirrors



PRODUCT IMAGE	PRODUCT NAME	CODE	SIZE	DESCRIPTION
	X-SERIES HEAVY DUTY OUTDOOR MIRROR	STVXI-600	600mm Round	An extremely durable weatherproof mirror suitable for road and pedestrian traffic applications, distribution depots and parking areas. Impact-resistant acrylic face with high-visibility orange visor. Clamps onto a 75mm O/D post (post optional extra) or smaller optional inserts
		STVXI-800	800mm Round	
		STVXI-1000	1000mm Round	
	SS-SERIES HEAVY DUTY OUTDOOR STAINLESS STEEL MIRROR	STVSS-600	600mm Round	An almost unbreakable all weather mirror engineered to withstand vandalism and adverse industrial conditions. Suitable for road and rail safety, mining applications and isolated locations. Convex face is highly-polished stainless steel with high visibility orange visor. Clamps onto a 75mm outside diameter post (post optional extra) or smaller optional inserts.
		STVSS-800	800mm Round	
		STVSS-1000	1000mm Round	
	A-SERIES EASY FIX ECONOMY MIRROR	STVAI-300	300mm Round	A lightweight indoor mirror for commercial, retail and institutional use. Unique bracket and non-slip joints provide simple and extremely rigid support. Use on walls, ceilings and pelmets. Fully adjustable to any angle.
		STVAI-450	450mm Round	
		STVAI-600	600mm Round	
		STVAI-760	760mm Round	
		STVAI-305	300mm x 500mm Rectangular	
	T-SERIES STANDARD MIRROR WITH ARTICULATED ARM	STVTI-300	300mm Round	A strong indoor mirror for all retail, commercial and light industrial applications. Extending arm projects up to 450mm or lies flat against wall or ceiling. A versatile, high quality mirror with fully covered back. Easy 2-screw fixing. Fully adjustable to any angle.
		STVTI-450	450mm Round	
		STVTI-600	600mm Round	
		STVTI-760	760mm Round	
	D SERIES CEILING DOME	STVDI-600	600mm Dome	An economical, lightweight alternative where general surveillance of a broad area is required, or central observation is preferred. Full domes may be suspended on chains or fastened directly to ceiling and provide a 360° view. Half domes provide a 180° view and corner domes a 90° view.
		STVDI-900	900mm Dome	
		STVDI-360	600mm ½ Dome	
		STVDI-450	900mm ½ Dome	
		STVDI-180	300mm Corner	
		STVDI-270	450mm Corner	





IMAGE	PRODUCT NAME	DESCRIPTION
	<b>Instant Adhesive 401</b> Ultra fast	Rapid bonding of metal, plastic, rubber, cork, wood, paper, leather, fabric, etc. Unique chemistry ensures rapid cure - even on difficult to bond substrates. Low viscosity assists application and dispensing. <i>Temp range -55°C to +80°C.</i>
	<b>Instant Adhesive 454</b> Instant Adhesive Gel	Rapid bonding of metal, plastic, rubber, cork, wood, paper, leather, fabric, etc. Unique chemistry ensures rapid cure - even on difficult to bond substrates. Superior gap filling ability. No run, no drip - even on vertical surfaces. <i>Temp range -55°C to +80°C.</i>
	<b>Loctite 55</b> Pipe Sealing Cord	Outdates paste, hemp and tapes. Fast, clean, definite first time seal. Fittings can be "backed-off" for alignment. Nothing new to learn. Approved for potable water. A6A approved, N°8638 up to 2400kPa. Use on plastic and metal fittings. <i>Use with temperatures up to +150°C.</i>
	<b>Thread Locker 243</b> Super Nut Lock	Correct strength for locking nuts under most operating conditions. Prevents loosening due to vibration or shock loading. Seals threads against leakage of fluids or gases. Seals threads against corrosion in aggressive chemical or marine environments. Use to prevent or remedy backlash in keys or splines. When required, use Primer 7471. <i>Temp range -55°C to +150°C.</i>
	<b>Thread Locker 262</b> Super Stud Lock	Heavy duty product for studs and for threadlocking in severe operating conditions. Prevents loosening due to vibration or shock loading. Seals threads against leakage of fluids or gases. Seals threads against corrosion in aggressive chemical or marine environments. When required, use Primer 7649. <i>Temp range -55°C to +150°C.</i>
	<b>Thread Locker 290</b> Super Wick-In	Designed for post assembly operations. Seals against leakage and corrosion. Ideal for adjustment screws. Low viscosity allows sealing of porous welds and casting porosity. When required, use Primer 7649. <i>Temp range -55°C to +150°C.</i>
	<b>Thread Sealant 567</b> Master Pipe Sealant	Instant sealing grade containing PTFE. Seals and locks threaded fittings against the effects of vibration, shock and thermal cycling. Prevents thread corrosion and thread galling. Seals mild steel, stainless, monel and aluminium. Copper and brass fittings at cold water temps. AGA approved, N°3207 up to 1050kPa (150psi). When required, use Primer 7649. <i>Temp range -55°C to +200°C.</i>
	<b>Thread Sealant 569</b> Hydraulic Sealant	Special grade for sealing and locking fittings on hydraulic, pneumatic and fuel systems. Contains no particles to foul fine valves and orifices. Suitable for high pressure hydraulic systems. AGA approved, N°3375 up to 1050kPa (150psi). When required, use Primer 7471. <i>Temp range -55°C to +150°C.</i>
	<b>Retaining Compound 609</b> High Strength	High strength for bearings, pulleys, gears, sprockets, sleeves, pins, bushes and couplings. Excellent load transmission capabilities. Use for parts requiring dismantling for maintenance or repair. Prevents fretting corrosion. Seals joints. When required, use Primer 7471. <i>Temp range -55°C to +150°C.</i>





