Section F

INCOFIX

Contents

	Page
Dropin Anchors & Setting Tool	105
Lag Screw Shield Anchor & Shield Anchor Double	106
Wedge Anchor	107
Gravity Toggle Anchor, Base Plate with Welded Nut & Shield Anchor	108
Metal Dowel & Wall Expension Plug	109

ANCHORS

ANCHOR TYPES & MATERIAL / COATING

Code	Size	Photo	Material	Coating
IC40201006 to IC40201020	M6 to M20		Carbon steel Zinc plated ≥ 5 µm	Zinc Plated
IC402081230 to IC402082080	M12 to M20		Carbon steel Zinc plated ≥ 5 µm	Zinc Plated
IC402051030 to IC402053095	M10 to M30		Carbon steel Zinc plated ≥ 5 µm	Zinc Plated
IC40205640 to IC4020516100	M6 x 40 to M16 x 100		Carbon steel Zinc plated ≥ 5 µm	Zinc Plated
IC4020610100 to C4020610200	M10		Carbon steel Zinc plated ≥ 5 µm	Zinc Plated
IC40204650 to IC40201290	M6 x 50 to M12 x 90		Carbon steel	Zinc Plated

INCOFIX DROPIN ANCHOR

F

Drop-in anchors are cylindrical internally threaded expansion anchors designed for anchoring threaded rods into solid concrete. They are installed flush with the surface and expand using a setting tool to create a secure mechanical interlock. Commonly used in suspended HVAC systems, cable trays, piping, and fire protection installations.

Standard: As per ASTM E488 / ACI 355.2
Material: Zinc-plated carbon steel
Finish Options: Electro-galvanized / SS A4 for corrosive environments
Thread Type: Metric ISO coarse, 60° thread angle
Installation Method: Hammer-set using appropriate setting tool
Substrate: Solid concrete only (not suitable for hollow blocks or brick)

Part No.	Anchor Size	Internal Thread	Drill Hole Diameter	Anchor Body Length	Setting Tool Ref	Pull-Out Strength (kN)	Shear Strength kN)
IC40201006	M6	M6	8	25	SET-M6	2.48	2.91
IC40201008	M8	M8	10	30	SET-M8	3.31	3.84
IC40201010	M10	M10	12	40	SET-M10	4.28	5.1
IC40201012	M12	M12	15	50	SET-M12	6.1	8.3
IC40201016	M16	M16	20	65	SET-M16	9.1	18.52
IC40201020	M20	M20	25	80	SET-M20	12.3	27.13

SETTING TOOL

Material: Low Carbon Steel as per ASTM A36 Grade
Mechanical Grade: 5.8 (as per ISO 898-1)
Thread Type: Metric
Thread Angle: 60 degrees (as per ASME B1.1)
Surface Finish: Zinc Plated (Cr6+)
Corrosion Resistance: Suitable for indoor, dry environments

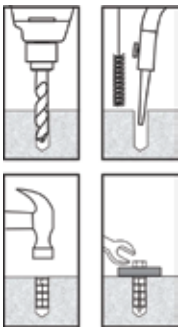
Part No.	Setting Tool Ref	Compatibility Anchor Size	Overall Length	Body Diameter	Grip Type
IC40202006	SET-M6	M6	705	6	Knurled
IC40202008	SET-M8	M8	85	8	Knurled
IC40202010	SET-M10	M10	100	10	Knurled
IC40202012	SET-M12	M12	115	12	Knurled
IC40202016	SET-M16	M16	145	16	Knurled
IC40202020	SET-M20	M20	155	20	Knurled

LAG SCREW SHIELD ANCHOR

F

Lag Screw Shield Anchors are designed for light to medium-duty fastening into concrete, brick, or block. They are made of rustproof zinc alloy and work with lag screws to provide strong holding power. The anchor expands as the screw is tightened, creating a secure hold in the base material. A short shield is recommended for harder concrete to minimize drilling time, while a long shield is ideal for softer masonry for maximum holding power.

Function
Available in short or long length.
Expand as lag screw is fastened through the anchor.
Consist of pre-assembled two-part expansion shields.
Manufactured from corrosion-resistant zinc alloy.
Precisely tapered internal threading for easy screw installation.



