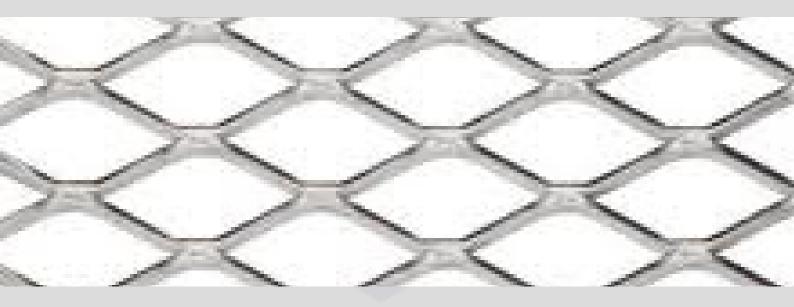




CEILING SUSPENSION SYSTEM AND PARTITIONS



EXPANDED MESH & METAL PRODUCTS



AI MANA METAL INDUSTRIES W.L.L رم. بي قينعدما تادلنصل خناماا

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ABOUT THE

COMPANY



Al Mana Metal Industries (AMI) is a company under the prestigious group Al Mana International Holding which was established in 1952 in Qatar.

Al Mana Metal Industries (AMI) is a production facility in Qatar, which specializes in manufacturing insulated panels, corrugated sheets and it's accessories, Z & C purlins, Decking panels.

AMI also manufactures expanded metal products like the Angle beads, Plaster stop beads, block work mesh etc. which is used for the reinforcement purposes and plaster embracing in addition to give better finishing and stronger edges resulting to the increased life time of any building. We do manufacture the wall tie which is used to firmly fix the block to block or block to column etc.

AMI is also producing Galvanized Iron lintels which is a substitute for the RCC Lintels. By using our GI Lintels the customers can save time, money, energy etc.

Another area of our manufacturing is in the field of ceiling suspension and wall partitioning system, which is extensively used in the gypsum ceiling and dry wall partitioning.

Recently we have added Insulated gutters, Tee grade system, Structural Steels, Hanex, Skylight, Aluminium Profile (Shadow Gap) in our products lineup.

AMI emphasises on quality products catering for today's competitive and demanding business environment Using advanced technology supplement with stringent quality control systems, we ensure that our high production standards are met. Furthermore, with depth knowledge of our manufacturing systems capability ties, our products have achieved a very high-quality standard in this industry.

At AMI, the study, production and sale of our products takes place in total respect of the environment surrounding us. The protection of the health of our customers is our main concern The quality of work is identified in the correctness between employees, the well-being of the working environment and the enthusiasm of all the personnel involved in the production cycle AMI believes in prompt delivery, uncompromising commitment to customers satisfaction and in excellence in all what we do.



About Ceiling Suspension & Partitions System

Ceiling suspension systems are considered an important substitution for ordinary ceiling which is widely used in different locations either indoor or outdoor. Through the last 30 years, Ceiling systems has gone under a lot of improvements and development, depending on the place of usage and the way assembly.

Dry wall partitioning systems as in the case of ceiling suspension systems are considered as a substitution for ordinary plastered walls.

The advantage of this system is that this can be installed easily, less time consuming compared to the ordinary plastered walls, saves time and energy and also easily removal when required to change the layout of offices or homes.

This catalogue show Ceiling suspension systems & Partitions manufactured by AMI





AMI will add new production lines of ceiling suspension systems to meet the client's projects expectations by offering a wide range of choices with the highest standards and the best quality.

Our items conform with the British (BS) and American (ASTM) standards in all stages of manufacturing.

Perforated and plain metal tiles, in both standard and tailor made sizes, are available for both concealed and a lay-in and variety of exposed grid suspension systems.

AMI offers the virtue of access with the clean, crisp appearance that a metal ceiling provides.



AMI guarantee you a unique product that can easily meet your expectations, AMI emphasizes on quality in its products, catering for today's competitive and demanding business environment. Using advanced technology supplemented with stringent quality

control systems, to ensure high production standards.

Furthermore, with deep knowledge of our manufacturing system capabilities, our products have

achieved very high quality standards in this industry.



Having earned a reputation as a manufacturer and supplier of quality products, we fully recognize that constant improvement is a vital requirement for our continued success.

AMI believes in prompt delivery and highest product value to its customers.

Our service excellence comes from our committed investment on complete in-house manufacturing and computer systems.

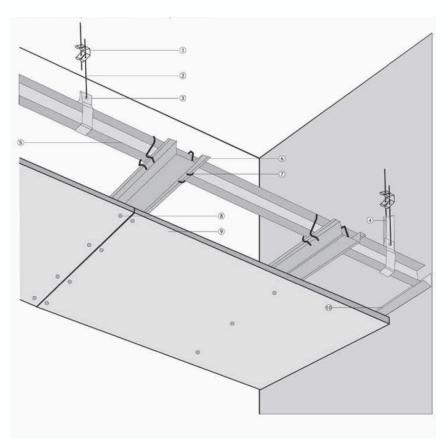




Dryline Furring Channel System

Dry Line Furring Channel System is a versatile hat-shaped metal channel, designed for "Furring" out any surface for final finish application-Furring Channel is used in conjunction with cold rolled channel, suspended steel frame cladded with gypsum board sheets.