IMAGE	PRODUCT NAME	DESCRIPTION		
	<b>Retaining Compound 680</b> Very High Strength	High load transmitting grade for use in permanent assemblies. Use for rotors, gears, couplings, pins, bushes, sprockets and sleeves. Ideal for heavy duty applications in earthmoving and mining equipment - crushers etc. When required, use Primer 7471. <i>Temp range -55°C to +150°C.</i>		
	<b>Retaining Compound 660</b> Quick Metal Press Fit Repair	Repairs worn shafts or housings. Prevents bearing spin in housings. Repair worn keyways and splines. Refit worn couplings. Form in place shims. Excess material outside of joint remains liquid for easy cleanup. When required, use Primer 7471. <i>Temp range -55°C to +150°C.</i>		
	<b>Flange Sealant 515</b> Master Gasket	Best grade to seal machined metal flanges. Seals all potential leak paths caused by machining, minor distortion and damage. Eliminates gasket compression set problems and the need to retighten. Semi-flexible to absorb load flexing of assemblies. Eliminates soft gaskets. AGA Approved N°2590 up to 690kPa (100psi). When required, use Primer 7649. Sensor Safe. <i>Temp range -55°C to +150°C.</i>		
	<b>Flange Sealant 518</b> Master Gasket	May be used to coat existing gaskets. Excellent wetting characteristics. Accommodates small variations in differential expression. Ideal for crankcases on motorcycles, outboards, chainsaws, etc. Maintain perfect alignment of gears and shafts, etc. When required, use Primer 7649. Sensor Safe. <i>Temp range -55°C to +150°C.</i>		
	<b>Flange Sealant 587</b> Blue Maxx Silicone	Use to replace or dress precut gaskets and seals. Sensor safe for use in modern automotive applications. Ideal for oil pans, rocker covers, inlet manifolds, etc. Use where relative movement causes failure of conventional gaskets. <i>Temp range -70°C to +260°C.</i>		
	<b>Lubricant 771</b> Nickel Anti-Seize	Reduces corrosion and seizing due to strong chemicals and weathering. Lubricates conveyer chains, well suited to marine applications. Coats gaskets in high temperature applications, pump / pipe flanges in chemical plants. Lubricates slow moving bearings in hot corrosive environments. Oven doors, oil refineries, bitumen plants, sewerage treatment plants. <i>Temp range -55°C to +760°C.</i>		
<p><b>Fixmaster Epoxy Adhesives</b> - Fixmaster filled and general purpose epoxies repair, rebuild and restore damaged parts to quickly return equipment to service. Cured epoxies can be drilled, tapped and machined - just like the original metal. These non-shrinking products are available in a range of performance characteristics for specific applications. Each epoxy is capable of bonding to metal, ceramic, wood, glass and some plastics.</p>				
<table border="0"> <tr> <td data-bbox="427 1588 954 1995"> <p><b>-Fixmaster High Performance Epoxy-</b> Fibreglass reinforced. Outstanding tensile and shear strength. Forms permanent water resistant bonds in product and maintenance applications. Temp range -30°C to +80°C.</p> <p><b>-Fixmaster Underwater Repair Epoxy-</b> Works in wet, dry and underwater. Resistant to chlorinated and salt water. Fills cracks, stops leaks in tanks, pipes and fittings.</p> <p><b>-Fixmaster Fast Set Steel Epoxy-</b> Steel filled. Reaches functional strength Temp range -30°C to +90°C. Recommended for repairing pipes and other equipment.</p> </td> <td data-bbox="986 1588 1517 1995"> <p><b>-Fixmaster Aluminium Liquid-</b> Aluminium filled. Two part pourable epoxy system. For casting and repairing of aluminium parts. Use for making moulds and fixtures. Temp range -30°C to +95°C.</p> <p><b>-Fixmaster Metal Magic Steel-</b> Steel epoxy in stick form. Cut, knead and apply to leaking pipes and damaged equipment. Cures in 10 minutes. Temp range -30°C to +120°C.</p> <p><b>-Fixmaster Liquid Steel-</b> Pourable and self-levelling. For casting into hard to reach areas. Use for anchoring and levelling. Forms moulds and fixtures. Temp range -30°C to +105°C.</p> </td> </tr> </table>			<p><b>-Fixmaster High Performance Epoxy-</b> Fibreglass reinforced. Outstanding tensile and shear strength. Forms permanent water resistant bonds in product and maintenance applications. Temp range -30°C to +80°C.</p> <p><b>-Fixmaster Underwater Repair Epoxy-</b> Works in wet, dry and underwater. Resistant to chlorinated and salt water. Fills cracks, stops leaks in tanks, pipes and fittings.</p> <p><b>-Fixmaster Fast Set Steel Epoxy-</b> Steel filled. Reaches functional strength Temp range -30°C to +90°C. Recommended for repairing pipes and other equipment.</p>	<p><b>-Fixmaster Aluminium Liquid-</b> Aluminium filled. Two part pourable epoxy system. For casting and repairing of aluminium parts. Use for making moulds and fixtures. Temp range -30°C to +95°C.</p> <p><b>-Fixmaster Metal Magic Steel-</b> Steel epoxy in stick form. Cut, knead and apply to leaking pipes and damaged equipment. Cures in 10 minutes. Temp range -30°C to +120°C.</p> <p><b>-Fixmaster Liquid Steel-</b> Pourable and self-levelling. For casting into hard to reach areas. Use for anchoring and levelling. Forms moulds and fixtures. Temp range -30°C to +105°C.</p>
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# ROCOL™

## METALWORKING LUBRICANTS

Providing High Performance, Cost Effective Cutting Fluid Solutions

- Hand Applied Cutting Lubricants
- Flood Applied Cutting Lubricants
- Mist Applied Cutting Lubricants
- Flood Applied Grinding Lubricants
- Machine Tool Care Products

Creating Lubricants  
with Industry™



# Ozspray – Liquid Lanolin



All Australian – Totally Natural – Non Toxic – Non Evaporative – A product that works the way it should!

Woolube protective compounds incorporate anhydrous lanolin in a special combination of extremely efficient non-toxic corrosion inhibitors, penetrants and conditioning agents providing long term protection of all types of metals against rust, acids, alkalies, even salts. Woolube never evaporates or completely hardens. Instead, Woolube forms a surface skin where exposed to air or water but remains soft in contact with metal - providing a non-stop 'reservoir' of active anti-corrosion inhibitors.

