



PROFAST

Fasteners & Fixings Solutions

Fasteners & Fixings for the Construction Industry

Profast

Dublin : +353 (0)1 4566 666

Belfast : +44 (0)28 9024 3215

Derbyshire: +44(0) 1773 740 410



PROFAST

Fasteners & Fixings Solutions

Profast Limited present a comprehensive range of products and services from everyday fixings to high specification structural fasteners.

At Profast Limited we stand for service, quality and accurate solutions. Your experience is our priority and our people are your greatest asset.

Since our formation in 1956, Profast has built it's firm foundations to become one of the major suppliers in Ireland serving a multitude of market sectors with a range of high quality products and well known brands.

A full range of our products and technical information can be viewed on our websites:

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Steel Construction Fasteners

EN 15048 Non-preload Bolt Assemblies (CE Marked)



DESCRIPTION:	Assembled Set, Nut & Washer EN 15048 Assembled Bolt, Nut & Washer EN 15048
SPECIFICATION:	<ul style="list-style-type: none"> ■ Non preload bolt assemblies ■ CE Marked According to EN 15048 ■ M12 – M30 ■ Lengths: 30 – 150 mm ■ Hex Set Screw ISO 4017 Gr. 8.8 c/w Hex Nut to ISO 4032 Gr.8 (10) & Flat Washer to ISO 7089 ■ Hex Bolt ISO 4014 Gr. 8.8 c/w Hex Nut to ISO 4032 Gr. 8 (10) & Flat Washer to ISO 7089 ■ Finish: BZP, HDG ■ Note: Class 10 Nuts used for HDG
APPLICATION:	Structural Steel Erection

EN 14399-1 Tension Control Bolt (TCB)



DESCRIPTION:	TCB Bolt, Nut & Washer Greenkote EN14399-1
SPECIFICATION:	<ul style="list-style-type: none"> ■ M12 – M36 ■ Lengths: 35 – 240 mm ■ Gr. 10.9 Bolt, Gr. 10 Nut
APPLICATION:	Structural Steel Erection, Heavy Loads

EN 14399-4 Preload bolt assemblies (HV)



DESCRIPTION:	HV Bolts & Nuts EN 14399-4
SPECIFICATION:	<ul style="list-style-type: none"> ■ Preload bolt assemblies, Bolt, Nut & Hardened Washers ■ CE Approved ■ M12 – M36 ■ Lengths: 40 – 200 mm ■ Gr. 10.9 - HDG
APPLICATION:	Structural Steel Erection, Heavy Loads

EN 14399-3 Preload bolt assemblies (HR)



DESCRIPTION:	HR Bolts & Nuts EN 14399-3
SPECIFICATION:	<ul style="list-style-type: none"> ■ Preload bolt assemblies, Bolt, Nut & Hardened Washers ■ DTI Washer (k-Class k0 HR assemblies) ■ CE Approved ■ M12 – M36 ■ Lengths: 40 – 200 mm ■ Gr. 8.8 - Self Colour, BZP, HDG ■ Gr. 10.9 - BZP, HDG
APPLICATION:	Structural Steel Erection, Heavy Loads

Square Square Holding Down Bolt BS 7419 (Foundation Bolt)



DESCRIPTION:	Sq. Sq. Hex Bolt & Nut
SPECIFICATION:	<ul style="list-style-type: none"> ■ Bolt Standard: BS 7419 Gr. 8.8 ■ Nut Standard: ISO 4032 ■ M16-M100 ■ Lengths: 300 – 2500 mm ■ Gr. 8.8 BZP, HDG, Self Colour
APPLICATION:	Steel, Concrete

Square Plate Washer for use with Holding Down Bolt



DESCRIPTION:	Square Plate Washer
SPECIFICATION:	<ul style="list-style-type: none"> ■ M16 – M30 ■ 80mm x 80mm square ■ 100 mm x 100 mm square ■ 10, 12, 15 mm thick ■ HDG
APPLICATION:	Steel, Concrete

Wax Cone for use with Holding Down Bolt



DESCRIPTION:	Wax Cone
SPECIFICATION:	<ul style="list-style-type: none"> ■ Wax ■ Lengths: 229, 305, 380, 457, 534, 610, 762 mm
APPLICATION:	Steel, Concrete

BlindBolt



DESCRIPTION:	BlindBolt
SPECIFICATION:	<ul style="list-style-type: none"> ■ M8 – M30 ■ Lengths of 50 to 185 mm ■ Zinc Flake Finish ■ Optional Stainless Steel
APPLICATION:	Hollow Steel Section

Hollobolt



DESCRIPTION:	Hollobolt
SPECIFICATION:	<ul style="list-style-type: none"> ■ Head Designs: Hexagonal, Countersunk, Flush Fit ■ M8-M20 ■ Various Fix Range ■ Zinc Plated, Galv or Stainless Steel.
APPLICATION:	Hollow Steel Section

Cast Iron Beam Clamp



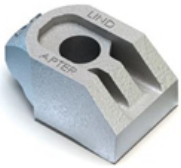
DESCRIPTION: Cast Iron Beam Clamp

SPECIFICATION:

- For Threaded Rod Sizes M8, M10 or M12
- BZP

APPLICATION: Structural Steel

Lindapter Clamps



DESCRIPTION: Type A Recessed
Lindapter's standard clamp is used to resist moderate tensile loading. Can also be used with Type B in a Girder Clamp configuration

SPECIFICATION:

- M8 – M24
- Malleable iron, zinc plated or hot dip galvanised

APPLICATION: Steel Girders, Structural Steel

Shear Stud



DESCRIPTION: Shear Stud

SPECIFICATION:

- 19mm x 75, 100, 125, 150, 175, 200
- 22mm x 95, 100, 125, 150, 175
- Supplied options of: Studs Only, c/w through deck & direct to steel ferrules, large flux ball
- CE Certified

APPLICATION: Steel

Fasteners

Bolt DIN 931 / ISO 4014



DESCRIPTION: Metric Hex Bolt DIN 931 (ISO 4014)

SPECIFICATION:

- M4 – M36
- Lengths: 40 – 320 mm
- Gr. 8.8 - Self Colour, BZP, HDG
- Gr. 10.9 - BZP, HDG
- A2, A4 Stainless Steel

APPLICATION: Steel, General Engineering

Set Screw DIN 933 / ISO 4017



DESCRIPTION: Metric Hex Set Screw DIN 933 (ISO 4017)

SPECIFICATION:

- M4 – M36
- Lengths: 16 – 300 mm
- Gr. 8.8 - Self Colour, BZP, HDG
- Gr. 10.9 - BZP, HDG
- A2, A4 Stainless Steel

APPLICATION: Steel, General Engineering

Cup Square Bolt DIN 603 & Nut DIN 555



DESCRIPTION: Cup Square Bolt DIN 603
Cup Square Bolt & Nut DIN 603/555

SPECIFICATION:

- M6 – M20
- Lengths: 25 – 300 mm
- Finish: BZP, HDG

APPLICATION: Steel, Wood

Socket Cap Screw DIN 912 / ISO 4762



DESCRIPTION: Socket Cap Screw DIN 912 (ISO 4762)

SPECIFICATION:

- M3 – M20
- Lengths: 20 – 200 mm
- Finish: Self Colour, BZP, HDG, A2, A4

APPLICATION: General Engineering

Socket Countersunk Screw DIN 7991 / ISO 10642



DESCRIPTION: Socket Countersunk Screw DIN 7991 (ISO 10642)

SPECIFICATION:

- M3 – M24
- Lengths: 20 – 200 mm
- Finish: Self Colour, BZP, HDG

APPLICATION: General Engineering

Socket Button Screw ISO 7380-1



DESCRIPTION: Socket Button Screw ISO 7380-1

SPECIFICATION:

- M5 – M16
- Lengths: 10 – 70 mm
- Finish: Self Colour, BZP, HDG, A2, A4

APPLICATION: General Engineering

Coach Screw DIN 571



DESCRIPTION: Hex Head Coach Screw

SPECIFICATION:

- M6 – M20
- Lengths: 25 – 200 mm
- Finish: BZP, HDG, A2, A4

APPLICATION: Wood

Huck C6L Lockbolt



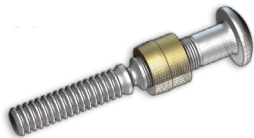
DESCRIPTION: Huck C6L Lockbolt

SPECIFICATION:

- Diameter stocked – (1/4") 6.4 mm
- Grip range 4.8 mm – 7.9 mm
- Headstyle – Brazier
- Standard collar

APPLICATION: Crushing/screening equipment, railways

Huck C50L Lockbolt



DESCRIPTION: Huck C50L Lockbolt

SPECIFICATION:

- Diameters stocked – (1/2", 3/4", 1") 12.7 mm, 19.1 mm, 25.4 mm
- Grip range varies over diameter
- Headstyle – standard round head
- Standard collar

APPLICATION: Crushing/screening equipment, railways

U Bolt



DESCRIPTION: U Bolt

SPECIFICATION:

- M8, M10, M12, M16
- To suit nominal bore and O.D. pipe sizes
- Finish: Zinc or HDG

APPLICATION: Steel, General Engineering

TapTite



DESCRIPTION: TapTite

SPECIFICATION:

- M6, M8, M10
- Lengths of 20, 25, 30, 40, 50 mm
- Hex Head or CSK
- Zinc Plated

APPLICATION: General Construction

Nuts – Hex, Nyloc, Dome, Heavy Hex, Serrated Flange, Half Nut, Shear, Wing



DESCRIPTION: Hex Nut DIN 934 (ISO 4032)
Nylon Insert Lock Nut DIN 985 (ISO 15011)
Dome Nut DIN 1587
Heavy Hex Nut ASTM A194
Serrated Flange Nut DIN 6923
Hex LockNut DIN 936 Half Nut
Shear Nut
Wing Nut DIN 315

SPECIFICATION:

- M6 – M60
- Finish: Self Colour, BZP, HDG, A2, A4

APPLICATION: Steel, Sheet Metal, General Engineering

Washers – Flat, Spring, Fan Disc, Nylon, Repair, Hardened



DESCRIPTION: Flat Washer DIN 125 (ISO 7089) / BS 4320 Table 2 / BS 3410-1961
Spring Washer Rect. Section DIN 127B & Single Coil Sq Sect DIN 7980
Fan Disc Washer DIN 6798
Nylon Washer
Repair Washer DIN 9021
Hardened Washer EN 14399-6

SPECIFICATION:

- M6 – M39
- Finish: Self Colour, BZP, HDG, A2, A4, Gr 8., Gr. 10

APPLICATION: Steel, Sheet Metal, General Engineering

Roofing Bolt & Nut



DESCRIPTION: Roofing Bolt & Nut

SPECIFICATION:

- M5 – M10
- 8mm to 260mm in length

APPLICATION: Roofing & Cladding

Threaded Rod DIN 976-1



DESCRIPTION:	Threaded Rod DIN 976-1
SPECIFICATION:	<ul style="list-style-type: none"> ■ M6 – M36 ■ Gr. 4.6, Gr. 8.8, Gr. 10.9 ■ 1m, 3m Zinc or HDG ■ A2 or A4 Stainless Steel
APPLICATION:	Steel, General Engineering, Mechanical & Electrical

Threaded Rod Connector DIN 6334



DESCRIPTION:	Threaded Rod Connector DIN 6334
SPECIFICATION:	<ul style="list-style-type: none"> ■ M6 – M30 ■ BZP, HDG ■ A2 Stainless Steel
APPLICATION:	Steel, General Engineering, Mechanical & Electrical

Threaded Stud DIN 976-1



DESCRIPTION:	Threaded Stud DIN 976-1
SPECIFICATION:	<ul style="list-style-type: none"> ■ M6 – M36 ■ Gr. 4.6 BZP, Gr. 8.8 HDG, B7 ■ Cut to length ■ A2 or A4 Stainless Steel
APPLICATION:	Steel, General Engineering, Mechanical & Electrical

Accessories



DESCRIPTION:	Blowpump Wire Brush
SPECIFICATION:	<ul style="list-style-type: none"> ■ Ideal for cleaning dust from drilled holes prior to applying bonded anchors or installing mechanical anchors ■ Hole cleaning is necessary for correct loads ■ Manual, easy to use
APPLICATION:	Accessory used for cleaning out anchoring holes in concrete and masonry

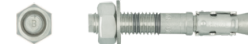
Threaded Rod Cutter



DESCRIPTION:	Threaded Rod Cutter
SPECIFICATION:	<ul style="list-style-type: none"> ■ Manual operation ■ 10 mm rods
APPLICATION:	General Engineering

Mechanical Anchors

Throughbolt R-XPT



DESCRIPTION:	R-XPT ETA Option 7 Throughbolt
SPECIFICATION:	<ul style="list-style-type: none"> ■ High performance in non-cracked concrete confirmed by ETA Option 7 ■ M6 – M24 ■ Finish Zinc Plated, Galvanised or A4 ■ Stainless Steel ■ High quality with cost effectiveness ■ Suitable for reduced embedment to avoid contact with reinforcement ■ Embedment depth markings help to ensure precise installation of the anchor ■ Design allows drilling and installing directly through the fixture and helps to reduce installation effort ■ Cold formed body ensures consistent dimensional accuracy ■ Simple through-installation (drilling and installation through fixed material) ■ Optimized expander design with six grip features allows for a high load-bearing capacity
APPLICATION:	Cladding restraint , Curtain wall, Balustrading, Barriers, Handrails, Racking ,Structural steel, Bollards



Throughbolt R-HPTII



DESCRIPTION:	R-HPTII Option 1 Throughbolt
SPECIFICATION:	<ul style="list-style-type: none"> ■ New generation of throughbolt with unique corrosion-resistant coating ■ M8 – M20 ■ Finish Zinc Flake or A4 Stainless Steel ■ High performance in cracked and non-cracked concrete confirmed by ETA Option 1 ■ Highest quality ensures maximum load capability ■ For applications requiring fire resistance up to 120 minutes ■ Suitable for reduced embedment to avoid contact with reinforcement ■ Embedment depth markings help to ensure precise installation of the anchor ■ Design of R-HPTII allows drilling and installing directly through the fixture and helps to reduce installation time
APPLICATION:	Cladding restraints, Consoles, Barriers, Structural steel, Curtain walling, Handrails, Heavy Plant, Balustrading, Passenger lifts, Facades, Racking systems, Platforms, Fencing & gates manufacturing and installation



Epoxy Resins R-KEXII



- DESCRIPTION:** R-KEX II Premium pure epoxy resin approved for use with post-installed rebar connections
- SPECIFICATION:**
- The strongest resin in the epoxy resin class
 - Approved for use with post-installed rebars concrete (EAD 330087-00-0601)
 - Suitable for use in dry and wet substrates including flooded holes
 - High depth of anchoring up to 2,5 m for rebar applications
 - Very high chemical resistance (industrial or marine)
 - Minimal shrinkage provides option of use in diamond-drilled holes and oversized holes
 - Extended working time ensures easy installation (up to 30 min. in 20°C)
 - For use in positive temperatures
 - Diamond and hammer drilling
- APPLICATION:** Safety barriers, Temporary works/ formworks support systems, Rebar, Curtain walling, Formwork support systems, Masonry support, Platforms, Structural steelwork, Rebar dowelling, Starter bars, Rebar missed-outs

Hybrid Resins R-KERII



- DESCRIPTION:** R-KER II High performance hybrid resin approved for use with reinforcement bars
- SPECIFICATION:**
- Approved for use with rebar as an anchor for use in cracked and non-cracked concrete
 - Winter version can be used in warmer temperatures for faster curing
 - Suitable for use in dry and wet substrates as well as holes and substrates covered with water
 - Rapid bonding time enables quick execution of works
 - Very high load capacity
 - Anchor does not generate expansion forces in the concrete which means reduced spacing and edge distances.
 - Suitable for multiple use. Partly used product can be reused after fitting new nozzle
- APPLICATION:** Curtain walling, Balustrading, Barriers, Cable trays, Cladding restraints, Structural steelwork, Rebar dowelling, Starter bars, Rebar missed-outs

Vinylester Resins R-KER



- DESCRIPTION:** R-KER High performance vinylester resin approved for use with reinforcement bars
- SPECIFICATION:**
- Approved for use with rebar as an anchor for use in non-cracked concrete (ETAG001 Option 7)
 - Suitable for use in low temperatures (down to -20°C for winter option) enables use throughout the year
 - Winter version can be used in warmer temperatures for faster curing
 - Suitable for use in dry or wet substrates and water filled holes
 - Rapid bonding time enables quick execution of works
 - Very high load capacity
 - Anchor does not generate expansion forces in the concrete which means reduced spacing and edge distances
 - Suitable for multiple use
- APPLICATION:** Curtain walling, Balustrading, Barriers, Cable trays, Cladding restraints, Structural steelwork, Rebar dowelling, Starter bars, Rebar missed-outs

Polyester Resins R-KEMII



- DESCRIPTION:** R-KEM II Universal polyester (styrene free) resin
- SPECIFICATION:**
- European Approval for 15 substrates
 - The most convenient bonded anchor for general purpose use
 - Quick, secure and simple installation
 - Product with wide spectrum of use in the medium load capacity area
 - Ideal for applications where mechanical anchors are not suitable
 - Easy dosage thanks to patented self-opening system and use of manual or pneumatic gun
 - Option of use standard manual silicone gun
 - Suitable for multiple use. Partly used product can be reused after fitting new nozzle
- APPLICATION:** Consoles, Staircases, Gates, High racking, Canopies, Sanitary appliances, Steel constructions, Railings, Handrails, Ladders, Cable trays

Resin Gun R-GUN



- DESCRIPTION:** R-GUN Dispenser Gun
- SPECIFICATION:**
- Professional dispensing system for resin anchors in cartridges 175-310ml, 345ml, 380ml
 - Manual operation - no need for external power supply
 - Type of gun used for anchoring strictly depends on the type of cartridge
 - Fast and effortless resin injection
 - Convenient dispensing tool for a range of situations
 - Robust design for all jobsite conditions
- APPLICATION:** Concrete and solid masonry structures

Anchors R-RBL



DESCRIPTION: R-RBL Eye Bolt, Hook Bolt, Loose Bolt

SPECIFICATION:

- Three-pieces expanding sleeve of maximum expansion provides optimal load and safety of use in any substrate
- Eye & Hook Bolt: M6-M12
- Eye or Hook Rawlbolts are not suitable for all arrest systems nor shock loading.
- Closed, forged hook for maximum safety.
- Hook designed & manufactured for maximum performance
- Loose Bolt: M6-M16
- For use in cracked and non-cracked concrete (ETA option 1), hollow-core slabs, flooring blocks and ceramics
- Three-pieces expanding sleeve of maximum expansion provides optimal load and safety of use in any substrate

APPLICATION: Safety barriers, Temporary works/ formworks support systems, Rebar, Curtain walling, Formwork support systems, Masonry support, Platforms, Structural steelwork, Rebar dowelling, Starter bars, Rebar missed-outs

Anchors R-RBP



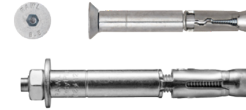
DESCRIPTION: R-RBP All-purpose expanding shield anchor - bolt projecting version

SPECIFICATION:

- M6-M16
- RAWLBOLT® - first ever mechanical anchor in the world
- For use in cracked and non-cracked concrete (ETA option 1), hollow-core slabs, flooring blocks and ceramics
- Three-pieces expanding sleeve of maximum expansion provides optimal load and safety of use in any substrate

APPLICATION: Roller shutter doors, Fire doors, Steelwork, Security grills, Heavy machinery, Pipework/ duct work support

Anchors R-SPL



DESCRIPTION: R-SPL High performance mechanical anchor

SPECIFICATION:

- Countersunk, M8-M16
- Loose Bolt or Projecting Bolt, M8-M20
- High performance in non-cracked concrete confirmed by ETA Option 7
- Design of SafetyPlus allows for easy through fixing
- Integral controlled collapse and anti-rotation feature ensures fixture is firmly secured
- Unique zig-zag feature provides balanced expansion, ensuring secure setting and maximised load-bearing capacity
- Case-hardened nut with optimum taper angle for enhanced expansion
- Fire resistant

APPLICATION: Structural steel, Masonry support, Cladding restraints, Road Signs, Heavy machinery, Racking systems, Industrial doors, Safety barriers

Anchors R-SPL-II



DESCRIPTION: R-SPL-II Mechanical anchor for highest tension and shear loads Seismic category C2 for structural applications. Seismic category C1 for non-structural use in areas with low seismic risk.

