TECHNICAL PRODUCT CATALOG

Gypsum Board Profiles, Ceiling Channels & Partition Systems

Precision-engineered galvanized steel framing profiles and finishing accessories manufactured by Al-Quds Forming under the INSIZE brand. Designed for structural reliability, crisp architectural lines, and seamless gypsum board installation across commercial and residential projects.

Catalog Contents & Product Lineup

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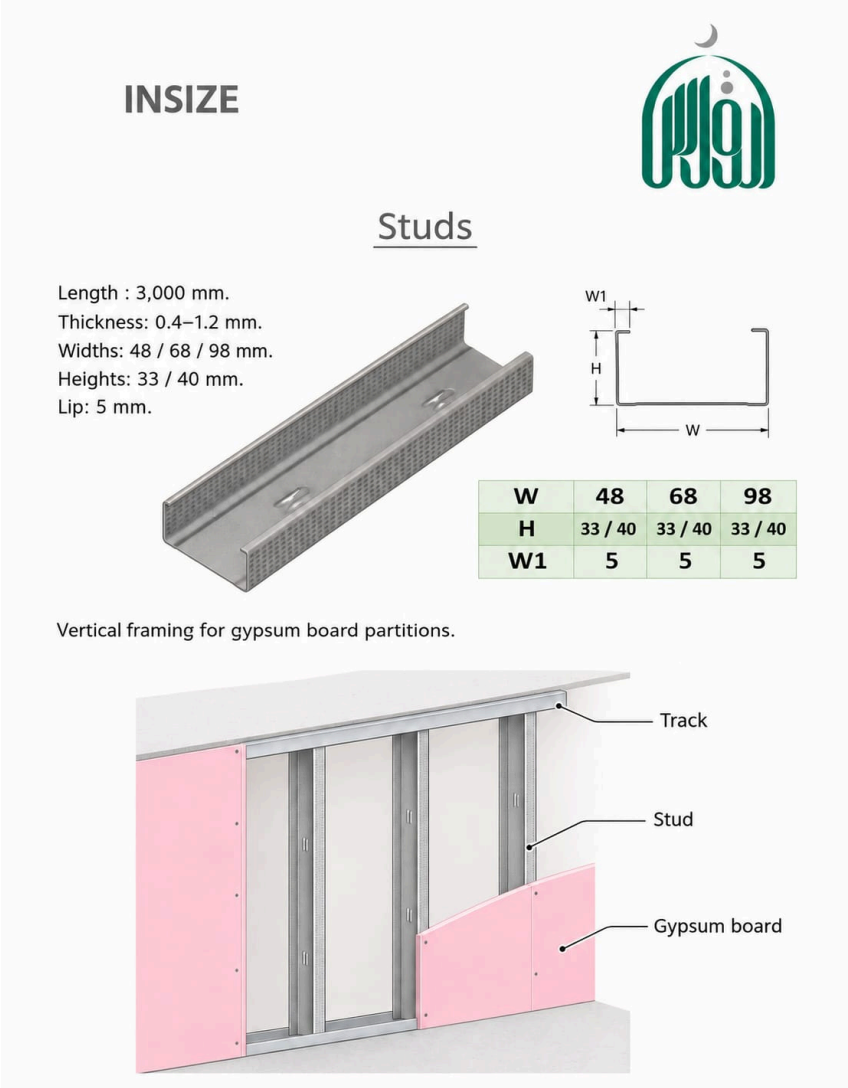
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Studs

Vertical load-bearing framing posts for gypsum board partition walls.



Isometric profile, cross-section dimensions (W: 48 / 68 / 98 mm, H: 33 / 40 mm, W1: 5 mm), and wall installation.

Product Description & Application

INSIZE Studs are cold-rolled galvanized C-section steel profiles designed to serve as the primary vertical framing members in non-load-bearing interior drywall partitions. Friction-fitted into top and bottom floor/ceiling Tracks, these studs feature knurled flanges for rapid, slip-free drywall screw penetration and factory-punched service cutouts for effortless electrical and mechanical routing.

Technical Specifications

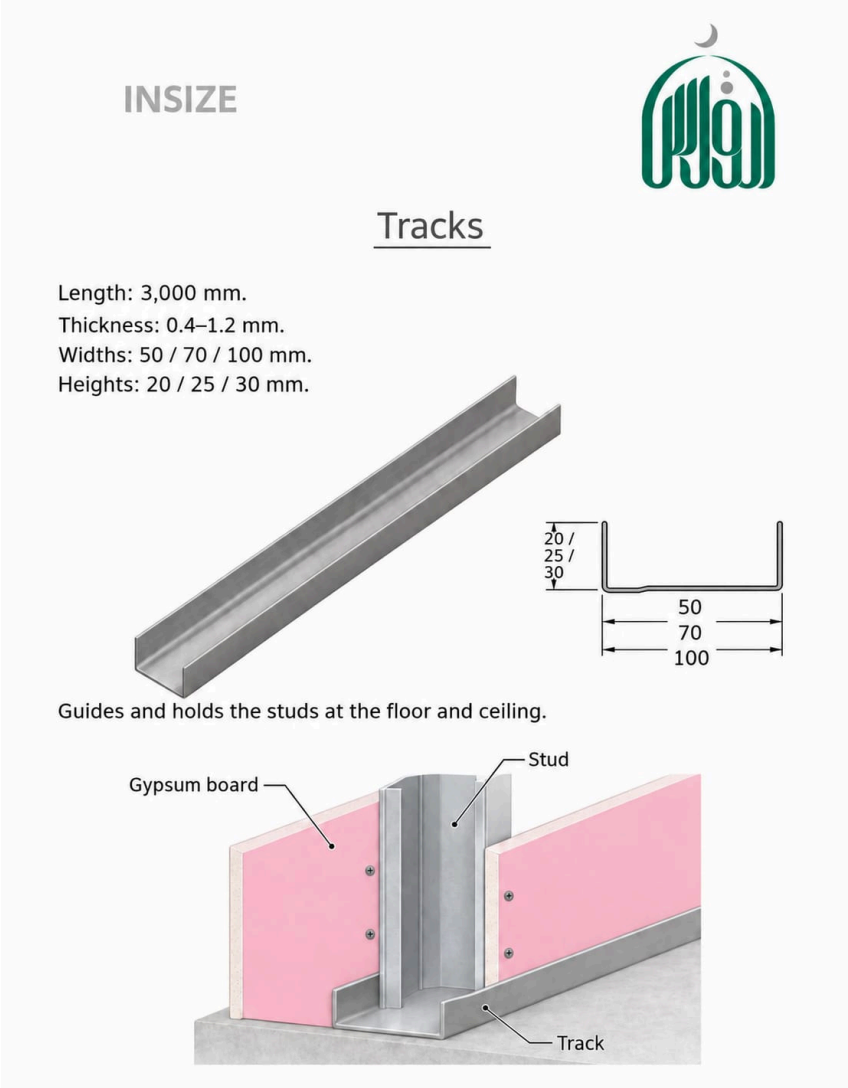
Parameter	Specification
Standard Length	3,000 mm
Steel Thickness	0.40 – 1.20 mm
Web Widths (W)	48 mm / 68 mm / 98 mm
Flange Heights (H) & Lip (W1)	33 mm / 40 mm flange height × 5 mm stiffening lip

Key Advantages

- **Knurled Screw-Grip Flanges:** Textured steel faces guide self-drilling drywall screws straight into the profile without walking.
- **Returned 5 mm Stiffening Lips:** Folded flange returns significantly boost axial buckling resistance and torsional rigidity.
- **Multiple Width Options:** Available in 48, 68, and 98 mm web widths to meet diverse acoustic, fire, and wall-thickness requirements.