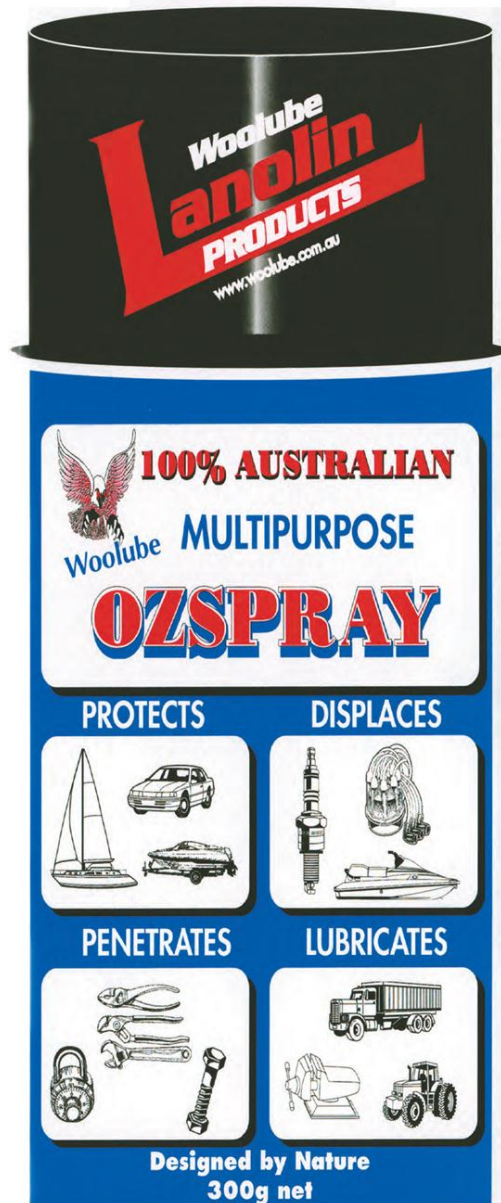
## Product Tests

**A.Q.I.S.:** Woolube Lanolin Products has the appropriate instruments approval (IOA) through the Australian Quarantine and Inspection Service for chemical compounds under the export control act 1982.

**Dielectric Capabilities:** Lanolin has been successfully tested as an insulator coating to 32Kv.

Woolube Lanolin is an invaluable product for most industries. It will preserve and protect your equipment, machinery and products. Common situations that will benefit from the application of either Grease, Spray or both:

Application	1 <sup>st</sup> pref	2 <sup>nd</sup> pref
Anchors & Shackles	Grease	Spray
Auto Rustproofing	Spray	Grease
Battery Terminals	Grease	Spray
Boat Trailers	Spray	Grease
Boat Trailer Springs	Grease	Spray
Chains	Grease	Spray
Electrolysis	Grease	Spray
Firearms	Spray	Grease
Golf Shoes & Sprigs	Spray	Grease
Heavy Machinery	Grease	Spray
Hinges	Spray	Grease
Horses Seedy Foot	Grease	Spray
Irrigation Plant & Pipes	Grease	Spray
Leather & Vinyl	Spray	Grease
Low/High Volt Connections	Spray	Grease
Outboard Motors	Spray	Grease
Power Heads	Spray	Grease
Propellers & Skegs	Grease	Spray
Rubber Gaskets & Seals	Grease	Spray
Saddlery/Harnesses	Spray	Grease
Sporting Equipment	Spray	Grease
Steel Preservation	Grease	Spray
Stern Drive Legs	Spray	Grease
Thread Anti-Sieze	Grease	Spray
Timber Preservation	Spray	Grease
Welding Anti-Spatter	Grease	Spray
Winch Cables	Grease	Spray
Yacht Standard Rigging	Grease	Spray



# Foam Tapes



NAME	THICKNESS (mm) ± 10%	WIDTH (mm)	DESCRIPTIONS	APPLICATION
<b>Medium to High Temperature Resistant EPDM's. PVC/Nitrile and Elastomers, with or without adhesive.</b>				
2300	3.0, 6.0, 12.0	9.0, 12.0, 15.0, 18.0, 24.0-680	Premium super soft, high temperature E.P.D.M. sealant. Semi closed cell. Plasticiser free. Conforms to R041. With or without long life acrylic pressure sensitive adhesive.	High temperature insulator in under bonnet, water pipe, electrical switch gear and other applications. Provides anti-rattle and insulation properties at elevated temperatures.
4300	3.0, 6.0, 9.0, 12.0	9.0, 12.0, 15.0, 18.0, 24.0-1200	Premium medium density, high temperature resistant E.P.D.M. Closed cell plasticiser free. With or without flame bonded long life acrylic adhesive. Conforms to RE41.	High temperature resistance where a closed cell product is specifically required. Suitable in head light and tail light seals. Also heater pipes and exterior mirror gaskets.
4700	3.0, 6.0, 9.0, 12.0	9.0, 12.0, 15.0, 18.0, 24.0-1200	Medium density synthetic rubber conforming to SBE41, SCE41 and RE42. Skinned on both sides. With or without flame bonded long life acrylic adhesive.	Exterior trim seals, opening and closure applications where easy release is required.
4900	3.0, 6.0, 9.0, 12.0	9.0, 12.0, 15.0, 18.0, 24.0-1200	Low density synthetic rubber conforming to SBE41. With or without flame bonded long life acrylic adhesive.	High temperature seals around lamps. Electrical gear, engine management systems.
6600	3.0, 6.0, 3.2, 4.8	9.0, 12.0, 6-1422	High temperature resistant elastomer extrusion. With pressure sensitive adhesive.	Continuous high temperature seals around lamps. Comes in spools for high speed line work.
<b>PVC Soft to Medium Density Closed Cell Foam. Single Sided Acrylic and Double Sided Butyl Adhesive Systems</b>				
2000	6.4, 9.5, 12.7		Soft closed cell P.V.C foam with single sided adhesive.	Airconditioning, glazing, vibration and noise dampening. Low force to compress allows for large surface area components having easy fit while maintaining seal and vibration integrity. Meets Ford ESBM 3G102A and G.M.H. HN 1340 1.1
4000	1.6, 3.2, 4.8, 6.4, 9.5	1.6, 3.2, 4.8, 6.4, 9.5	Medium density fire retardant closed cell P.V.C. foam with pressure sensitive adhesive.	Glazing, vibration noise dampening, anti-rattle. High force to compress and greater performance at reduced thicknesses than 2000 Series. Meets Ford ESBM 3G102A and G.M.H. HN 1340 1.1
6100	5.0, 6.0, 12.0 Diam		Black circular butyl coated soft P.V.C. foam. Combines the benefits of both solid and liquid sealants in an easy to use roll form.	Dust and water exclusion around glazing, boot lids, tails lamps. Circular body conforms well to narrow channels, butyl and core combine to maintain seal integrity where joint movement and high water run off may be possible.