SPECIFICATION:

- Countersunk, M6-M12
- Loose Bolt or Projecting Bolt, M6-M16
- Mechanical anchor for highest tension and shear loads
- Seismic category C2 for structural applications. Seismic category C1 for non-structural use in areas with low seismic risk
- For usage with required fire resistance
- ETA Option 1 for cracked and non-cracked concrete
- Anti rotation brush to prevent rotation during installation
- Anchor's construction allows easy through-installation (drilling and installation through fixed material)
- Three types of tips (nut, flat or tapered bolt) allow simple fitment for installed element
- 8.8 grade steel material of anchor provides high durability

APPLICATION: Structural steel, Masonry support, Cladding restraints, Road Signs, Heavy machinery, Racking systems, Industrial doors, Safety barriers

Anchors R-RLK



- DESCRIPTION:** R-RLK All purpose expansion anchor for use in medium weight applications
- SPECIFICATION:**
- Projecting Bolt M6, M8, M10
 - Loose Bolt M8, M10
 - Medium weight applications anchor
 - Anchor designed for optimum performance in most base materials
 - Integral collapse feature to ensure maximum clamping force is applied to the fixture
 - Bolt and drill size marked on sleeve for accurate installation
- APPLICATION:** Radiators, Signs, Stadium seating, Satellite dishes, Wall plates, Shutter, Garage doors

Anchors R-DCA, R-DCL



- DESCRIPTION:** R-DCA, R-DCL Internally threaded wedge anchor for simple hammer-set installation
- SPECIFICATION:**
- M8, M10, M12, M16, M20
 - Lipped edge option
 - High performance in cracked and non-cracked concrete confirmed by ETA
 - Product is covered with European Technical Assessment for multi-point non-structural fixings
 - Product recommended for applications requiring fire resistance
 - Internally threaded to be used with threaded stud or bolt
 - Easy to install by hammer action and manual setting tool
 - Slotted sleeve and internal wedge component together facilitate easy setting and expansion
 - Product was tested for construction fixing
- APPLICATION:** Pipelines systems, Ventilation systems, Sprinkler systems, Cable conduits and wires, Gratings

Setting Tool – R-DCA -ST



- DESCRIPTION:** R-DCA Setting Tool
- SPECIFICATION:**
- M8, M10, M12, M16, M20
- APPLICATION:** For R-DCA and R-DCL wedge anchors

Lightweight Fixings

Insert Fixing R-SM



- DESCRIPTION:** R-SM Insert fixing for permanent anchorages in cavity walls
- SPECIFICATION:**
- M4-M6
 - Suitable for board building materials with a thickness 2-38mm
 - One piece stamping, with integral thread and flange
 - Hinged legs designed to maximise load-bearing capacity
 - Integral anti-rotation lugs
 - Fixtures can be removed and re-fitted
 - Combination head screw supplied
- APPLICATION:** Shelves and bathroom accessories on standard plasterboard, Radiators and kitchen cabinets on double thickness and tiled plasterboard, Pictures, Lamps, Towel rails, Curtain rails, Mirrors

Scaffold Screw R-HR



- DESCRIPTION:** R-HR Scaffold Screw
- SPECIFICATION:**
- M12
 - 90, 120, 160, 190, 230, 300, 350 mm long
 - Scaffold Screw Ring DIN 4420
 - Ring=ID-23mm
 - For use with 14mm plug
- APPLICATION:** Scaffold Anchoring

Masonry Frame Concrete Screw R-WHO



- DESCRIPTION:** R-WHO Special frame screw for window and door installation
- SPECIFICATION:**
- 7.5mm diameter
 - Lengths of 52 to 212 in 10mm increments
 - Cylinder head for flush installation with the window and door frames
 - Expansion-free fixing imposes less stress on substrate during installation
 - High load resistances from a relatively small hole diameter
 - Easily removed for temporary works
- APPLICATION:** Door and window frames, Securing formwork, Suspended ceilings, Lightweight steel angles, Timber constructions

Self Drilling Screw WAF



- DESCRIPTION:** WAF Waferhead Zippie Self Drilling Screw
- SPECIFICATION:**
- Zinc plated Waferhead Zippie
 - 4.2mm x 13mm
 - 4.2mm x 25mm
- APPLICATION:** Steelwork, Cladding, Signs

Concrete Screw R-WBT



DESCRIPTION:	R-WBT Screw for concrete substrates, TX25 head
SPECIFICATION:	<ul style="list-style-type: none"> ■ 6.1mm diameter ■ Lengths of 140, 160, 200, 260, 300 mm ■ Shape and type of the thread specially design to allow connecting to concrete and wood ■ Hardened thread surface ■ High quality anti-corrosion coating guarantees resistance of 15 Kesternich cycles ■ Shape and type of the thread specially design to allow connecting to concrete and wood ■ The drill point is designed to provide a fast and hassle-free installation. Sharp point of the drill prevents movement of the surface of the fixture ■ Pre-assembly with other component is possible before installation
APPLICATION:	Insulation materials in flat roof applications in conjunction with telescopic connector and steel washer. Approved in Concrete and Wood

Insulation Fixing TFIX-8M



DESCRIPTION:	T-FIX 8M Versatile hammer-in facade fixing with steel nail recommended for ETICS.
SPECIFICATION:	<ul style="list-style-type: none"> ■ M8 ■ Lengths of 95, 115, 135, 155, 175, 195, 255 mm ■ Simple installation in all standard substrates (A,B,C) ■ Excellent plate stiffness (value 1.0 kN/mm) ensures smooth elevation surface and stable insulation system ■ The long plastic overmoulding on the TFIX-8M nail minimises thermal bridging (value 0.002W/K), contributing to energy-saving benefits ■ Unique nail design allows for high load-bearing capacities. This reduces the quantity of fixings required per m2 of insulation ■ The shortest embedment depth at the maximum strength parameters ■ Pre-assembled expansion nail saves time and labour ■ Can be used with additional KWL insulation holding plate, available in 90, 110 and 140mm flange sizes (recommended for soft insulation materials such as mineral wool)
APPLICATION:	External Thermal Insulation Composite Systems (ETICS), Polystyrene (EPS) boards, Mineral wool (MW) boards, Light wood wool building boards, Polyurethane (PU) boards, Cork boards

Insulation Fixing Metal – MBA



DESCRIPTION:	MBA Fire-resistant metal insulation fixing
SPECIFICATION:	<ul style="list-style-type: none"> ■ M8 ■ Lengths of 60, 90, 110, 140, 170 mm ■ Steel or Stainless Steel options ■ Metal facade fixing, recommended for use when fire resistance (F120) is a requirement ■ Fast and simple hammer-set installation reduces working times ■ Extensive dimensional range allows anchorage of insulation boards up to 250mm thick ■ Accessory spreader plate, MKC (80mm diameter) also available for installation of soft insulation materials such as mineral wool
APPLICATION:	Mineral wool (MW) boards, Glass wool, Lightweight wood wool building boards, Lightweight recycled panels, Polystyrene (EPS) boards, Polyurethane (PU) boards

Frame Fixing – R-FF



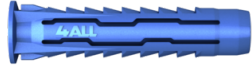
DESCRIPTION:	R-FF Universal frame fixing with collar and stainless steel screw for many applications
SPECIFICATION:	<ul style="list-style-type: none"> ■ M10 ■ Lengths of 100, 140, 160 mm ■ Collar Hex Head, Countersunk ■ Zinc Plated, Zinc Flake or Stainless Steel ■ Specially-formulated nylon allows best performance installation for use in all base material categories according to ETAG 020 (A, B, C, D) ■ Internal plug geometry designed to fit the screw head ■ Plug design ensures multi-axis expansion
APPLICATION:	Door and window frames, Garage doors, Gates, Industrial doors, Facade (substructures made of wood and metal), Wall cabinets, Satellite dishes, Shelves, Handrails, Cable tray

Flexi Plug – R-NT



DESCRIPTION:	R-NT Easy-to-install plug giving exceptional resistance to vibration and corrosion
SPECIFICATION:	<ul style="list-style-type: none"> ■ M6 x 35 ■ Resistant to vibration and corrosion ■ Ideal for unknown substrates and irregular or oversized holes ■ Rubber flange sets flush at the surface which guarantee tight fixing ■ Made from synthetic rubber for more severe corrosion environment ■ Bonded brass insert
APPLICATION:	Lighting, Shelves, Trunking, Cable trays, Electrical fittings, Brackets, grips and hooks, Pictures

Nylon Plug – 4ALL



- DESCRIPTION:** 4ALL High performance nylon plug for all types of substrates
- SPECIFICATION:**
- 5x25, 6x30, 8x40, 10x50, 12x60, 14x70
 - Unique internal design provides positive grip for screws
 - Anti-rotational lugs promote grip in wide range of substrates including soft masonry materials
 - Rib detail at plug head provides added grip
 - Expanding section designed to collapse in hollow materials and provide positive grip behind surfaces
 - Unique 4 way expansion allowing application in any substrate material and type
 - Solid head design provides strength whilst plug is installed
- APPLICATION:** Lighting, Wall cabinets, Wardrobes, Letterboxes, TV brackets, Bathroom fittings, Electrical fittings, Shelves

Nails – Washered - TMW



- DESCRIPTION:** TMW Nail with washer
- SPECIFICATION:**
- Steel
 - 3.7mm diameter
 - Lengths of 25, 30, 40, 50, 60, 75 mm
 - Washer moves down nail as it is hammered in
- APPLICATION:** Pictures, Signs, PVC/Steel channelling