Tracks

U-shaped perimeter channels that guide and secure vertical studs at floor and ceiling.



Isometric channel view, cross-section dimensions (Widths: 50 / 70 / 100 mm, Heights: 20 / 25 / 30 mm), and assembly.

Product Description & Application

INSIZE Tracks are roll-formed U-shaped galvanized steel perimeter channels anchored directly to concrete floor slabs and structural soffits to establish exact partition layout lines. Sized to telescope cleanly over matching 48, 68, and 98 mm vertical Studs, they hold studs securely in plumb alignment while providing solid perimeter backing for gypsum board edges.

Technical Specifications

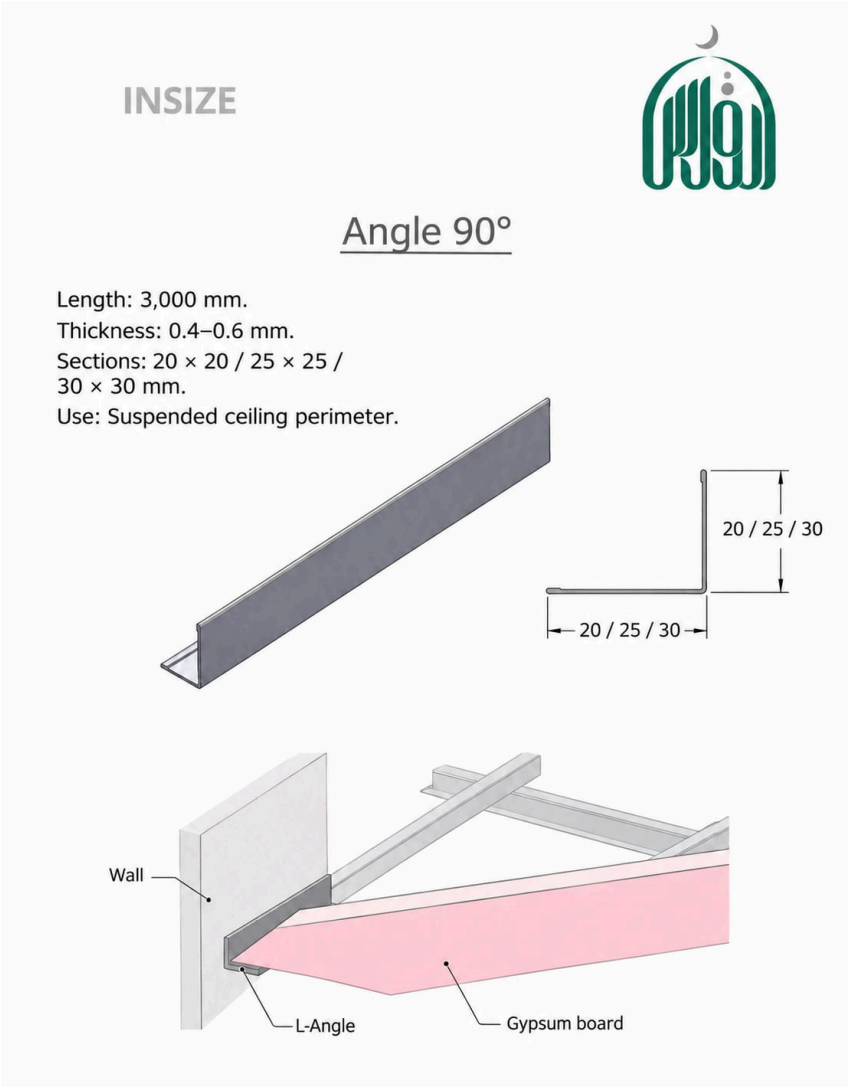
Parameter	Specification
Standard Length	3,000 mm
Steel Thickness	0.40 – 1.20 mm
Channel Widths	50 mm / 70 mm / 100 mm (paired with 48 / 68 / 98 mm Studs)
Leg Heights	20 mm / 25 mm / 30 mm

Key Advantages

- **Precision Telescoping Fit:** Engineered with exact dimensional clearance to accept INSIZE Studs smoothly without binding or play.
- **Deep-Leg Deflection Options:** Available in 20, 25, and 30 mm flange heights to accommodate slab deflection tolerances at ceiling heads.
- **Fast Structural Anchoring:** Flat, rigid web base allows rapid fastening to concrete, masonry, or steel substrates.

Angle 90°

Precision L-angle trim for suspended ceiling perimeters and wall abutments.



Isometric L-angle profile, cross-section options (20 × 20 / 25 × 25 / 30 × 30 mm), and wall perimeter installation.

Product Description & Application

The INSIZE Angle 90° (L-Angle) is a roll-formed galvanized steel right-angle profile installed along perimeter walls and columns to define the finished elevation of suspended gypsum ceilings. It supports the outer edges of ceiling furring channels and gypsum board sheets while providing a rigid, level reference line around the entire room perimeter.

Technical Specifications

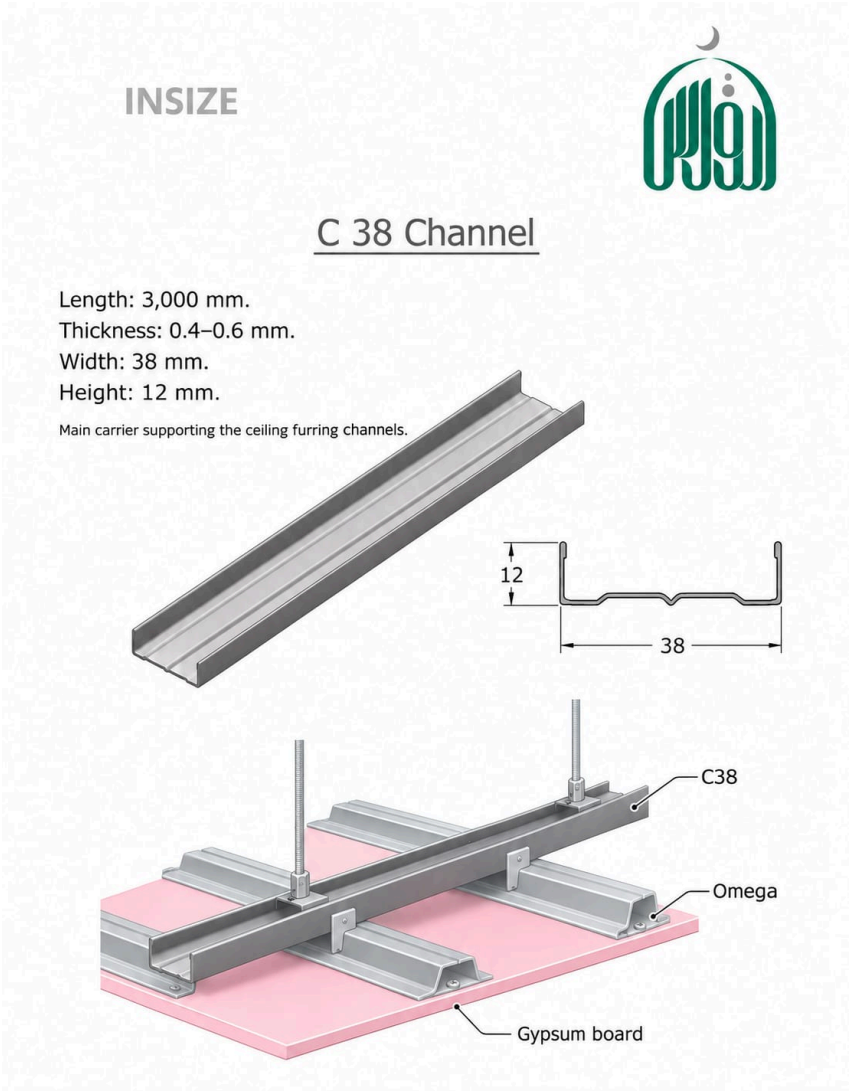
Parameter	Specification
Standard Length	3,000 mm
Steel Thickness	0.40 – 0.60 mm
Available Sections	20 × 20 mm / 25 × 25 mm / 30 × 30 mm
Primary Use	Suspended ceiling perimeter support and shadow-line framing

Key Advantages

- **True 90-Degree Geometry:** Crisp, square bend ensures tight flush contact against wall surfaces and level board seating.
- **Hemmed Safety Edges:** Smoothly rolled leg edges prevent hand cuts during site cutting and overhead installation.
- **Versatile Section Sizes:** Offered in 20, 25, and 30 mm equal legs to match light-duty residential or heavy-duty commercial grids.