# Wheels & Castors



PRODUCT IMAGE	PRODUCT NAME	DIAMETER (mm)	SUPPORTS WEIGHT (kg)	DESCRIPTION
	L Series	50	Up to 40	Lighter loads over shorter distances, smooth floors. Black nylon for economy or T.P.R. for floor protection
	K Series – Nylon	65, 75, 100, 125	60 to 70	Light ward equipment, display racks, etc. Twin ball races ensure ease of swivelling.
	D Series – T.P.R.	75, 100	Up to 80	Economical light industrial. Vinyl tiles or smooth concrete. Lighter warehouse trolleys, office equipment, etc.
	D Series – Nylon	75, 100, 125	Up to 100	Economical light industrial. Smooth concrete indoors. Twin raceways. Machine stands, display warehouse trolleys, etc.
	D Series – Blue Rubber	100, 125	Up to 95	Economical lighter industrial & commercial use. Resilient rubber reduces load vibrations.
	J Series – Rubber	100, 125	110 to 140	Hi-resilience blue tyres for warehouse trolleys, mobile racks and displays. Protect trolley and load.
	H Series – Rubber	150, 200	135 to 200	Economical black for most applications or hi-resilience blue for rougher use indoors or out. Materials handling trolleys, driveway display trolleys.
	H Series – Urethane	150, 200	300 to 450	Easy rolling, long lasting and resilient. Will not "chunk out". Good resistance to most chemicals. Easy on floors.
	P Series – Rubber	125, 150, 200	50 to 100	General purpose lawn mower type wheel. Also used on light hand trucks, BBQ's, bottle trolleys, etc.
	N Series – Pneumatic	220, 250, 260, 400	80 to 180	The easiest of rides. For rougher ground or load protection. Used on barrows, carts, hand trucks, etc. Also available in steel centres.

# Wheels & Castors (CONTINUED)



**rotacaster**  
the wheel 2.0

PRODUCT IMAGE	PRODUCT NAME	DIAMETER (mm)	SUPPORTS WEIGHT (kg)	DESCRIPTION
	<b>Single Rotacaster Wheel</b> (R-1125P1K22)	125 22 keyed	50	<b>Hub width:</b> 27mm, <b>Rollers:</b> polyurethane <b>Accessories:</b> shafts and spacers This wheel is designed predominantly for conveyor applications however can be used for floor applications when using combined multiples
	<b>Single Rotacaster Wheel</b> (R-1125P1K22-20)	125 22 keyed	50	<b>Hub width:</b> 20mm <b>Rollers:</b> polyurethane This wheel is designed predominantly for conveyor applications however can be used for floor applications when using combined multiples
	<b>Double Rotacaster Wheel</b> (R-2125P2)	125	90	<b>Hub width:</b> 44mm <b>Rollers:</b> polyurethane S95A <b>Bearings:</b> sealed, 10mm <b>Body Colour:</b> Grey
	<b>Triple Rotacaster Wheel</b> (R-3125P2)	125	125	<b>Hub width:</b> 64mm <b>Rollers:</b> polyurethane S95A <b>Bearings:</b> sealed, 10mm <b>Body Colour:</b> Grey
	<b>Double Rotacaster &amp; Standard Mount Without Plate</b> (RMT-2125P1-G1)	125	50	<b>Body Colour:</b> Grey/Green <b>Rollers:</b> polyurethane S85A Zinc Electro-plated steel. Single, double bolt or tube fitting.
	<b>Double Rotacaster &amp; Standard Mount Without Plate</b> (RMT-2125P2)	125	90	<b>Body Colour:</b> Grey <b>Rollers:</b> polyurethane S95A Zinc Electro-plated steel. Single, double bolt or tube fitting.
	<b>Triple Rotacaster &amp; Standard Mount Without Plate</b> (RMT-3125P1)	125	125	<b>Body Colour:</b> Grey <b>Rollers:</b> polyurethane S95A Zinc Electro-plated steel. Single or double bolt fitting.
	<b>Double Rotacaster &amp; Standard Mount With Plate</b> (RMP-2125P1-G1)	125	50	<b>Body Colour:</b> Grey/Green <b>Rollers:</b> polyurethane S85A Zinc Electro-plated steel. Four point fitting.
	<b>Double Rotacaster &amp; Standard Mount With Plate</b> (RMP-2125P2)	125	90	<b>Body Colour:</b> Grey <b>Rollers:</b> polyurethane S95A Zinc Electro-plated steel. Four point fitting.
	<b>Triple Rotacaster &amp; Standard Mount With Plate</b> (RMP-3125P2)	125	125	<b>Body Colour:</b> Grey <b>Rollers:</b> polyurethane S95A Zinc Electro-plated steel. Four point fitting.

# Wheels & Castors (CONTINUED)



PRODUCT IMAGE	PRODUCT NAME	DIAMETER (mm)	SUPPORTS WEIGHT (kg)	DESCRIPTION
	<b>Quad Rotacaster &amp; Mount</b> (RMP-4125P2)	125	160	<b>Body Colour:</b> Grey <b>Rollers:</b> polyurethane S95A Zinc Electro-plated steel. Four point fitting.
	<b>Multi Mounts</b>			<b>Finish:</b> Zinc Electro-plated steel <b>Rollers:</b> polyurethane (rubber optional) <b>Options:</b> with non-slip rubber strip (RS) <b>Accessories:</b> 19mm axles rods, washers, R-clips
	<b>Double Multi-Mount – 2 x Wheels</b> (MMR2-2125P2)	125ea	180	<b>Rollers:</b> polyurethane S95A <b>Wheel body colour:</b> Grey
	<b>Triple Multi-Mount – 2 x Wheels</b> (MMR2-3125P2)	125ea	250	<b>Rollers:</b> polyurethane S95A <b>Wheel body colour:</b> Grey
	<b>Double Multi-Mount – 3 x Wheels</b> (MMR3-2125P2)	125ea	250	<b>Rollers:</b> polyurethane S95A <b>Wheel body colour:</b> Grey
	<b>Triple Multi-Mount – 3 x Wheels</b> (MMR3-3125P2)	125ea	350	<b>Rollers:</b> polyurethane S95A <b>Wheel body colour:</b> Grey
	<b>Stair Climber Sets</b>			<b>Finish:</b> Zinc Electro-plated steel <b>Rollers:</b> polyurethane (rubber optional) <b>Options:</b> with non-slip rubber strip (RS) <b>Accessories:</b> 19mm axles rods, washers, R-clips
	<b>Double Stair Climbers</b> (2 to a Set) (SCR-2125P2-2)	125ea	220	<b>Rollers:</b> polyurethane S95A <b>Wheel body colour:</b> Grey <b>Optional:</b> R1 - Rubber rollers
	<b>Triple Stair Climbers</b> (2 to a Set) (SCR-3125P2-2)	125ea	220	<b>Rollers:</b> polyurethane S95A <b>Wheel body colour:</b> Grey <b>Optional:</b> R1 -Rubber rollers
	<b>Double Stair Climbers Conversion Sets</b> (SCR-2125P2-2-CS)	125ea	220	To suit 19 mm axle stair climber <b>Rollers:</b> polyurethane S95A <b>Wheel body colour:</b> Grey <b>Includes:</b> wheel set, 19 mm electro plated, axle, R clips, washers and spacers

# Composite Decking



A natural looking, beautifully tailored product that will **NEVER** need painting, staining or sealing. It won't warp, split, rot or splinter, **EVER!**

Made from a Wood and Polymer composite, this decking **looks like real wood** but has the added benefits of being low maintenance, slip resistant, easy to clean and long lasting.