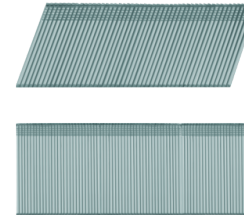
Gas Actuated Products

Gas Powered Framing Nailer – R-RAWL-WW90CH



- DESCRIPTION:** R-RAWL-WW90CH High performance gas powered framing nailer for timber framing and roofing applications
- SPECIFICATION:**
- Nail range from 50mm to 90mm
 - Removable no mark nose for protecting the timber surface.
 - Sequential firing mode for operators safety and fixing precision
 - Rear loading magazine with a capacity of 60 nails.
 - Tool free depth adjustment.
 - LED display
 - Low failure rate provides low running cost of the system
 - The only device available on the market certified by TUV Rheinland
- APPLICATION:** Timber frame stud work, battens and sheeting in roof construction, manufacturing of timber structure, soffits, wooden facades, timber flooring

Nails Brads - R-BRADS



- DESCRIPTION:** R-BRADS Nails
- SPECIFICATION:**
- Straight: 16 gauge; 16,19, 25, 32, 38, 45,50, 64 mm (Optional 2 cells pack)
 - Angle: 20 Degree, 16 gauge; 32, 38, 50, 64 mm (Optional 2 cells pack)
 - Smooth nail shank for low penetration resistance
 - Chisel point to prevent timber from splitting
 - T type head for concealed fixing
 - Available in galvanised or stainless steel for higher corrosion protection
- APPLICATION:** Wooden facades and other external trim applications, Soffits and other roof finishing elements, Skirting, architraves and other internal trim Fixing

Gas Nailer – GMC38



- DESCRIPTION:** R-RAWL-GMC38 Gas powered joist hanger nailer
- SPECIFICATION:**
- Nail range from 35 to 60mm
 - Sequential firing mode for operators safety and fixing precision
 - Nose with probe mechanism tip locates in the pre-drilled hole for a precise and quick fixing.
 - Capable of accepting both paper and plastic collated nails
 - Rear loading magazine with a capacity of 60 nails
 - Tool free depth adjustment.
 - LED display
- APPLICATION:** Metal connectors, Truss Supports & Angled Joints, Perforated steel tapes

R-RAWL-SC40II Gas Powered Steel and Concrete Nailer



DESCRIPTION: R-RAWL-SC40II Gas Powered Steel and Concrete Nailer

- SPECIFICATION:**
- Pin range from 15mm to 38mm provides wide range of application
 - Simplified depth adjustment design provides the end user with easy but accurate depth of drive control.
 - Removable magnetic nose tip for attaching metal clips and ceiling hangers. User can safely and comfortably perform in all overhead applications
 - Compact and ergonomic design allows the operator to achieve great accessibility and freedom of operation
 - Rear loading lightweight plastic magazine with a capacity of 30 pins provides durability and accessibility
 - Sequential firing mode for operators safety and fixing precision
 - Low weight provides end user with high level of comfort and working experience.
 - Quick release mechanism provides easy access to the magazine for removing obstructions and performing routine maintenance
 - Lithium technology alongside with energy saving features ensures high capacity and performance of the system

APPLICATION: Steel and aluminium profiles in drywall structures, Cable conduits and wires installation, M&E clips and clamps

Gas Fuel Cells – GP1, GP2, GP3, GP4



DESCRIPTION: Fuel cell for use in R-RAWL gas powered nailers

- SPECIFICATION:**
- GP1: Fuel cell for use in R-RAWL-WW90CH gas powered nailer
 - GP2: Fuel cell for use in R-RAWL-SC40 gas powered nailer
 - GP3: Fuel cell for use in Pulsa 700 type gas nailers
 - GP4: Fuel cell for use in second fix nailers
 - Clean Propane & Butane mixture reduces carbon residue
 - High quality propellant for increased performance
 - Contains a fully synthetic oil for lubricating the tool
 - Functions from -5°C to 35°C
 - Manufactured in accordance with European Regulations

APPLICATION: Powering gas powered nailers

Drilling & Cutting

HSS Drill Bit



- DESCRIPTION:** HSS Drill Bit
- SPECIFICATION:**
- 2 – 16 mm diameter
 - 5% cobalt option
- APPLICATION:** Steel, Stainless Steel, Plastic

CSK Drill



- DESCRIPTION:** HSS Countersunk Drill Bit
- SPECIFICATION:**
- 6.3 – 20.5 diameter
- APPLICATION:** Steel, Stainless Steel, Plastic

Bi-Metal Holesaw



- DESCRIPTION:** Bi-Metal Holesaw
- SPECIFICATION:**
- 16 – 127 mm diameter
 - 8% Cobalt
- APPLICATION:** Sheet, steel, plastic, wood

SDS Drill 2 Cutter



- DESCRIPTION:** SDS Drill 2 Cutter
- SPECIFICATION:**
- A centring tip with "Z" geometry
 - A wave profile with 3 effective supporting points
 - The new flute offers 2 shape designs: half-round and square
 - Compatible SDS-plus shank 5,5 – 30 mm diameter
 - Lengths of: 110 – 610 mm
- APPLICATION:** Steel, Stainless Steel, Plastic

SDS Drill 3 Cutter



- DESCRIPTION:** SDS Drill 3 Cutter
- SPECIFICATION:**
- Monobloc carbide tip with self-centering point
 - Tip angle 135°
 - 3 cutting edges
 - Half-round flute
 - Depth stop
 - Compatible SDS-plus shank
 - 5.0 – 20 mm diameter
 - Lengths of: 110 – 460 mm
- APPLICATION:** Steel, Stainless Steel, Plastic

SDS-MAX ULTIMAX 646



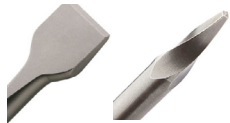
DESCRIPTION: SDS-MAX ULTIMAX 646

SPECIFICATION:

- The massive compact monobloc head of our new ULTIMAX 646 drill bit combines 10 working cutters and 50% more carbide weight. These technical features result in unmatched speed and robustness for extreme lifetime
- For hole sizes 12 – 50 mm
- Drills through oversized rebar, up to Ø22mm
- Up to 1000 holes
- High speed drilling
- Ideal for powerful hammer drill

APPLICATION: Reinforced concrete, rock, concrete, stone, granite, brick

SDS Max Chisel



DESCRIPTION: SDS Max Chisel

SPECIFICATION:

- Flat Chisel
- Helical Pointed Chisel
- 12 – 50 mm

APPLICATION: Concrete, granite, stone, brick

Core Drill



DESCRIPTION: Diamond Core Drill

SPECIFICATION:

- Hard material connection 1 1/4 UNC
- 51 – 300 mm diameter
- 400 mm length

APPLICATION: Reinforced concrete, concrete, granite, stone, brick

Rotabor Cutter



DESCRIPTION: Rotabor Cutter

SPECIFICATION:

- M12-M36
- Core drill HSS with weldon shank (3/4"), CBN ground

APPLICATION: Steel (such as T-brackets, large sheets), cast iron, non-ferrous and light metals

Magnetic Bit Holder



DESCRIPTION: Magnetic Bit Holder

SPECIFICATION:

- Quick lock attachment for optimum holding in the chuck
- Permanent magnet
- Hexagonal drive

APPLICATION: Screwdriver Bits

Screwdriver Bits



DESCRIPTION: Screwdriver Bits

SPECIFICATION:

- Pozi Drive PZ1 – PZ4
- Phillips Drive Bits PH1 – PH4
- Torx Bits T10 – T40
- Slot 4x25 – 8x25

APPLICATION: Screwdriver

Cup Brush



DESCRIPTION: Cup Brush

SPECIFICATION:

- CUP TK 65D 0.50 SRS M14X2
- CUP Crimped 100D 0.30 CSW M14X2

APPLICATION: Stainless steel

Cutting Disc INOX AS60T



DESCRIPTION: Inox Cutting Disc

SPECIFICATION:

- 4.5" Flat or Dep Centre
- 4 1/2 x 1/25 x 7/8 Inches
- 9" Dep Centre
- 9 x 5/64 x 7/8 Inches

APPLICATION: Stainless steel

Cutting Disc A24R Perfect



DESCRIPTION: Cutting Disc A24R Perfect

SPECIFICATION:

- 4.5" Dep Centre, 3mm thick
- 4 1/2 x 1/8 x 7/8 Inches
- 9" Dep Centre, 3 mm thick
- 9 x 1/8 x 7/8 Inches

APPLICATION: Steel, stainless steel

Cutting Disc CS60 Alu



DESCRIPTION: Cutting Disc CS60

SPECIFICATION:

- 4.5" Straight Cutting Disc
- 4 1/2 x 3/64 x 7/8 Inches

APPLICATION: Aluminium and non-ferrous metals such as copper, brass, bronze

Grinding Disc A30T



DESCRIPTION: All purpose disc

SPECIFICATION:

- 4.5" Dep Centre
- 4 1/2 x 1/4 x 7/8 Inches
- 9" Dep Centre
- 9 x 1/4 x 7/8 Inches

APPLICATION: Metal, sheet steel, construction steel, welding seams

Grinding Disc AS30S Inox



DESCRIPTION:	High Alloy Grinding Disc
SPECIFICATION:	<ul style="list-style-type: none"> ■ 4.5" Dep Centre ■ 4 1/2 x 1/4 x 7/8 Inches ■ 9" Dep Centre ■ 9 x 1/4 x 7/8 Inches ■ 12" Dep Centre ■ 12 x 1/8 x 7/8 Inches ■ 12 x 1/8 x 3/4 Inches
APPLICATION:	High alloy special steel or stainless steel

Flap Disc



DESCRIPTION:	Flap Disc
SPECIFICATION:	<ul style="list-style-type: none"> ■ 4.5" Flap Disc ■ 40, 60, 80, 120 Grits
APPLICATION:	Preparing welding seams or cleaning or polishing surfaces

Aluminium Disc CS46 ALU



DESCRIPTION:	Aluminium Cutting Disc
SPECIFICATION:	<ul style="list-style-type: none"> ■ 9" Dep Centre ■ 9 x 5/64 x 7/8 Inches
APPLICATION:	Aluminium and non-ferrous metals such as copper, brass, bronze. Also suitable for most synthetic materials