C 38 Channel

Main structural carrier supporting ceiling furring channels and suspension grids.



Isometric profile, cross-section (38 mm width × 12 mm height), and C38-to-Omega grid connection.

Product Description & Application

The INSIZE C 38 Channel serves as the primary load-bearing backbone in two-level suspended gypsum ceiling systems. Suspended from the structural slab via threaded rods and suspension brackets, the C 38 carrier runs perpendicular to the Omega furring channels, distributing dead loads evenly and enabling precise laser-level height adjustment across expansive commercial and residential ceilings.

Technical Specifications

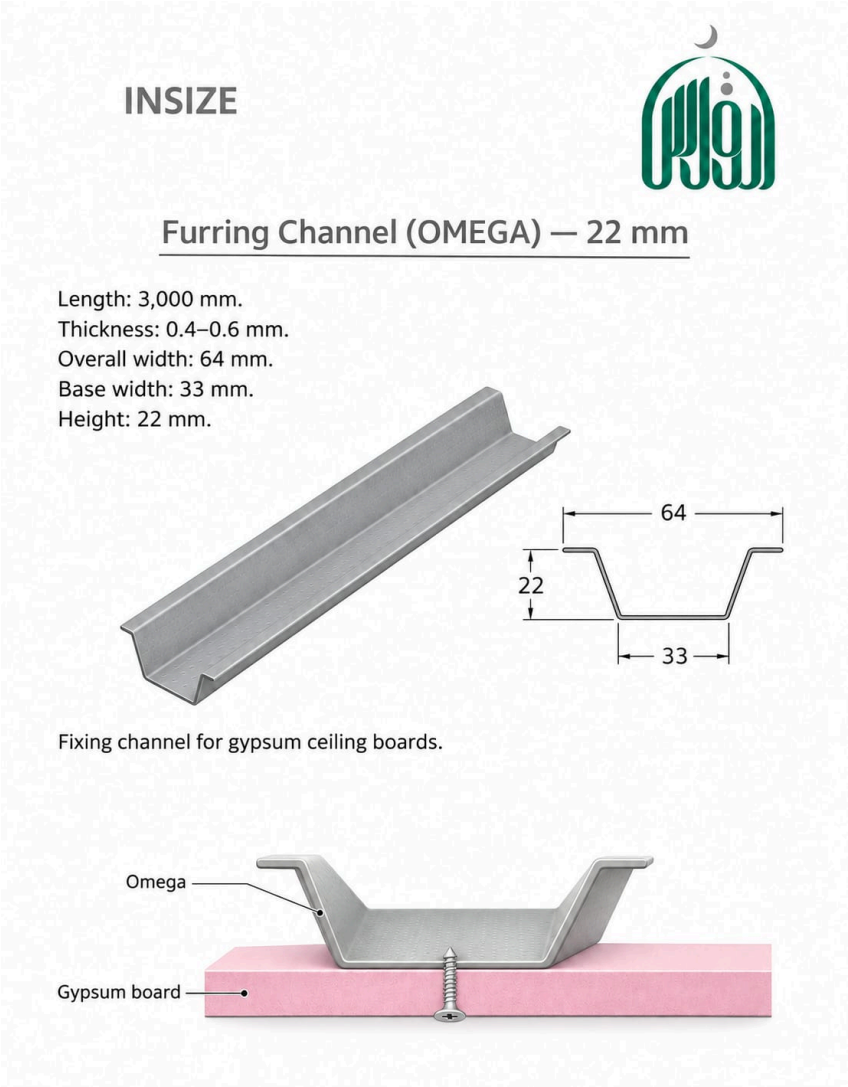
Parameter	Specification
Standard Length	3,000 mm
Steel Thickness	0.40 – 0.60 mm
Web Width	38 mm (with central stiffening rib)
Flange Height	12 mm (with returned safety edges)

Key Advantages

- **Rib-Reinforced Web:** Central longitudinal stiffener increases torsional rigidity and load-carrying capacity between hanger points.
- **Returned Flange Lips:** Folded 12 mm vertical legs prevent buckling under point loads and improve installer handling safety.
- **Seamless Grid Integration:** Compatible with standard C38-to-Omega cross-connectors, wire hangers, and threaded suspension rods.

Furring Channel (OMEGA) — 22 mm

High-rigidity trapezoidal fixing channel for gypsum ceiling boards.



Isometric channel view, cross-section (64 mm overall width, 22 mm height, 33 mm base), and screw detail.

Product Description & Application

The INSIZE 22 mm Furring Channel (Omega) is a hat-shaped galvanized steel secondary framing section engineered to support gypsum boards in suspended ceiling grids and masonry wall furring assemblies. Its 22 mm profile depth provides enhanced bending stiffness and load capacity across wider spans, while the textured 33 mm flat base prevents drywall screws from walking during rapid board installation.

Technical Specifications

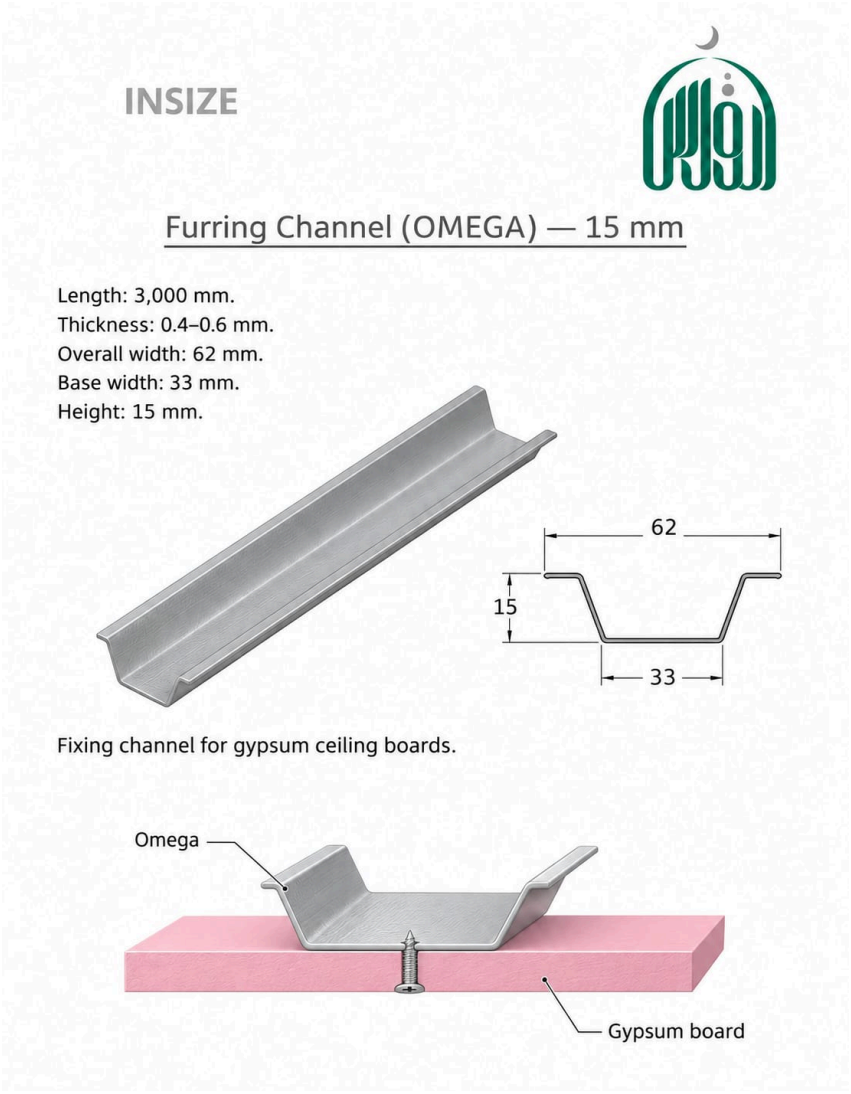
Parameter	Specification
Standard Length	3,000 mm
Steel Thickness	0.40 – 0.60 mm
Overall Width	64 mm (including outward mounting flanges)
Base Width & Height	33 mm base width × 22 mm profile height