This system is ideal for smooth areas that is needed without joints or for concealing services.



- 1- Adjustable Clip
- 2- Hanging Wire
- 3- Main Channel Bracket
- 4- Rigid Channel & Wangle
- 5- Main Channel
- 6- Furring Channel
- 7- Wire Clip
- 8- Dry Wall Screw
- 9- Gypsum Board
- 10- Wall Angle



Main Suspension Parts

Furring Channel

Reference	Dimentions mm		mm	Thickness mm	Length mm	Material
	Α	В	С			
FC 38	35	22	68	0.4 up to 0.9	3000	Galvanized
FC 45	50	22	83	0.4 up to 0.9	3000	Galvanized





Main Channel

Reference	Dimentions mm		mm	Thickness mm	Length mm	Material
	Α	В	С			
C 38	12	38	12	0.4 up to 0.9	3000	Galvanized
C 45	12	45	12	0.4 up to 0.9	3000	Galvanized
C 50	12	50	12	0.4 up to 0.9	3000	Galvanized

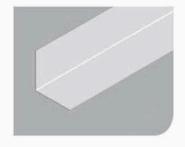




Wall Angle

Reference	Dimentions mm		Thickness mm	Length mm	Material
	Α	В			
A 25	25	25	0.4 up to 0.9	3000	Galvanized
A 30	30	30	0.4 up to 0.9	3000	Galvanized
A 40	40	40	0.4 up to 0.9	3000	Galvanized
77.10			011 up to 015	5555	Carranized







T Grid suspension

AMI T Grid Suspension System is an aesthetically appealing exposed ceiling grid system that provides a variety of major benefits of improved strength, lower weight, better spring tension characteristics and enhanced screw retention.

Field of Application

- · Residential buildings
- · Commercial buildings
- Hospitals
- Airports
- · Educational sector buildings
- · Light industrial and manufacturing projects

Benefits of T Grid Suspended Ceiling

- It is economical, easy to install, using less labour to complete the installation at minimum time as compared with conventional extruded aluminium tee system.
- Interchangeability of main and cross tees between systems, promotes lower inventory requirements and greater field flexibility.
- The straight entry locking feature of the section allows the system to be installed easily within close proximity of the overheads.
- The system promotes complete designs flexibility.

T grid parts

- Main tee
- Cross tee (Long)
- Cross tee (Short)
- Wall angle







Main tee

Main Tees are suspended by suspension system and carry the weight of the Grid system. These Tees have a system of interlocking with each other in order to provide an additional length and thus form a continuous mesh across the space where they are used.

They have the following features:

- Hanger holes
- · Slots to interlock Cross T

Dimension:

24 mm x 36 mm x 3600 mm

Cross Tee

They are used intermittently at the specified distances and are inter locked with the Main Tees. Typically, the Cross Tees are of 2 sizes: 1200 mm and 600 mm. They thus form modules which makes a mesh/grid.

Dimension:

24 mm x 36 mm x 1200 mm Cross tee (Long)

24 mm x 36 mm x 600 mm Cross tee (Short)

Wall Angle

Wall angle is fixed to the perimeter of the wall at the ceiling level to hold the Main Ts and gives a finish when it terminates on the wall.

Dimension:

22 mm x 22 mm x 3000 mm



Installation Steps:

- 1.) Determine the requirement ceiling level, mark the position and fix wall angle on the wall.
- 2.) Hang main tee with T-bar suspension hook.
- 3.) Insert cross tee to the main tee.
- 4.) Cross tee adjacent to wall angle light fittings
- 5.) Adjust the levels and alignments throughout the entire grid system accurately
- 6.) Install PVC gypsum ceiling tile or other materials ceiling panel.





Shadow gap (Aluminium F profile)

Shadow gap is Ideal for creating a neat shadow line perimeter detail between various materials and surfaces.



Shadow gap trims can be used between plasterboard, mineral fibre, suspended ceiling tiles systems and more.

Specification:

Materials: Aluminium

Thickness: 0.80 mm – 1.20 mm



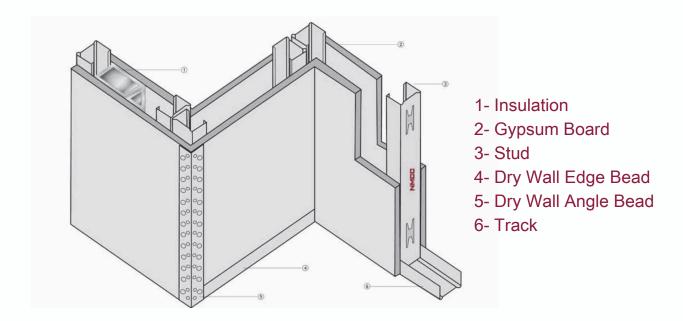
Features:

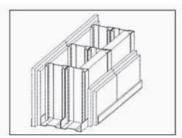
- Treating the cracks which may exist between drywall ceiling and plaster wall.
- · Adding a beautiful touch to the ceiling in a multi-level design.