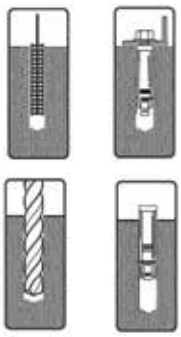
Part No.	Size	Shield Length (mm)	Drill Hole Diameter (mm)	Screw Size (mm)	Min. Embedment (mm)	Pull-Out Strength* (kN)	Shear Strength* (kN)
IC402081230	12	30	12	8-10	30	3	4.5
IC402081250	12	50	12	8-10	50	4.5	6
IC402081638	16	38	16	12-14	38	5	7.5
IC402081665	16	65	16	12-14	65	6.5	9
IC402082050	20	50	20	16	50	7	10.5
IC402082080	20	80	20	16	80	9	12

SHIELD ANCHOR DOUBLE

The Double Expansion Shield Anchor is designed for secure anchoring in concrete, brick, or block base materials. When a machine-threaded bolt is inserted and tightened, the anchor expands at two points along its length, providing a strong grip and reducing the risk of base material damage. Manufactured from high-quality Zamac zinc alloy for superior corrosion resistance, this anchor is ideal for light to medium-duty fastening applications. The dual expansion design ensures excellent holding values in softer or variable-density base materials.

Applications
Electrical and mechanical fixtures
Pipe supports and brackets
HVAC equipment
Handrails and safety barriers
General construction and maintenance fastening

Material: Zamac Zinc Alloy
Finish: Casting
Standard: ANSI



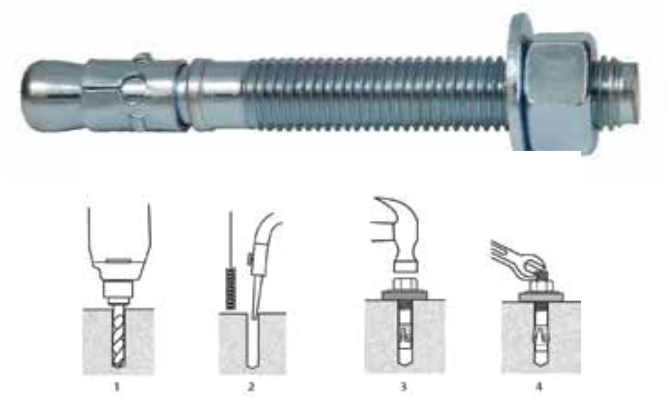
Part No.	Outside Diameter (mm)	Anchor Length (mm)	Drill Bit Dia. (mm)	Min. Embedment Depth (mm)	Recommended Torque (Nm)	Shear Load (kN)	Tensile Load (kN)
IC402051030	10	30	10	30	4	1	0.8
IC402051238	12	38	12	38	8	1.5	1.2
IC402051250	15	50	15	50	12	2	1.6
IC402052065	20	65	20	65	20	3	2.4
IC402052580	25	80	25	80	30	4	3.2
IC402053095	30	95	30	95	40	5	4

WEDGE ANCHOR

F

Available in Carbon Steel (zinc-plated, hot-dip galvanized) and Stainless Steel A2/A4 for corrosion resistance.
High pull-out and shear load performance.
Easy installation – simply drill, insert, and torque.
Expansion clip ensures uniform load transfer.
Sizes range from M6 to M20 (¼" to ¾") diameters.
Lengths from 40 mm to 300 mm (depending on diameter).
Designed for cracked and non-cracked concrete.

Applications
Pipe support systems (Clevis Hangers, Sprinkler Clamps, Brackets).
Duct supports and MEP framing.
Cable trays and electrical supports.
Structural steel connections.
Machinery and equipment anchoring.