Key Advantages

- **Enhanced Span Rigidity:** The 22 mm web depth resists deflection under single- or double-layer gypsum board loads.
- **Knurled Screw-Grip Face:** Micro-embossed 33 mm face enables fast, accurate self-drilling screw penetration without bit slippage.
- **Versatile Mounting Flanges:** Wide top wings clip easily onto C 38 primary carriers or fasten directly to concrete soffits and walls.

Furring Channel (OMEGA) — 15 mm

Low-profile fixing channel for space-saving gypsum ceiling and wall systems.



Isometric view, cross-section (62 mm overall width, 15 mm height, 33 mm base), and board fastening.

Product Description & Application

The INSIZE 15 mm Furring Channel (Omega) offers a compact, low-depth alternative for suspended ceilings and direct-fix wall linings where maximizing headroom or floor area is critical. Maintaining the same 33 mm board-bearing face as the 22 mm model, this 15 mm profile delivers reliable leveling over uneven concrete slabs and blockwork while minimizing plenum depth loss.

Technical Specifications

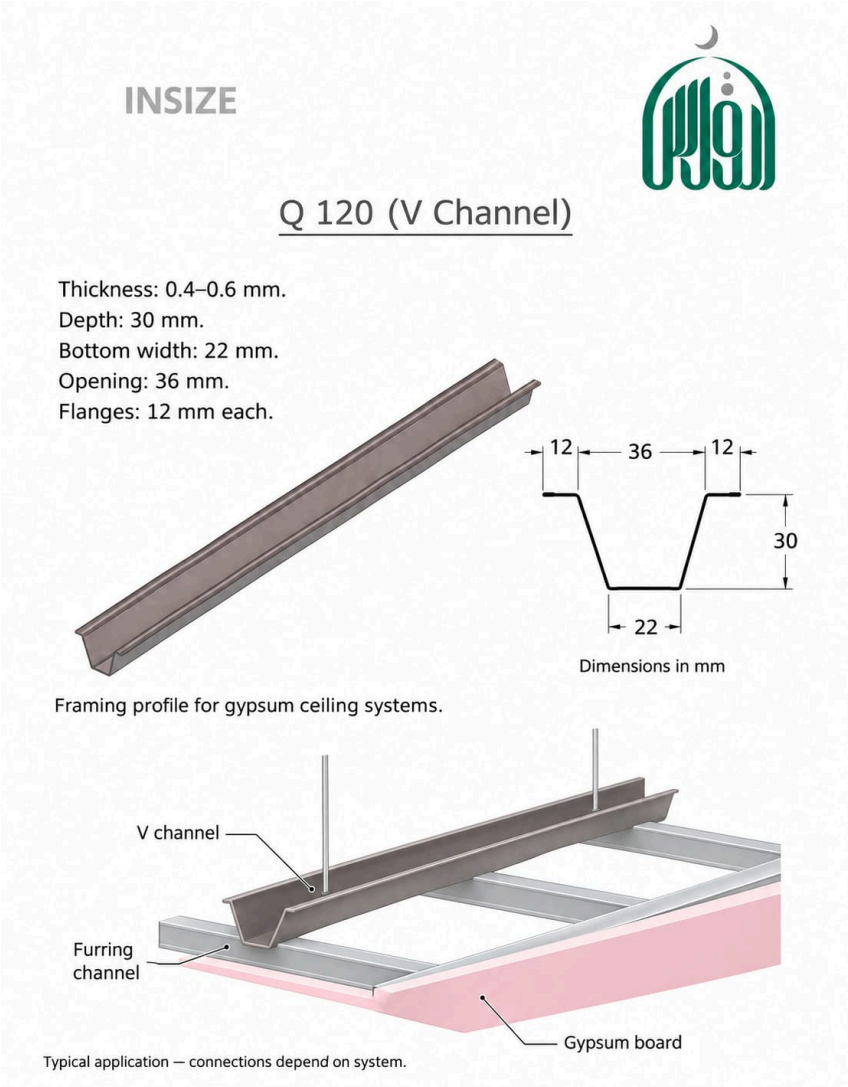
Parameter	Specification
Standard Length	3,000 mm
Steel Thickness	0.40 – 0.60 mm
Overall Width	62 mm
Base Width & Height	33 mm base width × 15 mm profile height

Key Advantages

- **Minimal Plenum Footprint:** Ideal for low-ceiling renovations and direct wall dry-lining where space conservation is essential.
- **Full 33 mm Bearing Surface:** Provides ample room for staggered board butt-joints and secure dual-row screw fastening.
- **Consistent Dimensional Accuracy:** Roll-formed to tight tolerances to ensure perfectly flat ceiling planes across large rooms.

Q 120 (V Channel)

Deep trapezoidal framing profile for heavy-duty gypsum ceiling systems.



Isometric view, cross-section (30 mm depth, 36 mm opening, 22 mm bottom, 12 mm flanges), and assembly.

Product Description & Application

The INSIZE Q 120 (V Channel) is a deep-section trapezoidal framing profile engineered for suspended gypsum ceiling assemblies requiring high structural stiffness and wide hanger spacing. With a 30 mm profile depth, 22 mm flat bottom web, and dual 12 mm upper flanges, it acts as a robust primary or secondary framing member that integrates cleanly with suspension rods and furring channels.