Freehand AS30V



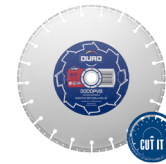
DESCRIPTION:	Evolution Disc
SPECIFICATION:	<ul style="list-style-type: none"> ■ 9" Dep Centre ■ 9 x 1/8 x 7/8 Inches
APPLICATION:	Construction steel, thin-walled profile sections, pipes

Freehand AS24R Railway



DESCRIPTION:	Freehand AS24R Railway
SPECIFICATION:	<ul style="list-style-type: none"> ■ 14" Flat Cutting Disc ■ 14 x 5/32 x 1 Inches
APPLICATION:	Cutting new and compressed rail sections (e.g. UIC 60, S54 or S49)

Vacuum Brazed Blades



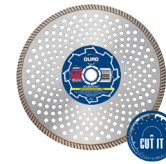
DESCRIPTION:	Double segmented, vacuum brazed diamond blade
SPECIFICATION:	<ul style="list-style-type: none"> ■ Diameter 115mm (4.5") ■ Bore: 22.23 mm
APPLICATION:	Concrete – Reinforced & with exposed aggregate / Paving / Indian stone / Quarry slabs / Granite slabs & bricks / Cast iron / Sheet metals / Non-ferrous metals / Ducting / Plastics / Glass / Fibreglass / Rubber / Wood / Carbon fibre / Railway sleepers

Metal Cutting Diamond Blade



DESCRIPTION:	High performance vacuum brazed diamond blade
SPECIFICATION:	<ul style="list-style-type: none"> ■ Diameter 115mm (4.5"), Bore: 22.23 mm ■ Diameter 230 mm (9"), Bore: 22.23 mm ■ Diameter 300 mm (12"), Bore: 20.0 mm
APPLICATION:	For all Metal Forms up to 40mm Thick FERROUS: Steel / Sheet metal / Stainless steel / Rebar / Cast iron / All carbon steels / Tool steel / Alloy steels NON-FERROUS: Alloys / Nickel alloys / Copper & Brass / Zinc & Tin / Magnesium / Lead / Titanium / Tungsten & Iridium

Construction Materials & Metal Blade



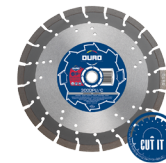
DESCRIPTION:	A turbo rim blade with special cooling holes and a reinforced flange centre for increased stability, blade cooling and less chipping. Fast cutting with long life.
SPECIFICATION:	<ul style="list-style-type: none"> ■ Diameter 230 mm (9"), Bore: 22.23 mm
APPLICATION:	Indian stone / Granite / House bricks / Class A Engineering bricks / Clay products / All reinforced concrete types / Ferrous metal sections up to 5mm gauge / Concrete kerbs, beams, lintels & flags / Occasional use in asphalt & abrasive materials

Universal Concrete & Building Materials Blade



DESCRIPTION:	A blade with 10mm Pro Turbo segments. 30-degree sloping gullets and the ability to cut small metal sections. Long life and fast cutting speeds.
SPECIFICATION:	<ul style="list-style-type: none"> ■ Diameter 300 mm (12"), Bore: 20.0 mm
APPLICATION:	Hard bricks / Lightly reinforced concrete / Concrete kerbs, beams, lintels & flags / Facing bricks / General purpose / Small metal sections

Universal Concrete Blade



DESCRIPTION:	High performance laser welded blade with a 30-degree in-line gullet design to clear debris faster and improve life. Fast cutting with market leading product life.
SPECIFICATION:	<ul style="list-style-type: none"> ■ Diameter 300 mm (12"), Bore: 20.0 mm
APPLICATION:	Indian stone / Granite / Clay products / Class A Engineering bricks / All reinforced concrete types / Concrete kerbs, beams, lintels & flags / Bricks / Occasional use in asphalt & small metal sections

Cup Grinder



DESCRIPTION: An entry level double row cup grinder
SPECIFICATION: ■ Diameter 115mm (4.5"), Bore: 22.2 mm
APPLICATION: Good life and stock removal in concrete and medium hard stone

Turbo Diamond Grinder



DESCRIPTION: A pro-line turbo style cup grinder
SPECIFICATION: ■ Diameter 115mm (4.5"), Bore: 22.2 mm
APPLICATION: High stock removal and good life in concrete and medium hard stones

Wood Circular Saw Blade



DESCRIPTION: A range of tungsten carbide tipped circular saw blades
SPECIFICATION: ■ Diameter: 165 to 300 mm
 ■ 24 or 40 Teeth
APPLICATION: Soft wood / Hard wood / Plasterboard / Stone fibre board / Particle board and much more. Do not use on metal.

ULTRA Diamond Tile Drills



DESCRIPTION: ULTRA diamond drill with a brazed bond matrix giving the ability to drill the hardest porcelain tiles practically DRY
SPECIFICATION: ■ Diameter: XX to XX
APPLICATION: Porcelain (grade 5) / Ceramic / Quarry tiles / Terracotta / Glazed tiles / Terrazzo / Marble / Agglomerates / Cement / Glass / Granite

Diamond Jigsaw Blade



DESCRIPTION: A tough and rugged diamond grit jigsaw blade
SPECIFICATION: ■ 80mm o/a length – 50mm working length
APPLICATION: Travertine / Marble / Slate / Ceramic tile / Porcelain tile / Granite / Glass / Cast iron / Fibreglass / Cement board / Carbon fibre / Laminate flooring

Diamond Recip Saw Blade



DESCRIPTION: A tough and rugged diamond grit reciprocating blade
SPECIFICATION: ■ 200mm o/a length
 ■ 180mm working length
APPLICATION: Cast iron / Fibreglass / Cement board / Carbon fibre / Common house brick / Building block (lightweight 7N limit) / Paving / Can also be used as a demolition blade.

High Performance Screws

Timberfix 360° Premium Woodscrew



DESCRIPTION: The 'all-round'- performer. Countersunk pozi recess, hardened, ZYP.
SPECIFICATION: ■ Diameter: 3.5mm ~ 6.0mm
 ■ Length: 15mm ~ 200mm
 ■ Box Qty: 100 ~ 200
 ■ CE marked to EN14592:2008+A1:2012
 ■ T-drive range also available
APPLICATION: Reinforced head with ribs. Shank ribs to reduce drive torque. Innovative thread geometry ~ reduced splitting. Next Generation lubricant system.



Timberfix 360° Plastic Grab and Go Case



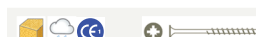
DESCRIPTION: Robust plastic selection case with 9 compartments.
SPECIFICATION: ■ contains approx. 1000 pieces of timberfix 360 performance screws
 ■ CE marked to EN14592:2008+A1:2012



Timberfix 360° Tub Range



DESCRIPTION: countersunk pozi performance screws in robust reusable tubs.
SPECIFICATION: ■ 3.5 , 4.0 , 4.5 , 5.0 or to customer requirements
 ■ Lengths: various
 ■ Tub qty: various on screw size
 ■ CE marked to EN14592:2008+A1:2012
APPLICATION: Reinforced head with ribs. Shank ribs to reduce drive torque. Innovative thread geometry ~ reduced splitting. Next Generation lubricant system.



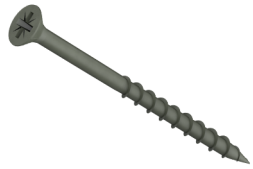
Timberfix® & Timberfix® Plus



DESCRIPTION: Hex drive structural timber screw. Natural brown high tech coating.
SPECIFICATION: ■ Diameter: 6.3mm ~ 8.0mm
 ■ Length: 65mm ~ 250mm
 ■ Box Qty: 50
 ■ Blister packs of 10
 ■ CE marked to EN14592:2008+A1:2012
APPLICATION: Up to 1000 hr salt spray resistance. No pre-drilling in most timbers. ACQ resistant coating. Type 17 point to reduce drive torque.



Deckfix® Countersunk Decking Screw



DESCRIPTION: Countersunk pozi decking screw. High tech green corrosion resistant coating.

- SPECIFICATION:**
- Diameter: 4.5mm
 - Length: 50mm ~ 100mm
 - Box qty: 100 ~ 200
 - CE marked to EN14592:2008+A1:2012

APPLICATION: Point of sale stand deals available. Self countersinking. Coarse thread gives faster drive time. Packed in two-part box with window.



Prostruct Structural Screw



DESCRIPTION: Prostruct Structural Screw

- SPECIFICATION:**
- Specially engineered for UK timber sizes*
 - ETA approval pending from German test house, CE marked
 - Complies with RoHS & REACH
 - Special steel moves with the wood
 - Special thread geometry drives in quicker & gives better pull out resistance
 - Large diameter head improves resistance to head pull through
 - Zinc plated 500hrs salt spray coating - service class 1 & 2 of Eurocode 5
 - T+ head marking & screw length on head
 - Driver bit in every box

APPLICATION: Timber frame construction

Nylon Plug



DESCRIPTION: Nylon Plug

- SPECIFICATION:**
- 4 x 20 mm
 - 5 x 25 mm
 - 6 x 30 mm
 - 8 x 40 mm
 - 10 x 50 mm

APPLICATION: Can be used with wood screws, chipboard screws and metric screws. Suitable for holding pictures, lamps holders, profiles, substructures, electric switches, rails

HELFAST Autofeed Screwdriver (Optional PAM Motor FS2500)



DESCRIPTION: HELFAST 55 and 75 For MAKITA FS

- SPECIFICATION:**
- HELFAST 55 Autofeed Attachment
 - Handles screws from 3,5 - 5,5 shank diameter, 25 - 55 mm length
 - With original depth adjustment nose from MAKITA to handle loose screws. 4000rpm - the best for drywall
 - HELFAST 75 Autofeed Attachment
 - Handles screws from 3,5 - 5,5 shank diameter, 25 - 75 mm length
 - With original depth adjustment nose from MAKITA to handle loose screws.