Use composite decking in your outside entertaining area, around the pool, on walk ways/stairs or on the boat jetty.

PRODUCT IMAGES	PRODUCT NAME	DETAILS	COLOURS
	<p><b>Cleverdeck</b></p>	<p>Available in 5.4m lengths. NewTech deck clip system. 10 year warranty.</p>	<p>Available in 4 colours</p> <ul style="list-style-type: none"> <li>• Mahogany</li> <li>• Salt Bush</li> <li>• Slate Grey</li> <li>• Walnut</li> </ul>
	<p><b>Correctdeck</b></p>	<p>High definition wood grain. Signature fastening system. Limited Lifetime Warranty.</p>	<p>Available in 4 colours</p> <ul style="list-style-type: none"> <li>• Cedar</li> <li>• Grey</li> <li>• Arcadia</li> <li>• Mahogany</li> </ul>





The ultimate in high gloss surface products.

Zenolite® is the high tech, high gloss acrylic panel that has the look of glass yet does not have the installation restrictions and high cost of equivalent glass panels.

Zenolite comes in a range of designer colors, and being made from unique polymers, Zenolite will not crack, warp, shatter, stain or distort from normal commercial or household activities.

Providing a sleek and modern finish, Zenolite is a simple, fast and cost effective way to give your reception, foyer, kitchen, bathroom, bar and recreation area or boardroom, a new designer or updated look! Whether you use it as a feature wall, kitchen splashback, fascias, marker boards or office partitioning, Zenolite can bring to life virtually any vertical surface with a splash of color.

Zenolite panels can be fabricated and cut on-site by the installer, allowing custom fitting to out of square walls and accurate location of cut outs for power and water points.

25 times the impact strength of equivalent glass panels The Zenolite innovation also means ease of maintenance. With Zenolite there is no need to purchase special cleaners as an ordinary mild detergent on a soft cloth does the cleaning - it's that simple.



# Stainless Steel



A modern alternative for your home both indoors and out.

- Stylish
- Modern
- Practical
- Durable
- Cost Effective
- Indoor uses:
  - Kitchen splashbacks
  - Kitchen bench tops
  - Feature walls
- Outdoor uses:
  - BBQ benches and splashbacks
  - Planter boxes
- Available in a variety of surface appearances
  - Plain - includes Satin Brush, Vibration, Bead Blast
  - Patterned - see samples →
- Clear powder coating with colour tints also allow the visual impact of the patterned surface to increase in dynamic affect. Colours include: blue, brass, citrine, green, kiwi, jade, orange, red, sapphire, violet
- Custom fabricated inhouse to suit your needs and specifications
- Visit our showroom to see the full range of patterns and finishes available to discuss your needs with our friendly staff.




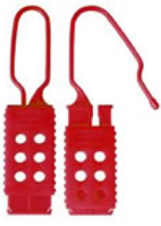




PRODUCT IMAGE	CODE
	DEC015
	DEC04
	DEC011
	DEC016
	DEC017
	DEC6SL


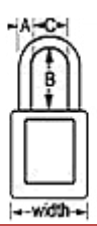

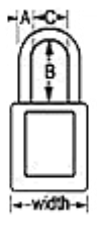


# Safety Lockout Products



## Master Lock

PRODUCT IMAGE	PRODUCT NAME	PRODUCT IMAGE	PRODUCT NAME
	<b>ALUMINIUM SPARK PROOF HASP</b> (25mm & 38mm)		<b>SNAP ON HASP</b>
	<b>STEEL HASP</b> (25mm & 38mm)		<b>NYLON NON-CONDUCTIVE HASP</b>
	<b>TABBED STEEL HASP</b>		<b>DUAL JAW ALUMINIUM</b>
	<b>HEAVY DUTY STEEL HASP</b> (4 & 8 Lock)		<b>ADJUSTABLE CABLE LOCKOUT</b> With 1830mm cable. Also available: separate 4570mm cable for use with this product.

PRODUCT IMAGE	NAME	CODE	VERTICAL SHACKLE CLEAR (B)	DESCRIPTION
1 – ½" wide, 1 – ¾" Tall Xenoy Body. Shackle Dimensions A: ¼", C: 25/34". Avail with 1 – ½" or 3" tall shackle. Write-on labels.				
 	<b>410 SERIES SAFETY PADLOCK</b>	410RED	1 – ½"	Keyed Different
		410LRED	3"	Keyed Different, X Long Shackle
		410KARED	1 – ½"	Keyed Alike
		410KALTRED	3"	Keyed Alike, X Long Shackle
		410MKRED	1 – ½"	Keyed Alike, Master Keyed
		410KAMKRED	1 – ½"	Master Keyed
		410AST	1 – ½"	One of each colour. (8x) Keyed Different.
 	<b>406 SERIES NON-CONDUCTIVE PADLOCK</b>	406RED	1 – ½"	Keyed Different, Dielectric
		406KARED	1 – ½"	Keyed Alike
		406MKARED	1 – ½"	Master Keyed
		410KAMKRED	1 – ½"	Keyed Alike, Master Keyed

Eight colour options available – Add desired colour suffix: **RED, ORJ, YLW, GRN, BLU, BLK, PRP, TEAL**

# Group Isolation Boards



We can manufacture Group Isolation Boards to your specifications inhouse.

The real benefit of the "Specialised Lockout System" is in the ability for all the workers in a group to attach their locks to all the lockout boards in one place and at one time. The safety and management procedures on many sites require toolbox meetings of the workers to plan their work and to discuss safety. The "lockout boards" are assembled at one place (often the crib room) and each worker attaches a lock to each isolation board needed to protect him. In less than 10 minutes all members of the team can complete their personal lockout procedures and then get to work.