Technical Specifications

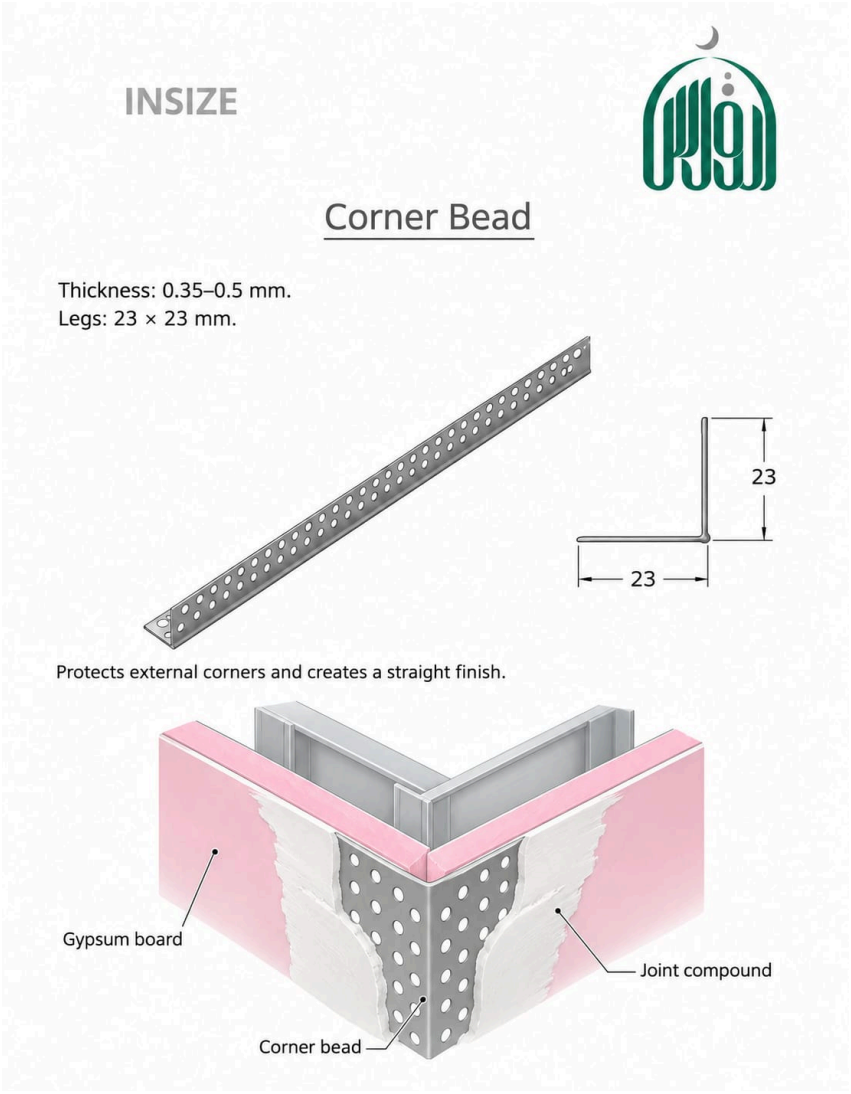
Parameter	Specification
Steel Thickness	0.40 – 0.60 mm
Profile Depth	30 mm
Bottom Width & Opening	22 mm bottom width / 36 mm top opening
Top Flanges	12 mm each side (60 mm total top width)

Key Advantages

- **High Section Modulus:** The 30 mm deep V-trapezoid geometry delivers superior resistance to sagging over long ceiling spans.
- **Balanced Load Distribution:** Symmetrical 12 mm horizontal flanges and sloped webs resist twisting during suspension and board fixing.
- **Flexible System Compatibility:** Adapts to varied suspension methods and furring layouts according to project engineering specifications.

Corner Bead

Protects external corners and creates a straight, impact-resistant finish.



Isometric profile, cross-section dimensions (23 × 23 mm), and corner installation detail.

Product Description & Application

The INSIZE Corner Bead is a precision roll-formed galvanized steel angle profile engineered to reinforce vulnerable 90-degree external corners on gypsum board partitions, columns, and bulkheads. Its perforated flanges allow joint compound to key firmly through the steel profile directly onto the gypsum board face, preventing cracking, chipping, and edge delamination under daily impact.

Technical Specifications

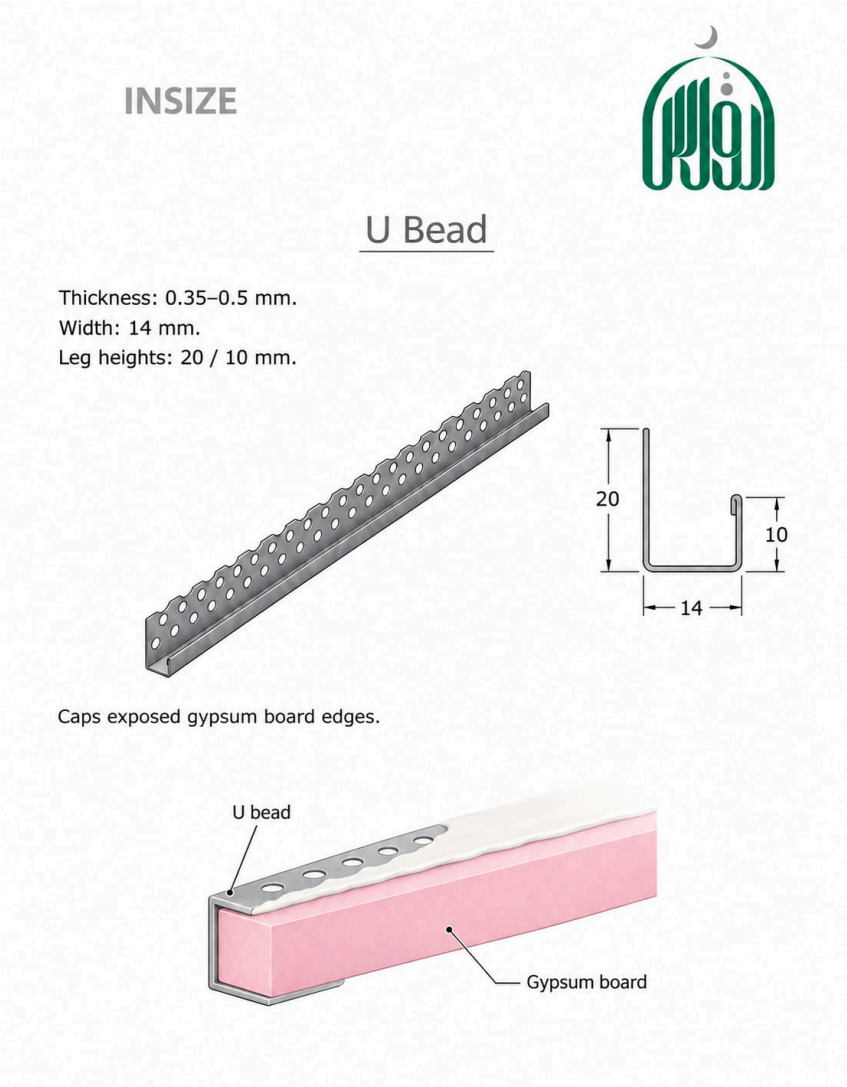
Parameter	Specification
Leg Dimensions	23 × 23 mm
Steel Thickness	0.35 – 0.50 mm
Material & Finish	Corrosion-resistant galvanized steel with perforated bonding wings
Application Method	Embedded in joint compound over external gypsum board intersections

Key Advantages

- **Superior Mud Adhesion:** Uniformly spaced perforations ensure complete joint compound penetration for a monolithic bond.
- **Crisp Architectural Lines:** Rigid central nose guides finishing knives to produce true, razor-straight corner geometry.
- **Impact Durability:** Shields exposed drywall edges from mechanical abrasion and accidental knocks in high-traffic corridors.

U Bead

Caps exposed gypsum board edges with clean, durable perimeter framing.



Isometric view, asymmetric leg profile (20 / 10 mm × 14 mm width), and edge installation.

Product Description & Application

The INSIZE U Bead (J-Trim / Edge Bead) is designed to encase and finish raw, cut, or exposed edges of gypsum boards where panels terminate against window frames, door jambs, suspended ceiling perimeters, or shadow reveals. Featuring an asymmetric U-shaped channel with a perforated front flange and a hemmed rear return leg, it grips the board securely while accepting joint compound for a flush, invisible transition.