APPLICATION: drywall, wood to wood or steel framing application

Sub Flooring Screws PSFC51E



DESCRIPTION: PSFC51E Sub Flooring Screw

- SPECIFICATION:**
- 4.2X51mm Collated Sub-Flooring Screws
 - To fit PAM Drive

APPLICATION: Sub Flooring

Drywall Screws

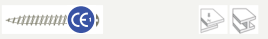
Drywall Screw Sharp Point : Fine Thread



DESCRIPTION: Bugle head, Phillips Recess, Hardened, Phosphate and BZP finishes available

- SPECIFICATION:**
- Diameter: 3.5mm ~ 4.8mm
 - Length: 25mm ~ 125mm
 - Box Qty: 200 ~ 1000
 - Outer Qty: 2400 ~ 16000
 - Free driver bit in each box
 - CE marked to EN14566:2008+A1:2009

APPLICATION: Ideal for securing boards to wood or steel studding up to 0.84mm thick.



Drywall Screw Sharp Point : Coarse Thread



DESCRIPTION: Bugle head, Phillips Recess, Hardened, Phosphate

- SPECIFICATION:**
- Diameter: 3.5 mm ~ 4.2mm
 - Length: 25mm ~ 75mm
 - Box qty: 500 ~ 1000
 - Outer qty: 4000 ~ 16000
 - Free driver bit in each box
 - CE marked to EN14566:2008+A1:2009

APPLICATION: Ideal for securing boards to wooden studding.



Drywall Screws Wafer Head



DESCRIPTION: Wafer Head Phillips Recess, Hardened, Self Drilling point, BZP Finish.

- SPECIFICATION:**
- Diameter: 4.2mm
 - Length: 13mm ~ 35mm
 - Outer Qty: 12000 ~ 16000
 - Free driver bit in each box
 - CE marked to EN14566:2008+A1:2009

APPLICATION: A metal to metal fixing, ideal for constructing metal stud partitioning



Collated Drywall Sharp Point



DESCRIPTION: Coarse and Fine thread available, phosphate.

- SPECIFICATION:**
- Length: 25mm ~ 75mm
 - Box Qty: 1000
 - Outer Qty: 5000 ~ 12000
 - CE marked to EN14566:2008+A1:2009

APPLICATION: Universal system suitable for most types of driver gun including Makita, Senco, Ryobi, Hilti and Hitachi etc. Flush seating of the screws in the strip ensures they are kept at a 90 degrees angle to reduce jamming. Autofeed screwdriver bits now available, lengths 125mm ~ 150mm.



Construction Screws

Masonry Frame Screw



DESCRIPTION: CSK Head, T-30 Drive, Milled notches, Milled ribs. Needle point lead thread ZYP. Medium duty, self tapping fixing suitable for the through fixing of wood, metal and PVCu frames to masonry.

- SPECIFICATION:**
- Diameter: 7.5mm
 - Length: 42mm ~ 182mm
 - Box Qty: 100
 - Outer Qty: 400 ~ 1800
 - Free driver bit in each box
 - Longer length available within Mungo range

APPLICATION: Masonry, concrete



Solar Panel Fixings



DESCRIPTION: Solar Panel Fixings

- SPECIFICATION:**
- M8 x160, x200, x250
 - M10 x200, x250, x300
 - M12 x200, x300
 - A2 St. Stl. c/w 3 Hex Flange Nuts and
 - EPDM Washer & A/F Hex Drive

APPLICATION: Solar Panels

Self Tapping Screws

Self Tapping Screws



DESCRIPTION: Self Tapping Screws

- SPECIFICATION:**
- Countersunk Posi Drive
 - Pan Posi
 - No 4. – No 14.
 - Lengths of ¼" to 3"
 - BZP, St. Stl.

APPLICATION: Plastics, Wood

Drill Screws

Ferrotek® Drill Screws

Manufactured in a factory approved to both ISO and automotive TS16949 standards, our Ferrotek® range of drill screws have been designed for optimum performance.

Made from quality hardened steel, the drilling tip is of a special design for quick starting and fast drilling.

Shank ribs and thread notches on the heavy section screws reduce drive torque and remove metal swarf more effectively.

A type 17 (gash point) on the timber screws allow for faster driving with less effort.

Our high performance Ferroseal™ coating is an advanced finish, developed in the US for the rigors of the automotive industry.

It exceeds 1000 hour salt spray resistance to ASTM B117 and 15 cycles Kesternich (acid rain) testing.

The coating is a 15-20 micron three part process combining a zinc and aluminium rich system to produce a durable protective finish with self lubricating properties thus reducing heat and drive torque.

Finally the range is packed in colour coded bags for attractive merchandising and is resistant to damp conditions on site whilst minimising packaging waste.

HC Hex. Head – Light Section (No Washer)

HC(G16) Hex. Head – Light Section (with 16mm Galv. Bonded Washer)



DESCRIPTION: Hexagon washer flange with undercut. No.3 self drilling point.

SPECIFICATION:

- 4.8 ~ 5.5 dia.
- Lengths 16mm ~ 51mm
- 1000hr Ferroseal coating
- Bag qty: 100

APPLICATION: Sheet to steel rails and purlins (cold rolled).



HH Hex. Head – Heavy Section (No Washer)

HH(G16) Hex. Head – Heavy Section (with 16mm Galv. Bonded Washer)



DESCRIPTION: Hexagon washer flange with undercut. No.4 and No.5 self drilling point.

SPECIFICATION:

- 5.5 dia.
- Lengths 25mm ~ 100mm
- 1000hr Ferroseal coating
- Bag qty: 50~100

APPLICATION: Sheet to steel rails and purlins (hot rolled).



HS(G16) Stitching Screws (with 16mm Galv. Bonded Washer)



DESCRIPTION: Hexagon washer flange with undercut. No.1 (reduced) self drilling point.

SPECIFICATION:

- 6.3 x 22mm
- 8.0 x 25mm
- 1000hr Ferroseal coating
- Bag qty: 100

APPLICATION: Sheet to sheet.



General Construction Screws HS CR3, HC CR3



DESCRIPTION: Hexagon washer flange with undercut. Self drilling point.

SPECIFICATION:

- 4.2 x 13mm
- 4.8 x 16mm
- 4.8 x 19mm No.3 self drilling point
- 5.5 x 25mm No.3 self drilling point
- Cr3 coating
- Box qty: 500 ~ 1000

APPLICATION: Assembly and fabrication of heating and ventilation systems.



PC Composite Panel Screws – Light Section (with 19mm Galv. Bonded Washer)
 PH Composite Panel Screws – Heavy Section (with 19mm Galv. Bonded Washer)
 PT Composite Panel Screws – Type 17 Point (with 19mm Galv. Bonded Washer)



DESCRIPTION: High thread, hexagon washer flange with undercut.

SPECIFICATION:

- 5.6dia Lengths 60mm~125mm (light section)
- 85mm ~ 150mm (heavy section)
- 60mm ~ 150mm (Type 17point)
- Bag qty 50 ~ 100

APPLICATION: Composite panel to steel rails and purlins.



HT Hex. Head Sheet to Timber Screws (with 16mm Galv. Bonded Washer)



DESCRIPTION: Hexagon washer flange with undercut. Type 17 (gash) point.

SPECIFICATION:

- 6.3 x 25mm
- 6.3 x 32mm
- 6.3 x 45mm
- 1000hr Ferroseal coating
- Bag qty: 100

APPLICATION: To suit 5.5 dia. screw.



Moulded Head Drill Screws



DESCRIPTION: Moulded head Tek/stitching screws.

SPECIFICATION:

- 6.3 x 22mm
- 6.3 x 45mm
- Available in carbon steel and stainless steel
- Head colours of Green, Blue, White, Grey

APPLICATION: Steel to timber, Light and heavy steel, Composite panel screws.

EPDM Washers



DESCRIPTION: Galvanised EPDM bonded washer.

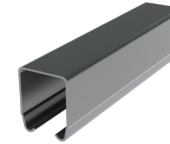
SPECIFICATION:

- 16mm
- 19mm
- 25mm
- Box qty: 1000

APPLICATION: To suit 5.5 dia. screw.

Agri Sector

Door Track



DESCRIPTION: Kwik Track Door Track KT300

SPECIFICATION:

- Material: BS EN 10327 Grade DX51D
- Lengths of 3m, 4m, 5m, 6m

APPLICATION: Agri Buildings, General Construction

Door Track Hanger



DESCRIPTION: Kwik Track Door Track Hanger

SPECIFICATION:

- M16X100 Threaded
- Material: Galvanized steel sheet body with galvanized steel forged strap bolt and nuts
- Part Number: KMP300

APPLICATION: Agri Buildings, General Construction

Door Track Bracket



DESCRIPTION: Kwik Track Door Steel Bracket

SPECIFICATION:

- Material: Galvanized steel body
- Part Number: KSK301

APPLICATION: Agri Buildings, General Construction

Agri Screw



DESCRIPTION: Agri Screw

SPECIFICATION:

- KWIK-FIX 5.5x75 Hex Head (5/16") AGRI
- Screw c/w 16mm Galv. Bonded Washer, 25mm Thread
- Painted RAL 9005 with extra paint protection
- Part Number: KFAGRI55

APPLICATION: Agri Buildings, General Construction

Roofing Nails



DESCRIPTION: Roofing Nail c/w EPDM Washer

SPECIFICATION:

- Kwik-fix galv./black roofing nail c/w EPDM cut washer
- 3.7 x 75mm
- 3.7 x 100 mm

APPLICATION: Agri Buildings, Roofing

Cup Square Bolts & Nut



DESCRIPTION: Cup Square Bolts & Nut

SPECIFICATION:

- Cup square Bolts & Nuts DIN 603/555
- Zinc plated to EN4042 a2e (5um)
- M12x100

APPLICATION: Agri Buildings

Fibre Cement Screw



DESCRIPTION: Fibre Cement Screw

SPECIFICATION:

- Hex head (5/16") fibre cement screw No. 3pt for light steel/timber c/w stainless baz washer & reaming wings
- 14g/6.3 x 105, 125, 130
- Optional in Stainless Steel

APPLICATION: Agri Buildings

Throughbolt



DESCRIPTION: Throughbolt

SPECIFICATION:

- Throughbolt BZP
- M8 x 60, 80, 100
- M10 x 60, 80, 100, 125
- M12 x 80, 100, 120, 150
- M16 x 100, 130, 150, 180
- M20 x 125, 150, 160, 200, 220, 270
- M24 x 180

APPLICATION: Agri Buildings

Rivets



DESCRIPTION: Rivets

SPECIFICATION:

- Standard Rivet, Alu/Steel or SS.
- Optional Dome or Countersunk Heads
- Optional coloured heads: Blue, Green, Red, Cream
- Dia: 3.0, 3.2, 4.0, 4.8, 5.0, 6.0
- Lengths: 6 – 45 mm

APPLICATION: Sheet Metal

Multi-Monti Masonry Anchor

Multi-Monti Countersunk Head



DESCRIPTION: The first screw anchor with ETA option 1 approval.