Safeguard lives and satisfy WHS requirements.

Our Safety, WHS and Safety Lockout products also include:

- Safety Padlocks
- Training and Signs
- Tags and Hasps
- Multiple Point Lockouts
- Value Lockout Devices
- Electrical Lockout devices
- Steering Wheel Tag Out Covers
- Lockout Kits
- Lockout Stations



# Account Application



LEGAL NAME OF APPLICANT: \_\_\_\_\_

WHAT ARE YOU: (EG: SOLE TRADER, PARTNERSHIP, COMPANY etc.) \_\_\_\_\_

TRADING NAME (if different): \_\_\_\_\_

INVOICE ADDRESS: \_\_\_\_\_

DELIVERY ADDRESS: \_\_\_\_\_

YOUR CARRIERS NAME: \_\_\_\_\_ A/C NO: \_\_\_\_\_

If you prefer we will use our carrier and bill you.

TELEPHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

EMAIL: \_\_\_\_\_

TYPE OF BUSINESS \_\_\_\_\_ ABN: \_\_\_\_\_

CREDIT LIMIT REQUIRED (= 2 X MAXIMUM MONTHLY PURCHASES): \_\_\_\_\_

## HOW DID YOU HEAR ABOUT US?

Yellow Pages  Staff Member \_\_\_\_\_  Other? \_\_\_\_\_

Internet  Radio  HIA

## HOW WOULD YOU LIKE US TO SEND YOUR DOCUMENTS TO YOU

### INVOICES

Email is OK - send to this email address: \_\_\_\_\_

Fax is OK - send to this fax number: \_\_\_\_\_

Australia Post

### STATEMENTS

Email is OK - send to this email address: \_\_\_\_\_

Fax is OK - send to this fax number: \_\_\_\_\_

Australia Post

## TRADE REFERENCES

	NAME	PHONE	FAX
1			
2			
3			

## DETAILS OF DIRECTORS / PRINCIPALS

	NAME	ADDRESS	HOME PHONE
1			
2			
3			

# Personal Guarantee



In consideration of you agreeing, at my/our request, to supply goods to:

(Name of applicant on application) .....

I/we hereby agree that I/we personally will be answerable and responsible to you for the due payment by the business for all such goods as you may from time to time supply to it and that I/we will be jointly and severally liable with it to you for such payment. This guarantee shall be a continuing guarantee to you for all debts whatsoever, and whenever, contracted by the business with you in respect of goods to be supplied to it and shall bind my legal personal representatives, estate and effects and shall remain in force and effect until all moneys now or at anytime thereafter payable by the business have Been paid.

You are at liberty, without notice to me/us, at any time, and without anyway discharging me/us from liability hereunder to grant time or other indulgence to the business and to accept payment from it in cash or by means of negotiable instruments.

I/we have read the attached Returns Policy of Specialised Wholesale and agree to its terms.

I/we hereby request SPECIALISED WHOLESALE PTY LTD to open a 30-DAY CREDIT facility for the business named above with me/us as guarantor.

GUARANTOR No 1:

WITNESS:

Signature: .....

Signature: .....

Name:.....

Name: .....

RESIDENTIAL ADDRESS

RESIDENTIAL ADDRESS

.....

.....

.....

.....

.....

.....

DATE:.....

DATE: .....

GUARANTOR No 2:

WITNESS:

Signature: .....

Signature: .....

Name:.....

Name: .....

RESIDENTIAL ADDRESS

RESIDENTIAL ADDRESS

.....

.....

.....

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.....

.....

DATE:.....

DATE: .....

# Returns Policy



You can choose between a **refund, exchange** or **credit** where goods:

- Are faulty
- Have been wrongly described
- Are different to the sample shown to you
- Do not do what they are supposed to do

Returns will not be accepted without proof of purchase.

Goods returned for credit will not be accepted unless authorised in writing by a Specialised Wholesale Pty Ltd employee. To obtain authorisation, when practicable, please contact our office on 0249524544. A **Request for Credit form** detailing the original invoice number, date and reason for return will be completed at this time and will be attached to goods when returned. If you are returning goods over the counter a Request for Credit will be completed by an employee at that time. Acceptance of goods returned for credit does not imply agreement to issue a credit note. A credit note will only be issued if the returned goods are found to be satisfactory by Specialised Wholesale management. Where goods are returned as a result of:

- Change of mind
- Incorrect goods were ordered
- Over purchasing

Freight costs will be at the customers expense. Forwarding freight costs will also be charged as applicable. Such returns should be made within 14 days and will also be subject to a handling fee of either:

- Value of goods returned under \$100 excluding GST:** Flat fee of \$10 + GST.
- Value of goods returned over \$100 excluding GST:** 10% of the value of goods returned.

Goods will not be accepted for return for credit, exchange or refund where:

- Goods are not returned in their original sealed packets
- Goods have been cut or otherwise reworked to purchasers specifications
- Goods are specifically manufactured to purchasers specifications
- Goods have been altered or damaged by the purchaser
- Goods are non stock items and have been specially procured

The purchaser is obliged to open and check all goods supplied and to report any alleged deficiency with details of the invoice number and specification of the claim within 14 days of the date of delivery. Any claims made outside that time will only be accepted for credit at management's discretion and as a result of extenuating circumstances.

# Terms & Conditions of Sale



The following are the terms and conditions upon which Specialised Wholesale Pty Ltd may supply goods and services to an accepted monthly credit account customer:

1. All goods and services supplied by Specialised Wholesale Pty Ltd shall be paid for in full by you within thirty (30) days of the end of the month following delivery.
2. Goods may only be returned in accordance with our returns policy.

All goods and services are supplied by the above named company (Seller) to another party (Buyer) on the terms and conditions set out in this document (Terms) and no change to these Terms will have any effect unless expressly agreed to in writing by the parties.

## 1. Quotation & Purchase Orders

- a) A quotation is then valid for 30 days or such other period as stated in it. No contract arises from a quotation until the Buyer's order has been accepted by the Seller.
- b) The Seller will not be bound by any condition attaching to the Buyer's order including any purchase order or acceptance of a quotation unless such condition is expressly accepted by the Seller in writing.
- c) Orders are subject to approval of the Seller's Credit Department and the Seller may at any time alter or suspend credit, refuse shipment or cancel unfilled orders, when in the Seller's opinion the financial conditions of the Buyer or the status of the Buyer's account warrant it.
- d) Changes or cancellations to orders requested by the Buyer will not be effective unless accepted in writing by the Seller. The Buyer is liable for any costs, expenses, and liabilities incurred by the Seller in connection with any change to an order.