Technical Specifications

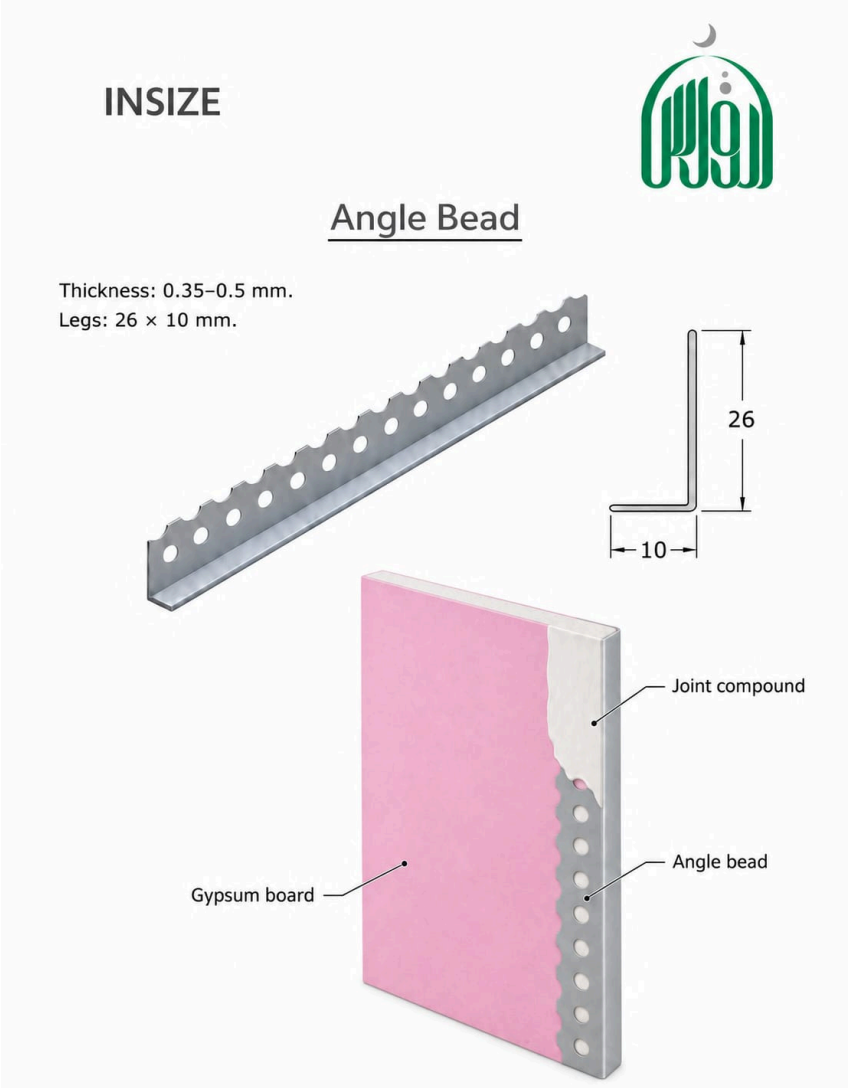
Parameter	Specification
Channel Width	14 mm (accommodates standard 12.5 mm gypsum boards)
Leg Heights	20 mm (perforated front wing) / 10 mm (hemmed rear return leg)
Steel Thickness	0.35 – 0.50 mm
Primary Function	Capping and reinforcing exposed gypsum board terminations

Key Advantages

- **Snug Friction Fit:** The 14 mm web width and folded rear lip clamp onto standard gypsum boards without slippage prior to taping.
- **Clean Perimeter Definition:** Eliminates crumbling gypsum cores at partition ends, wall abutments, and ceiling reveals.
- **Seamless Skim Coating:** The 20 mm perforated flange feathers smoothly into the board surface using standard joint compound.

Angle Bead

Asymmetric perforated L-bead for sharp edge reinforcement and reveal terminations.



Isometric view, asymmetric L-profile dimensions (26 × 10 mm), and joint compound application detail.

Product Description & Application

The INSIZE Angle Bead is a specialized asymmetric galvanized steel L-trim engineered to reinforce gypsum board edges, bulkhead returns, and tight architectural reveals where a full symmetrical corner wing cannot be accommodated. Its 26 mm perforated front flange embeds cleanly into joint compound on the board face, while the compact 10 mm return leg wraps neatly around the board edge.

Technical Specifications

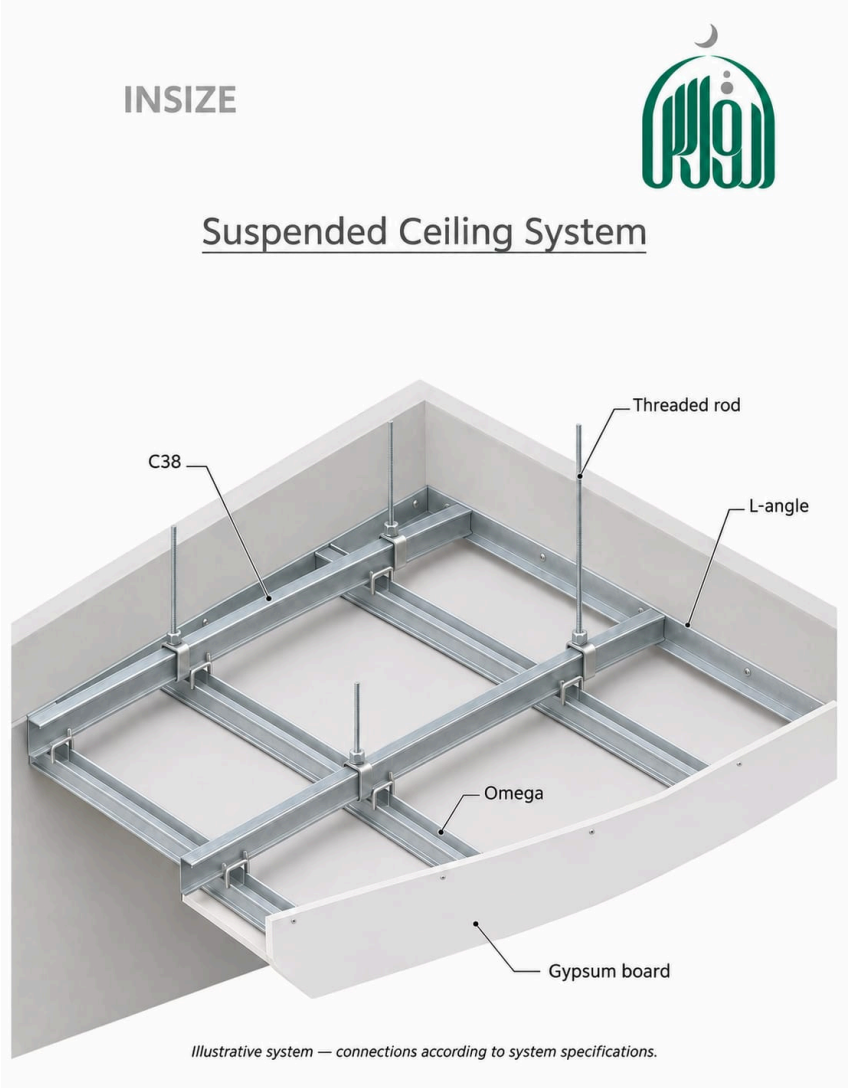
Parameter	Specification
Leg Dimensions	26 × 10 mm (asymmetric L-profile)
Steel Thickness	0.35 – 0.50 mm
Material & Finish	Galvanized steel with scalloped edge & circular mud perforations
Primary Function	Edge reinforcement at shadow gaps, window reveals, and board terminations

Key Advantages

- **Compact 10 mm Return Leg:** Fits cleanly along single board thicknesses and tight framing abutments without overhang.
- **Scalloped Perforated Flange:** Wide 26 mm bonding wing maximizes joint compound keying and eliminates edge hairline cracks.
- **Straight, Impact-Resistant Edge:** Creates a crisp, durable metallic arris along exposed drywall drops and ceiling step-downs.