SPECIFICATION:

- Diameter: 5mm ~ 7.5mm
- Length: 30mm ~ 160mm
- Box qty: 50 ~ 200
- CE marked in accordance with ETA 05/0010

APPLICATION: Stress free installation in brick, stone and block. Close to edge & close grouped installation. Convenient T-drive. Through fixing saves time and money. ETA 05/0010 – Please refer to price list / technical manual for applicable sizes.



Multi-Monti A4 Stainless Steel

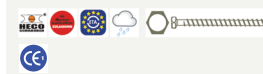


DESCRIPTION: The first stainless steel screw anchor with ETA option 1 approval.

SPECIFICATION:

- Diameter: 7.5mm ~ 12mm
- Length: 65 ~ 120mm
- Box qty: 25 ~ 50
- CE marked in accordance with ETA 05/0011

APPLICATION: Ideal for use in extreme environments. Reusable, ideal for maintenance situations. Bi-metal design for reliability. ETA 05/0011 – Please refer to price list / technical manual for applicable sizes.



Multi-Monti A4 Stainless Steel Countersunk



DESCRIPTION: The first stainless steel screw anchor with ETA option 1 approval.

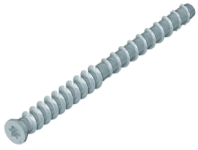
SPECIFICATION:

- Diameter: 7.5mm ~ 12mm
- Length: 65 ~ 120mm
- Box qty: 25 ~ 50
- CE marked in accordance with ETA 05/0011

APPLICATION: Ideal for use in extreme environments. Reusable, ideal for maintenance situations. Bi-metal design for reliability. ETA 05/0011 – Please refer to price list / technical manual for applicable sizes.



Multi-Monti TC Timber Connect



DESCRIPTION: The perfect combination of screw anchor and wood screw.

SPECIFICATION:

- Sizes in the range of: 7.5 x 100
- 10 x 130
- 12 x 160

APPLICATION: Ideal for securing wood components to solid masonry and concrete. Transmission of high tensile and shear forces without any additional construction measures. Can be countersunk, so a single length covers a large number of timber thicknesses. Ideal for sole plates.

Hex + Washer



DESCRIPTION: Hex + Washer. Hexagon head including washer DIN 440 BZP.

SPECIFICATION:

- 12.0 x 180 ~ 320
- Length: 16mm ~ 100mm

APPLICATION: Soleplate anchor.



Studbolt



DESCRIPTION: Screw in anchor with metric stud. BZP

SPECIFICATION:

- CE marked in accordance with ETA15/0784

APPLICATION: ETA15/0784 - Please refer to price list/technical manual for applicable sizes. For use with fixings with internal metric thread.



Type MMSI – with Female Metric Thread



DESCRIPTION: Type MMSI – with female metric thread . Screw in anchor with internal metric thread. BZP.

SPECIFICATION:

- 7.5 x 60, 10.0 x 80 with internal combi thread M8/M10
- 10.0 x 80 with M10 internal
- CE marked in accordance with ETA15/0784

APPLICATION: For use with threaded rod. ETA15/0784 - Please refer to price list/technical manual for applicable sizes.



Pan Head



DESCRIPTION: Pan head with T-Drive recess BZP.

SPECIFICATION:

- 5.0 x 30 ~ 10.0 x 70
- CE marked in accordance with ETA15/0784

APPLICATION: Baseplate anchor. ETA15/0784 - Please refer to price list/technical manual for applicable sizes.



Multi-Monti Plus SSK



DESCRIPTION: Eye bolt anchor BZP.

SPECIFICATION:

- 6.0 x 40
- F120 German fire rating

APPLICATION: Installation of M & E/H & V services.

Multi-Monti® Plus



DESCRIPTION: The first screw anchor with ETA option 1 approval.

SPECIFICATION:

- Diameter: 6mm ~ 20mm
- Length: 50mm ~ 200mm
- Box qty: 25 ~ 100's
- CE marked in accordance with ETA15/0784

APPLICATION: Stress free installation in brick, stone and block. Close to edge & close grouped installation possible. Reusable, ideal for maintenance situations. Through fixing saves time and money.



Structural Timber Screws

PLEASE NOTE: Product advice Heco Topix wood construction screws:

Heco Topix professional woodscrews have been designed specifically for use in softwood and hardwood without pre-drilling. They are available in both carbon steel and stainless steel with countersunk and flange head styles to maximize suitability across a broad range of applications. There are however some instances where it is advisable to either pre-drill or use stainless steel screws (or both). This is because of the natural variations that occur in hardwoods dependant on species, age and moisture content.

In addition, application loads and uniformity of the joint may vary. We would recommend onsite tests are carried out prior to full installation and if appropriate a qualified engineer engaged in the project. Due to the high levels of naturally occurring acids within certain timbers it is advisable to use stainless steel fixings in the following materials: Unprocessed European Oak, Western Red Cedar, Sweet Chestnut, and Douglas fir. The above list is by no means exhaustive and is provided for guidance only.

Heco Topix – Professional Timber Screw – Countersunk



DESCRIPTION: Professional T - drive structural timber screw with countersunk head. Zinc and Yellow coating, also available stainless steel. Assessed by TRADA technologies to BS:5268 and relevant EC5 design codes. Calculation software available. ETA in application.

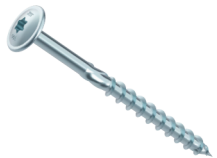
- SPECIFICATION:**
- Diameter 6mm~10mm (12mm available to special order)
 - Length: 40mm ~ 500mm
 - Box qty: 50
 - Stainless available
 - CE marked in accordance with ETA 11/0284



APPLICATION: Shank ribs and patented point reduce drive torque. German regulation approved. T-40 drive recess for secure installation, no pre-drilling in most timbers. Ideal for structural timber to timber connections.



Heco Topix – Professional Timber Screw - Flange Washer Head



DESCRIPTION: T-drive structural timber screw, with flange head. Zinc and yellow coating, also available stainless steel. Assessed by TRADA technologies to BS:5268 and relevant EC5 design codes. Calculation software available. ETA in application.

- SPECIFICATION:**
- Diameter 6mm~10mm (12mm available to special order)
 - Length: 40mm ~ 400mm
 - Box qty: 59
 - CE marked in accordance with ETA 11/0284



APPLICATION: T-40 drive recess for secure installation. No pre-drilling in most timbers. Shank ribs and patented point reduce drive torque. German building regulation approved. Ideal for structural timber to timber connections.



Adhesives & Sealants

Stixall	General Purpose Silicone	Intumescent Sealant	Sealant Gun
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Galva Mate Sealant	Gaffa Tape	Contact Spray Adhesive	Pink Grip
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Grip Tite	Gun & Nail	Thermo Foam	Survey Line
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Fire Foam	CT-90 Cutting and Tapping Fluid	Silicone Lubricant	ZG-90 Cold Zinc Galv
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Gorilla Glue	Gun Foam	Wonder Wipes	Ultra Grime Performance Wipes
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Tools & Consumables

Allen Keys Auger Chisel Crowbar



Files Flood Lights Gloves Hacksaw



Hacksaw Blades Hammers Keyless Chuck Knife






























Magnetic Socket PPE Ratchet Rucksack



Saw Screwdrivers Socket Set Tape Measure











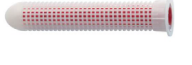














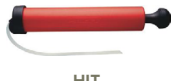



Common Anchors - Comparison Chart

Description	Description	Description	Description
 R-XPT	 HSA	 FBN II	ETA Option 7 Anchors For Non-Cracked Concrete only. Bright Zinc Plated.
 R-XPT HDG	 HSA-F	 FBN II HDG	ETA Option 7 Anchors For Non Cracked Concrete only. Hot Dipped Galvanised
 R-XPT A4	 HSA-R	 FBN II A4	ETA Option 7 Anchors For Non-Cracked Concrete only. A4 Stainless Steel
 R-HPT-II	 HST3	 FAZ II	ETA Option 1 Anchors for Cracked and Non-Cracked Concrete. Bright Zinc Plated
 R-HPT-II A4	 HST-R	 FAZ II A4	ETA Option 1 Anchors for Cracked and Non-Cracked Concrete. A4 Stainless Steel
 R-SPL-II-L	 HSL-3	 FH II-S	ETA Option 1 Heavy Duty Sleeve Anchor Approved For Cracked and Non-Cracked Concrete. Hex Head Loose Bolt Type L
 R-SPL-II-BP	 HSL-3-G	 FH II-B	ETA Option 1 Heavy Duty Sleeve Anchor Approved For Cracked and Non-Cracked Concrete. Projecting Bolt Type P
 R-SPL-II-C	 HSL-3-SK	 FH II-SK	ETA Option 1 Heavy Duty Sleeve Anchor Approved For Cracked and Non-Cracked Concrete. Countersunk Version
 R-STUD-FL	 HIT-V	 FIS-A	Flat Head Anchor Rods Available in Grade 5.8, Grade 8.8, Hot Dipped Galvanised and A4 Stainless Steel



