## 2. Price

- a) Prices quoted by the Seller
  - i. do not include Goods and Services Tax
  - ii. are applicable to that quotation only and will not apply in any other instance.
  - iii. do not include cost of delivery or fuel surcharge.
- b) Notwithstanding Clause 1(a), the Seller:
  - I. is entitled to vary the quoted price for the goods and services at any time prior to delivery if the cost to the Seller in performing the contract is increased by reason of delivery of the goods and services outside normal working hours at the request of the Buyer or to an address other than that originally specified by the Buyer.
  - II. is entitled to vary the quoted price for imported goods at any time prior to delivery if the currency used to quote has shifted by more than 2.5% between the date quoted and the date of invoice.
  - III. reserves the right to charge prices which apply to goods and services at the time of delivery.
- c) Quoted prices for hire of any fitting tools and equipment in conjunction with supply of goods are subject to change if there is any change in quantity or type of the goods purchased.





### 3. Goods and Services Tax

a) Should any Goods & Services Tax as levied under the A New Tax System (Goods and Services Tax) Act 1999 (Cth) (as amended) and any other tax, fee, levy or duty imposed by any competent authority be payable on any of the Goods supplied by the Company, such tax, fee, levy or duty will be to the Buyers account and shall be calculated using the rates and methods of assessment in force at the time of Delivery. The Buyer is liable for any other applicable tax, including, without limitation withholding tax.

### 4. Terms of Payment

a) Where the Buyer has a credit account with the Seller, the invoice amount for the goods or services must be paid in full within thirty (30) days of the end of the month during which the goods or services were invoiced. In all other cases the purchase price for the goods or services must be paid in full on or before delivery.

b) The Buyer is not entitled to withhold payment or make any deduction from the purchase price of the goods or services in respect of any set off or counterclaim.

c) If the Buyer fails to pay for any instalment for the goods or services, the Seller may in its absolute discretion, but without prejudice to any other remedy it may have, postpone the fulfillment of the order and under any other order placed by the Buyer until such payment is made. Buyer will pay any extra expenses incurred by the Seller as a result of failure to pay an installment.

d) The Seller has the right to set off amounts owing by the Buyer to any related or associated entity of the Buyer.

### 5. Passing of Property and Risk

a) Risk in goods supplied by a Seller to the Buyer will pass to the Buyer immediately upon delivery to the Buyer, into the Buyer's custody or at the Buyer's direction, whichever happens first. Notwithstanding the delivery of the goods to the Buyer, full and absolute ownership of and title in the goods supplied by a Seller to the Buyer under these Terms shall not pass to the Buyer until those goods have been paid for in full and in cleared funds.

b) Until the goods have been paid in full on or before the due date, the Buyer:

- I. will hold any goods as bailee and fiduciary for the Seller;
- II. may not remove or change the manner in which the goods have been labelled by the Seller; and
- III. shall store the goods in a manner which shows clearly that they are the property of the Seller which supplied them;

c) The Buyer may sell the goods, as the fiduciary and bailee for the Seller and in the ordinary course of the Buyer's business, provided that any proceeds resulting from any sale of the goods will be paid to the Seller to satisfy the debt or held by the Buyer in a separate account, on trust, for the Seller.

d) Where the order is for delivery of goods by instalments, property will not pass in any goods until payment has been made to the Seller for the whole order.

e) The Buyer irrevocably authorises the Seller at any time to enter onto any premises upon which:

- I. the Seller's goods are stored to enable the Seller to inspect the goods;
- II. if the Buyer has breached these Terms, to reclaim the goods; and



III. the Buyer's records pertaining to the goods are held, to inspect and copy such records.

and the Buyer will indemnify the Seller against any action claim or demand arising out of the exercise by the Seller of its powers under this sub-clause.

f) In the event of a default, the Seller may without prejudice to any of the Seller's other rights, demand the immediate return of the goods at the Buyer's expense.

g) The Buyer and Seller agree that the provisions of this clause apply notwithstanding any arrangement under which the Seller grants credit to the Buyer.

## 6. Delivery

a) Unless otherwise agreed in writing, the time of delivery is calculated from the date of the order. Although every effort is made by the Seller to keep the delivery date promised, the Seller assumes no liability for any loss or damage occasioned by delays in delivery. Offers for delivery ex stock are subject to confirmation on receipt of order.

b) Unless otherwise agreed in writing, the Seller is entitled to make delivery by instalments and to determine the route and manner of delivery of the goods.

c) The Seller is entitled to deliver the goods to the premises notified by the Buyer, even though those premises may be unattended by the Buyer at the time of delivery.

d) The Seller's delivery records will be prima facie proof of delivery of the goods to the Buyer.

e) If the Seller is prevented (directly or indirectly) from delivering the goods or any of them by reason of any act of God or strikes, lockouts, trade disputes, fire, breakdown, interruption of transport, governmental action or any other cause whatsoever outside its control, the Seller will be under no liability whatsoever to the Buyer and will be entitled at its option either to terminate the order or to extend the time of its performance.

## 7. Liability for supply of Non-Consumer Goods and Services

a) Where the goods and services supplied by the Seller are:

(i) not intended to be used, or are not of a kind likely to be used for personal, domestic or household use or consumption (Personal Goods or Services); or

(ii) goods which have been purchased for re-supply or for use in trade or commerce in the course of production or manufacture or for repair or treating other goods or fixtures (Manufacturing Goods); or

(iii) are not Personal Goods or Services or Manufacturing Goods and are for a value of more than \$40,000

together, Non-Consumer Goods and Services:

the Seller makes no warranties, either express or implied in respect of such goods and services. To the extent that goods supplied are covered by a manufacturer's warranty, the Seller will pass on to the Buyer the benefit of the manufacturer's warranty.

b) To the extent permitted by law, the liability of the Seller in respect of any Non-Consumer Goods and Services, if any, will be at the Seller's option and limited to:



I. in the case of goods:

1. the replacement of the goods; or
2. resupply of equivalent goods; or
3. the repair of the goods

II. in the case of services:

1. supplying the services again.

c) Any service or advice which may be offered by the Seller, its servants or agents to the Buyer or its agents in connection with the supply of Non-Consumer Goods and Services, is rendered in good faith and the Seller shall not be liable for any loss or damage arising from such service or advice.

d) For the avoidance of doubt, the Seller will be under no liability whatsoever to the Buyer for any loss, expense, injury or damage (including consequential loss, injury or damage) suffered or caused as a result of or arising out of any act or omission (whether negligent or otherwise) by the Seller, its servants or agents or any person in any way related to or arising out of the supply of Non-Consumer Goods and Services by the Seller.