Suspended Ceiling System

Integrated concealed-grid framing assembly for seamless architectural ceilings.



Illustrative 3D assembly showing Threaded Rod, C38 Carrier, L-Angle, Omega Furring, and Gypsum Board.

System Overview & Architecture

The INSIZE Suspended Ceiling System is a complete, fully coordinated metal framing assembly designed to create monolithic, crack-free drywall ceilings beneath structural concrete or steel slabs. By decoupling the finished ceiling plane from structural slab deflections using adjustable threaded hangers and a cross-braced C 38 / Omega grid, the system accommodates recessed lighting, HVAC ductwork, and acoustic insulation within the ceiling plenum.

System Components

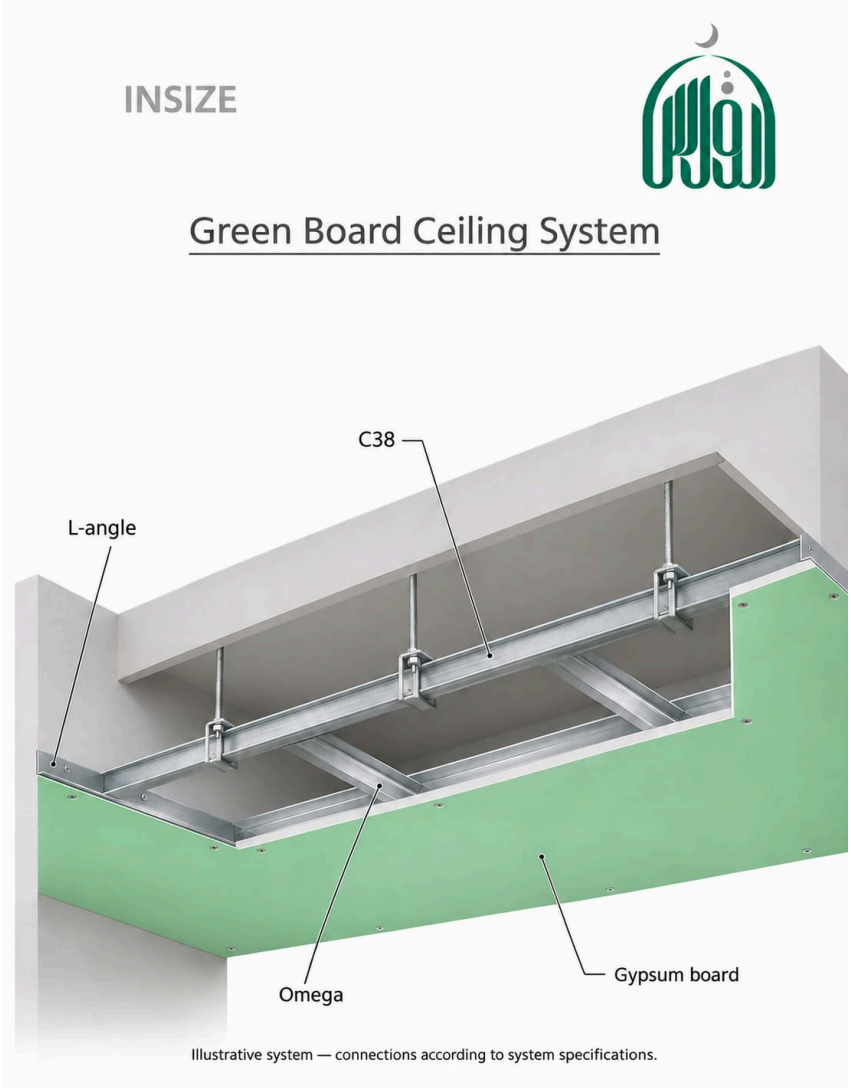
Component	Role in System Assembly
Threaded Rod & Hangers	Suspends the primary grid from the structural soffit with micro-level height adjustment
C 38 Primary Channel	Main load-bearing carrier runners aligned horizontally across the ceiling span
Omega Furring Channel	Secondary cross-channels clipped perpendicular to C 38 to receive gypsum boards
Perimeter L-Angle & Board	Wall-mounted perimeter trim supporting board edges and standard gypsum panels

System Performance Highlights

- **Precision Leveling:** Threaded rod suspension allows rapid millimeter-accurate alignment over uneven structural slabs.
- **Generous Service Plenum:** Safely conceals electrical conduits, sprinkler piping, and air-conditioning ducts above the ceiling line.
- **Acoustic & Thermal Upgrade:** Cavity easily integrates mineral wool or fiberglass batts for enhanced sound attenuation.

Green Board Ceiling System

Moisture-resistant suspended ceiling assembly engineered for humid environments.



Illustrative cutaway of moisture-resistant green gypsum board fixed to galvanized C38 and Omega framing.

System Overview & Application

The INSIZE Green Board Ceiling System combines our corrosion-protected galvanized steel framing grid (C 38 primary carriers, Omega furring channels, and perimeter L-angles) with moisture-resistant green-faced gypsum boards. Specifically formulated for high-humidity interior zones—including bathrooms, kitchens, laundry rooms, locker areas, and indoor pool surrounds—this assembly prevents board sagging, mold growth, and framing corrosion.

System Specifications & Components

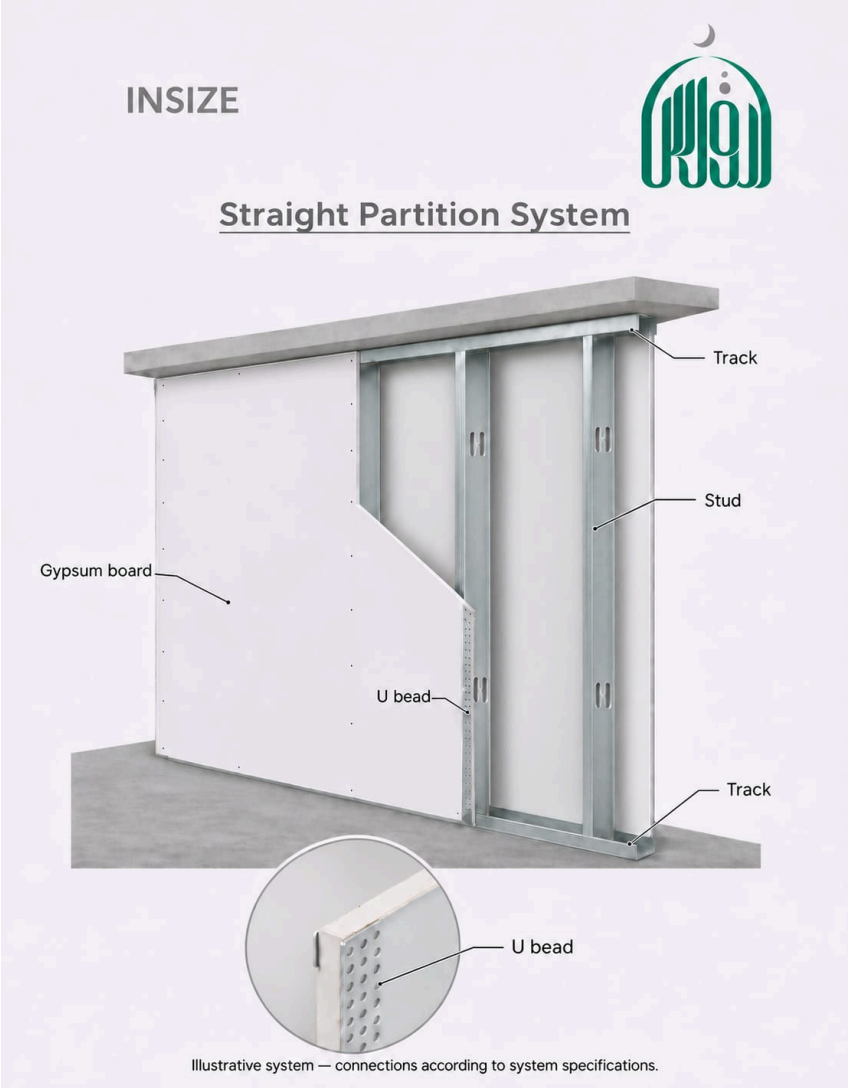
Element	System Configuration
Framing Grid	Galvanized INSIZE C 38 main channels, Omega furring channels, and perimeter L-angles
Cladding Panel	Moisture-resistant (MR) green gypsum board with water-repellent core additives
Suspension Hardware	Galvanized threaded rods and heavy-duty C 38 suspension clips
Target Environments	Bathrooms, commercial kitchens, basements, utility rooms, and humid corridors