Common Anchors - Comparison Chart



Description	Description	Description	Description
 R-STUD	 HAS	 RGM	ETA Option 7 Anchors For Non-Cracked Concrete only. Bright Zinc Plated.
 R-ITS	 HIS-RN	 RGM-I	Internally Threaded Socket For Use With Capsule Resin
 SP-CE	 HIT-S 1M	 FIS H L	1 Metre Lengths of woven mesh sleeve for use in cavities and random rubble walls. Cut to Length
 R-PLS	 HIT-S Plastic	 FIS H K	Mesh Sleeve with Cover Cap For Use with Chemical Resin
 R-CAS	 HVU	 RM II	Resin Capsule
 R-KEM II	 HIT 1	 FIS V 300T	Approved Vinylster Resin For Multiple Base Materials
 R-KER II 400	 HIT-Y 200-A	 FIS-SB	High Load Hybrid Resin with Multiple Approvals for use with Studs, Threaded Rod, Rebar and Sockets. ETA Option 1 Approval for Cracked and Non-Cracked Concrete
 R-KEX II 385	 HIT-RE 500 V3	 FIS	Pure Epoxy Resin predominantly for Rebar Applications. Slow Curing. ETA Option 1 Approval for Cracked and Non-Cracked Concrete
 R-BLOWPUMP	 HIT	 ABG	Blowout Tool For Removal Of Excess Dust and Particles Prior To Anchor Installation




Common Anchors - Comparison Chart



Description	Description	Description	Description
 R-BRUSH	 HIT-RB	 BS	Brushes And Accessories for Removal Of Excess Dust And Particles Prior To Anchor Installation
 R-DCL	 HKD	 EA II	Drop In Anchor With Lip. Available in Bright Zinc Plated and A4 Stainless Steel. Approved Part 6 for Multiple Use in Non-Structural Applications
 R-DCA	 HKD-D	 EA-N	Drop In Anchor Without Lip. Available in Bright Zinc Plated and A4 Stainless Steel
 R-DCA-ST-II	 HSD-G	 EHS PLUS	Setting Tool For Drop In Anchors
 R-LX-HF-ZP	 HUS3-H		Hex Flange Concrete Screw Bright Zinc Plated
 R-LX-HF-ZF	 HUS3-HF	N/A	Hex Flange Concrete Screw With Corrosion Resistant Coating
 R-LX-CS-ZP	 HUS3-C	 FBS II SK	Countersunk Concrete Screw With Torx Drive Bright Zinc Plated
 R-LX-I-ZP	 HUS3-I 6	 FBS II 6 M8/10 I	Internally Threaded Concrete Screw primarily for installation of containment. Available with M8 and M10 internal thread. ETA approved Option 1
 R-LX-P	 HUS3-P 6	 FBS II 6P	Pan Head Concrete Screw with Torx Drive

Common Anchors - Comparison Chart



Description	Description	Description	Description
 R-S1-LX-TEST	 Check Gauge D	 FUP	Gauge for checking the reusability of Concrete Screws
 R-RLK-P	 HLC	 FSL-B	Light Duty Sleeve Anchor with Projecting Bolt and Nut
 R-RLK-L	 HLC-H	 FSL-S	Light Duty Sleeve Anchor with Loose Bolt Hex Head
 R-GS	 DBZ	 FDN II	Ceiling Anchor Bright Zinc Plated with ETA Approval Option 1 for Cracked and Non-Cracked Concrete

Code of Practice for the Design and Installation of Anchors

The code of practice particularly applies to the design and installation of anchors that are used in Safety Critical Situations. The European Technical Approval guideline documents define Safety Critical Situations as being 'where the failure of such connections would cause risk to human life and/or considerable economic consequences'. For the purposes of this code Safety Critical Situations will mean:

Where the failure of such connections would cause risk of human injury or death.

The anchors considered here are in accordance with the European Communities (Construction Products) Regulations 1992 (S.I. No. 198 of 1992) and European Communities (Construction Products)(Amendment) Regulations 1994 (S.I. No. 210 of 1994), which together implement the European Communities Construction Products Directive.

Given the importance of the reliability and stability of the anchor in protecting the safety, health and welfare of persons, each anchor used in a structural capacity is required to have a European Technical Approval (ETA). The anchor should be designed in accordance with the design method specified in the ETA and installed in accordance with the manufacturer's instructions.

Owing to the vast range of applications for anchors it is impossible to create a complete list of cases where anchorages would be considered to be safety critical. The code of practice therefore provides guidance and examples of cases where anchorages could be safety critical. **The designer must always complete a design risk assessment in order to verify if the application is a Safety Critical Situation.**

The form (Anchor/FM-01) helps the designer to gather the information that is necessary to complete the anchor design. Form Anchor/FM-01 provided in Appendix A will help the anchor specifier to gather the information needed to specify an anchor.

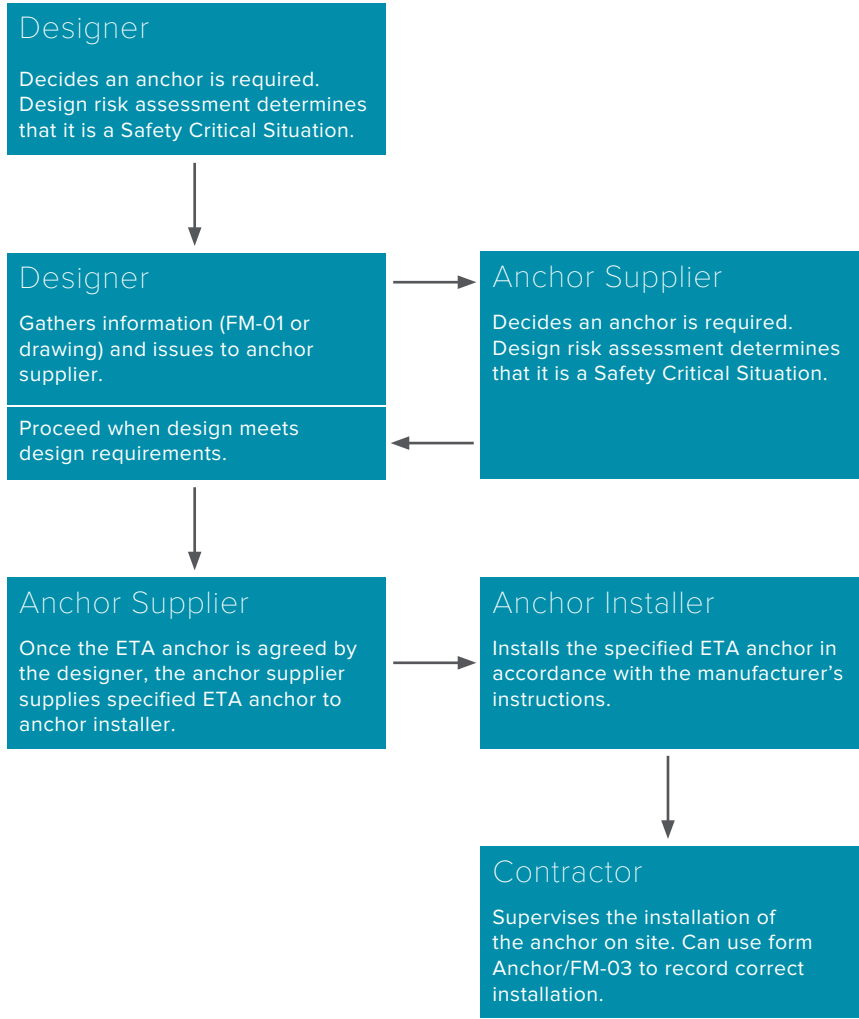
In order to undertake an anchor design, a minimum amount of information must be assembled beforehand.

This includes information on:

- The concrete base material.
- How close the anchors will be to the edge of the concrete.
- The anchor plate.
- The type of anchor being considered.
- The ETA of the anchor.
- Fire rating requirements and corrosion protection.
- The loads acting on the anchor.
- Project details.

If this information is not known, the anchor specifier will not be able to design the anchor.

Scenario: Safety Critical Situation, Specified by Anchor Supplier



Appendix A: Anchor Form: FM-01

Information Required for the Design of Temporary and Permanent Anchors.

NAME _____ COMPANY _____
 PROJECT _____ DATE _____
 REF. NO. _____

Tick here if you are attaching a sketch or drawing.
 If the data is on the drawing please leave required data below unfilled.

Concrete: Details of the Concrete Base Material

CONDITION OF CONCRETE Cracked Concrete Non-Cracked Concrete
 REINFORCEMENT None Ordinary Concentrated
 EDGE REINFORCEMENT None Straight With Stirrups
 CONCRETE STRENGTH _____ CONCRETE THICKNESS _____
 EDGE DISTANCE (C1) _____ EDGE DISTANCE (C3) _____
 EDGE DISTANCE (C2) _____ EDGE DISTANCE (C4) _____

Anchor Plate: Details of the Type of Anchor Plate

ANCHOR PLATE DIMENSIONS _____ SPACING (S1) _____
 NUMBER OF ANCHORS _____ SPACING (S2) _____
 PREFERRED TYPE OF ANCHOR _____

Actions (Loads): Details of All Actions Which Will Act on the Anchor

DESIGN

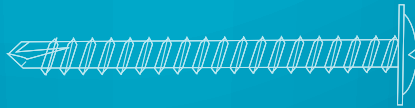
ACTIONS	CHARACTERISTIC	DIRECTION	ACTION TYPE
TENSION (Nsd) _____	_____	_____	<input type="checkbox"/> STATIC ACTIONS
SHEAR (Vsd) _____	_____	_____	<input type="checkbox"/> PULSATING ACTIONS
MOMENT (Msd) _____	_____	_____	<input type="checkbox"/> ALTERNATING ACTIONS
TORSION (Mt,sd) _____	_____	_____	

SAFETY CRITICAL SITUATION Yes, Safety Critical No, Not Safety Critical

Lever Arm

Stand-off Fixing without Clamping to Concrete No Lever Arm
 Stand-off Fixing with Clamping to Concrete Stand-off Fixing with Grouting
 STAND-OFF DISTANCE _____

COMMENTS _____



PROFAST
Fasteners & Fixings Solutions

Dublin : +353 (0)1 4566 666

Belfast : +44 (0)28 9024 3215

Derbyshire: +44(0) 1773 740 410