## 8. Performance of Services

a) Where the Seller fails to provide any services, such as installation or training, on any estimated date it will provide the services within a reasonable time.

b) Where the Seller is to provide services, the Buyer must:

- i. be responsible for providing clean, safe and proper access to and at the place where the services are to be provided ("Site");
- ii. ensure the Site is properly prepared for the provision of services;
- iii. provide safe and secure conditions and comply with any occupational, health and safety laws for the Company, its sub-contractors, employees or agents whilst providing the services.

c) The Seller may, at its absolute discretion, opt not to provide the services if the conditions are, in its reasonable opinion, not work safe. The Seller will not be liable to the Buyer in those circumstances.

d) The Buyer indemnifies the Seller against any loss or damage suffered by the Seller, its sub-contractors or employees as a result of provision of the services at the Site, except where the Buyer is a consumer as defined in Australian Consumer Law and the Seller has not used due care and skill.

## 9. Consumer Guarantees

a) Where the goods and services supplied by the Seller are:

- (i) intended to be used, or are of a kind likely to be used for personal, domestic or household use or consumption (Personal Goods or Services); or
- (ii) are not Manufacturing Goods; or
- (iii) are for a value of \$40,000 or less,

together, Consumer Goods and Services, the consumer guarantee provisions of the Competition and Consumer Act 2010 (Cth) apply to the supply of such Consumer Goods and Services and the Seller's liability to Buyer is governed by

# Terms & Conditions of Sale

(CONTINUED)



such provisions . Our goods come with guarantees that cannot be excluded by Australian Consumer Law. You are entitled to a replacement or refund for a major failure, and compensation for any other reasonably foreseeable loss or damage.

You are also entitled to have the goods repaired or replaced if goods fail to be of acceptable quality and the failure does not amount to a major failure.

## 10. Personal Property Securities Act 2009 ( PPSA)

a) The Buyer hereby acknowledges:

a. that these Terms constitute a security agreement which creates a Security Interest, as that term is defined in the PPSA, in favour of the Seller in all Goods previously supplied by the Seller to the Buyer (if any) and all after acquired Goods supplied by the Seller to the Buyer (or for the Buyer's account) to secure the payment from time to time and at a time, including future advances; and

b. that the Security Interest created by these terms is a Purchase Money Security Interest, as that term is defined in the PPSA.

b) The Buyer acknowledges and agrees that the Seller has given value for the Security Interest and the Seller's Security Interest in the goods is effective and attaches to the goods immediately upon the Buyer taking delivery of the goods. These terms shall apply notwithstanding anything express or implied to the contrary contained in the order.

c) The Buyer undertakes to:

- i. at its own cost, do anything which the Buyer considers reasonably necessary to ensure that the Seller's Security Interest in the goods attaches to the goods, is enforceable, perfected and otherwise effective and has the priority required by the Seller;
- ii. enable the Seller to exercise or enforce any of its rights in relation to its Security Interest in the goods and the proceeds of those goods, or to perform any of its obligations under the PPSA;
- iii. enable the Seller to prepare, register or renew a financing statement, these Terms on the Personal Property Securities Register.
- iv. give the Seller not less than 15 days written notice of any proposed change in the Buyer's name and / or any other changes in the Buyer's details (including changes in the Buyer's address, facsimile number, email address, trading name or business practice);
- v. pay all costs incurred by the Seller in registering and maintaining a financing statement (including registering a financing change statement) on the PPSR and/or enforcing or attempting to enforce the security interest created by these Terms including executing subordination agreements;
- vi. be responsible for the full costs incurred by the Seller (including actual legal fees and disbursements on a solicitor and client basis) in obtaining an order pursuant to section 182 of the PPSA; and
- vii. waive any rights it may have under sections 115 of the PPSA upon enforcement.

d) The Purchaser must not, otherwise than in accordance with these Terms, create any Security Interest in the goods, or any property which constitutes "personal property" under the PPSA and becomes an accession to the goods, without the prior written consent of the Seller.

e) The parties acknowledge and agree that, unless otherwise agreed to in writing by the Seller, and to the extent permitted under the PPSA, the Buyer waives the right to receive any notices, including a verification statement pursuant to section 157 of the PPSA, in respect of any financing statement or financing change statement relating to the Security Interest.



# Terms & Conditions of Sale

(CONTINUED)



f) The Buyer agrees that immediately on request by the Seller, the Buyer will procure from any persons considered by the Seller to be relevant to its security position such agreement and waivers as the Seller may at any time require.

g) Neither the Seller nor the Buyer shall disclose information of the kind mentioned in section 275(1) of the PPSA and the Buyer will not authorise, and will ensure that no other party authorises, the disclosure of such information.

## 11. Miscellaneous

The Buyer will, upon demand by the Seller, pay to the Seller the amount of any stamp duty or other tax (including sales tax and GST) payable on the supply of any goods and services by the Seller.

## 12. Intellectual Property

All trade mark, copyright, design right and other intellectual property in any design, specification, process, method of working or other information relating to the goods or services (other than that provided by the Buyer to the Seller) shall vest for all time in the Seller.

## 13. Entire Agreement

These Terms constitute the entire agreement between the Seller and the Buyer and no terms, conditions, obligations or other provisions of any nature not contained in these Terms shall be of any effect.

## 14. Variation

Except in the case Non-Consumer Goods and Services, from time to time, The Seller may vary these Terms. If the Seller intends to do so, the Seller will give 30 days written notice and clearly set out any proposed amendments.

## 15. Governing Law of Contract

These Terms are governed by the laws of New South Wales and the parties submit to the exclusive jurisdiction of the courts of New South Wales and any court hearing appeals from those courts.

SIGNED AND ACKNOWLEDGED BY AUTHORISED REPRESENTATIVE:

.....

FULL NAME: .....

TITLE: .....

DATE: .....

SIGNATURE OF WITNESS: .....

FULL NAME OF WITNESS: .....

DATE: .....