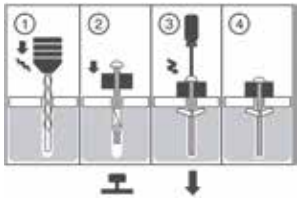
Part No.	Anchor Size	Anchor Length (mm)	Thread Length (mm)	Min. Embedment (mm)	Max. Fixture Thickness (mm)	Pull-Out Load* (kN)	Shear Load* (kN)
IC40203640	M6 x 40	40	15	25	5	2.5	2.1
IC40203655	M6 x 55	55	30	25	20	2.5	2.1
IC40203670	M6 x 70	70	25	25	55	3	2.5
IC40203855	M8 x 55	55	20	35	10	2.58	2.58
IC40203865	M8 x 65	65	25	55	20	4.6	4.2
IC40203875	M8 x 75	75	50	55	50	6	4.2
IC40203890	M8 x 90	90	55	55	45	6	4.2
IC402031060	M10 x 60	60	25	45	10	5.9	5.9
IC402031075	M10 x 75	75	40	45	25	6.3	6.3
IC402031090	M10 x 90	90	55	45	40	8.5	8.4
IC4020310100	M10 x 100	100	55	45	50	9.05	8.4
IC4020310115	M10 x 115	115	40	45	65	9.05	8.4
IC402031275	M12 x 75	75	50	55	10	6.6	6.6
IC402031290	M12 x 90	90	55	55	25	11	10
IC4020312100	M12 x 100	100	55	55	35	11	9.2
IC4020312120	M12 x 120	120	40	55	55	11	9.2
IC4020312140	M12 x 140	140	45	55	75	11	9.2
IC402031490	M14 x 90	90	55	65	15	11.4	12.4
IC4020314100	M14 x 100	100	40	65	25	11.4	12.4
IC4020314115	M14 x 115	115	40	65	40	14.5	12.4
IC4020314135	M14 x 135	140	45	65	65	14.5	12.4
IC4020314160	M14 x 160	160	50	65	85	14.5	12.4
IC402036100	M16 x 100	100	40	70	20	12.2	15.5
IC402036120	M16 x 120	120	45	70	40	18	15.5
IC402036135	M16 x 135	155	45	70	55	18	15.5
IC402036150	M16 x 150	150	50	70	70	18	15.5
IC402036180	M16 x 180	180	55	70	100	18	15.5

GRAVITY TOGGLE ANCHOR

F

The heavy-gauge wings of the Gravity Toggle Anchor are designed with a high-capacity truss structure, ideal for fixing to cavity walls and ceilings of low structural strength.The fixings cannot be reused – removal of the screw will result in the toggle dropping into the cavity.

Features
Suitable for heavy-duty fixing such as radiators, wall units, & overhead applications.
Wide-span wings spread the load for increased holding capacity.
Excellent holding power in lath and plaster.
Quick and easy installation without specialist tools.
Suitable for hollow walls, fibreboard, plasterboard, and partitions

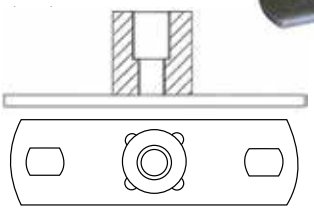


Part No.	Size	Bolt Length (mm)	Drill Hole Dia (mm)	Tensile Strength (kN)
IC4020610100	M10	100	30	13
IC4020610200	M10	200	30	13

BASE PLATE WITH WELDED NUT

Base Plates with Welded Nuts are designed for secure attachment of threaded rods, bolts, or other fasteners to various surfaces. They are commonly used in construction, scaffolding, and machinery installations where a firm, fixed threaded anchor point is required. The welded nut provides a robust, permanent fixing solution, while the base plate offers stability and load

Function:
Provides a stable threaded connection point for structural or equipment mounting.
Nut is securely welded to the base plate to prevent loosening or rotation.
Allows for easy installation of threaded components.
Distributes loads over a wider surface area to reduce stress on the substrate.
Can be used on walls, floors, ceilings, or metal frames.



Part No.	Thread Size mm)	Plate Length (mm)	Plate Width (mm)	Plate Thickness (mm)	Hole Size (mm)	Nut Height (mm)	Tensile Strength (kN)
IC40211006	M6	80	25	3	7x12 slot	12	2.5
IC40211008	M8	80	25	3	9x14 slot	14	2.5
IC40211010	M10	90	30	4	11x16 slot	16	2.5
IC40211012	M12	90	30	4	13x18 slot	18	2.5

SHIELD ANCHOR

Shield Anchor Fix Bolts are designed for heavy-duty fastening into solid concrete. They provide strong, secure anchoring and are ideal for structural and high-load applications. The four-piece expansion mechanism ensures maximum holding power by expanding evenly inside the drilled hole, delivering reliable performance in demanding environments.