Key Advantages

- **Humidity & Vapor Defense:** Silicone-treated gypsum core and water-resistant green liners inhibit moisture absorption.
- **Corrosion-Protected Framing:** Hot-dip galvanized zinc coating on all INSIZE profiles safeguards the substructure against damp air.
- **Tile & Paint Ready:** Provides a stable, flat substrate suitable for moisture-resistant ceiling coatings or ceramic wall-to-ceiling transitions.

Straight Partition System

Lightweight, high-speed non-load-bearing drywall partition framing.



Illustrative partition cutaway showing floor/ceiling Tracks, vertical Studs, Gypsum Board, and U Bead edge trim.

System Overview & Construction

The INSIZE Straight Partition System provides a fast, clean, and lightweight alternative to traditional masonry walls for interior space division. Constructed from floor-and-ceiling galvanized steel Tracks paired with vertical C-shaped Studs featuring pre-punched H-shaped service cutouts, the frame is clad on both sides with gypsum boards and finished at exposed ends with INSIZE U Bead trim.

System Components

Component	Function in Partition Wall
Floor & Ceiling Tracks	U-shaped perimeter channels anchored to the floor slab and soffit to align vertical studs
Vertical Studs	Load-distributing vertical framing posts with service knockouts for electrical conduits
Gypsum Board Cladding	Single or double layers screw-fixed to stud flanges on both wall faces

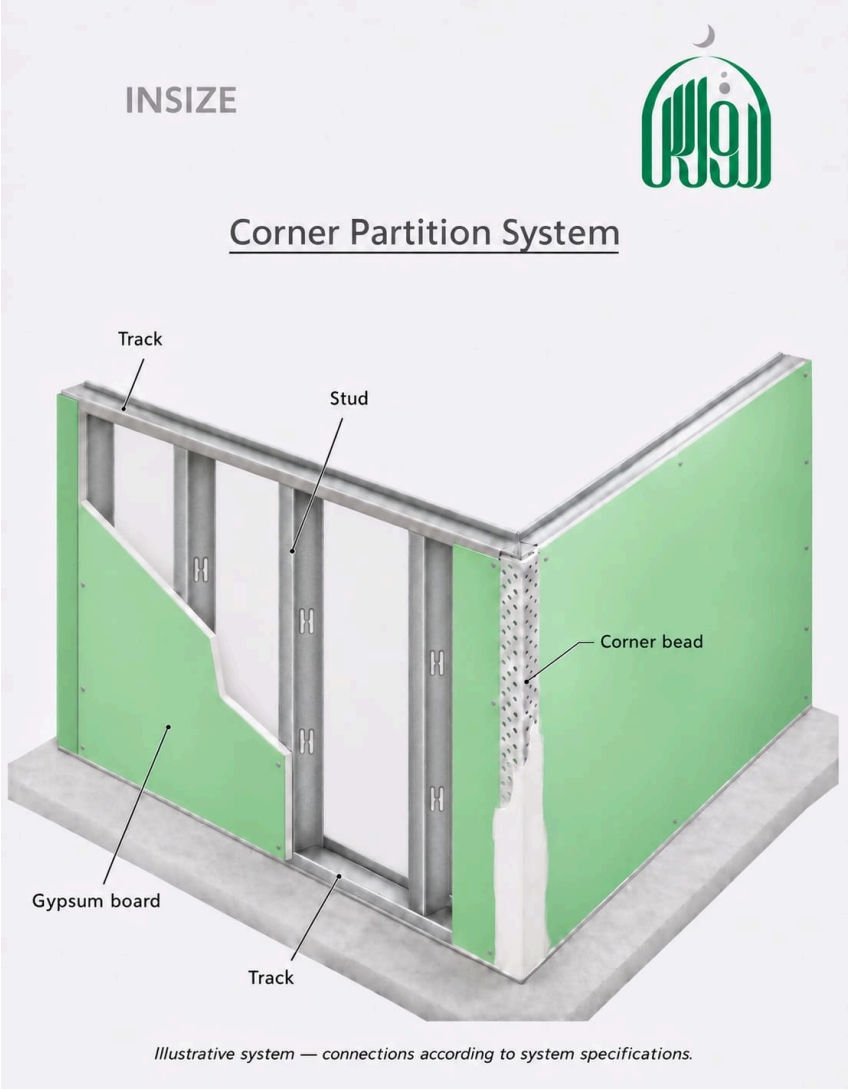
Component	Function in Partition Wall
U Bead Edge Trim	Encases exposed board edges at wall terminations, door openings, and abutments

Key Advantages

- **Rapid Dry Construction:** Eliminates wet mortar curing times, cutting interior fit-out schedules dramatically.
- **Integrated Service Routing:** Factory-punched H-slots in vertical studs allow effortless horizontal wiring and plumbing runs.
- **Reduced Structural Dead Load:** Weighs a fraction of brick or block partitions, reducing slab loading in multi-story buildings.

Corner Partition System

Structurally interlocked 90° drywall partition intersection with reinforced corner protection.



Illustrative 90° corner assembly showing interlocked Tracks/Studs, Gypsum Board, and Corner Bead finishing.

System Overview & Corner Detailing

The INSIZE Corner Partition System demonstrates the engineered intersection of two perpendicular drywall partitions meeting at a 90-degree external angle. Floor and ceiling Tracks are cleanly lapped at the corner while boxed or back-to-back vertical Studs provide solid backing for overlapping gypsum board sheets. The external apex is finished with an INSIZE perforated Corner Bead embedded in joint compound for maximum impact resistance.

System Components

Component	Role in Corner Intersection
Intersecting Tracks & Studs	Rigidly joined galvanized steel framing members forming a square 90° structural corner post
Gypsum Board Panels	Overlapped board edges fastened securely to corner studs to prevent joint separation
INSIZE Corner Bead	23 × 23 mm perforated galvanized corner guard embedded in joint compound at the external edge
Joint Compound Finish	Feathered over the Corner Bead wings to create a smooth, continuous wall surface

Key Advantages

- **Crack-Free Corner Geometry:** Rigid stud backing combined with overlapped board joints prevents corner stress cracking.
- **Heavy-Duty Edge Armor:** Full-height INSIZE Corner Bead protects busy corridor corners from carts, furniture, and impact.
- **Complete System Synergy:** All tracks, studs, boards, and finishing beads work together as a unified, tested drywall solution.