Applications:
- Fixing heavy machinery and equipment
- Structural steel connections
- Securing safety barriers, handrails, and guard rails
- Anchoring shelves, brackets, and supports in concrete walls

Part No.	Size	Length (mm)	Tensile Strength (kN)
IC40204650	M6x50	48.6	0.8
IC40204860	M8x60	65	2.5
IC402041070	M10x70	71	3.2
IC40201290	M12x90	93	4.6

WOOD TO METAL DOWEL

F

Wood-to-metal dowel screws are designed for fastening wood to metal, providing a strong and durable connection without the need for through-bolts. One end has a wood screw thread to grip timber, while the other end features a machine screw thread for securing into metal or threaded inserts. Commonly used in furniture, fixtures, and structural applications.

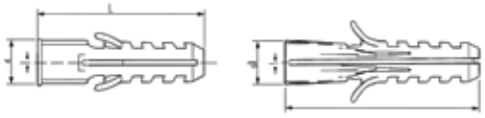
Function
Dual-thread design: wood screw thread on one end, machine screw thread on the other.
Allows fastening of timber directly to metal structures or pre-threaded components.
Eliminates need for exposed bolt heads or nuts on the visible surface.
Available in various diameters and lengths to suit different applications.
Manufactured from carbon steel, zinc-plated for corrosion resistance.

Part No.	Dowel Size (Wood × Metal Thread)	Overall Length (mm)	Wood Thread Length (mm)	Metal Thread Length (mm)	Tensile Strength (kN)	Shear Strength (kN)	Drill Hole in Metal (mm)
IC402096650	6 × M6	50	25	25	3	2.5	6.2
IC402096860	6 × M8	60	30	30	4.2	3.6	8.2
IC402098660	8 × M6	60	30	30	3.2	2.7	6.2
IC402098870	8 × M8	70	35	35	4.5	3.8	8.2
IC402091080	8 × M10	80	40	40	5.8	4.9	10.2
IC4020910880	10 × M8	80	40	40	4.8	4	8.2
IC40209101090	10 × M10	90	45	45	6	5.1	10.2
IC402091210100	12 × M10	100	50	50	6.5	5.6	10.2
IC402091212110	12 × M12	110	55	55	8	6.8	12.2

NYLON WALL EXPANSION PLUG (Normal & RT Type)

Nylon wall plugs are designed for securely fixing screws into solid masonry walls, concrete, brick, and stone. They expand upon insertion of a screw, ensuring a tight grip and preventing loosening over time. Made from durable nylon, they are resistant to corrosion, aging, and temperature changes. The RT (Ribbed Taper) type offers enhanced grip in soft materials and prevents rotation during installation.

Function:
Provide strong and secure anchorage for screws in solid walls.
Expand evenly to distribute load and prevent cracking of the substrate.
Made from high-grade nylon for durability and resistance to wear.
Available in Normal (smooth body) and RT (ribbed taper) types.
Designed for use with wood screws or chipboard screws.



RT type

Part No.	Size (mm)	Plug Length (mm)	Drill Hole Diameter (mm)	Screw Diameter Range (mm)	Pull-out Load in Concrete (kN)	Pull-out Load in Solid Brick (kN)
IC40210525	5 × 25 (Normal)	25	5	3-4	0.4	0.3
IC40210525RT	5 × 25 (RT)	25	5	3-4	0.45	0.35
IC40210630	6 × 30 (Normal)	30	6	3.5-5	0.6	0.5
IC40210630RT	6 × 30 (RT)	30	6	3.5-5	0.65	0.55
IC40210840	8 × 40 (Normal)	40	8	4.5-6	0.9	0.8
IC40210840RT	8 × 40 (RT)	40	8	4.5-6	1.0	0.85
IC402101050	10 × 50 (Normal)	50	10	6-8	1.4	1.2
IC402101050RT	10 × 50 (RT)	50	10	6-8	1.5	1.3
IC402101260	12 × 60 (Normal)	60	12	8-10	2.0	1.6
IC402101260RT	12 × 60 (RT)	60	12	8-10	2.2	1.8