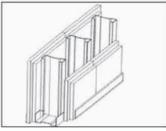
Drywall Partitioning System

Drywall Partitioning System is used in conjunction with cold roiled channel, steel frames of stud and track, used for interior non load-bearing walls, which has to be cladded with gypsum board or other cladding sheets. This system in widely used in offices and residential buildings due to easy installations.

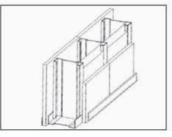




Double Stud Wall / Double Layer



Single Stud Wall / Double Layer



Single Stud Wall / Single Layer



Main Partitioning

Stud

Reference	Dime	Dimentions mm		Thickness mm	Length mm	Material
	Α	В	С			
S45	45	36	34	0.4 up to 0.9	3000	Galvanized
S50	50	36	34	0.4 up to 0.9	3000	Galvanized
S53	35	36	34	0.4 up to 0.9	3000	Galvanized
S60	60	36	34	0.4 up to 0.9	3000	Galvanized
S63	63	36	34	0.4 up to 0.9	3000	Galvanized
S70	70	36	34	0.4 up to 0.9	3000	Galvanized
S73	73	36	34	0.4 up to 0.9	3000	Galvanized
S92	92	36	34	0.4 up to 0.9	3000	Galvanized
S98	98	36	34	0.4 up to 0.9	3000	Galvanized
S148	148	36	34	0.4 up to 0.9	3000	Galvanized



Other sizes of depth & flange can be made upon request



Track

Reference	Dime	Dimentions mm		Thickness mm	Length mm	Material
	Α	В	С			
T47	47	30	28	0.4 up to 0.9	3000	Galvanized
T52	52	30	28	0.4 up to 0.9	3000	Galvanized
T55	55	30	28	0.4 up to 0.9	3000	Galvanized
T62	62	30	28	0.4 up to 0.9	3000	Galvanized
T65	65	30	28	0.4 up to 0.9	3000	Galvanized
T72	72	30	28	0.4 up to 0.9	3000	Galvanized
T75	75	30	28	0.4 up to 0.9	3000	Galvanized
T94	94	30	28	0.4 up to 0.9	3000	Galvanized
T100	100	30	28	0.4 up to 0.9	3000	Galvanized
T150	150	30	28	0.4 up to 0.9	3000	Galvanized





Dry Wall Angle Bead Perforated

Reference	A mm	Length mm	Material
DAB 30	30 x 30	2400 / 3000	Galvanized



Dry Wall Edge Bead Perforated

Reference	A mm	Length mm	Material
DABP 15	15	3000	Galvanized





Hanex

Hanex Solid Surface is an acrylic solid surface material which is composed of Methyl Methacrylate (MMA) and Poly Methyl Methacrylate (PMMA) resin filled with Alumina-

Trihydrate and other specialized

formula to give it a timeless beauty and quality.

The unlimited design flexibility of Hanex enables you to create beautiful, durable and aesthetically pleasing surface in any residential and commercial setting.

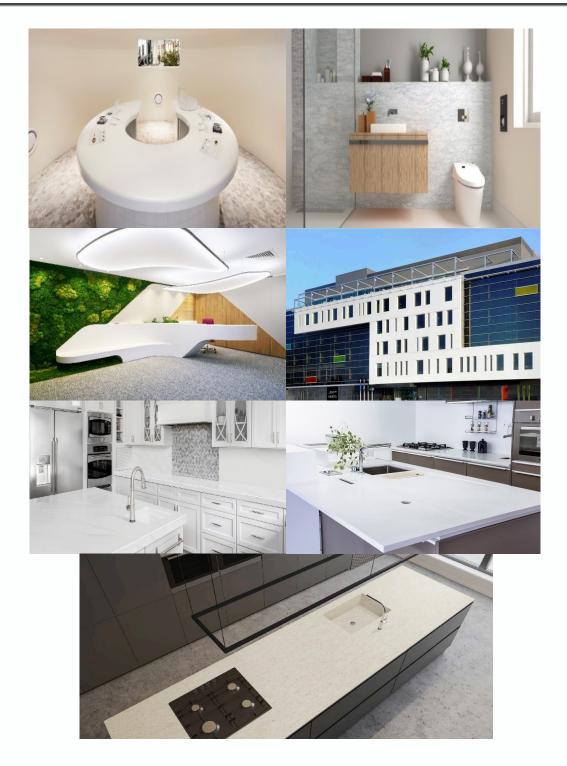
Commercial applications include any vertical or horizontal surface in Kitchens, Bathrooms, Airports, Hospitals, Food Preparation Facilities, Retail Outlets, Schools, Universities, Stadiums, Offices, Exhibition Stands & Public Buildings.



Benefits of hanex solid surfaces

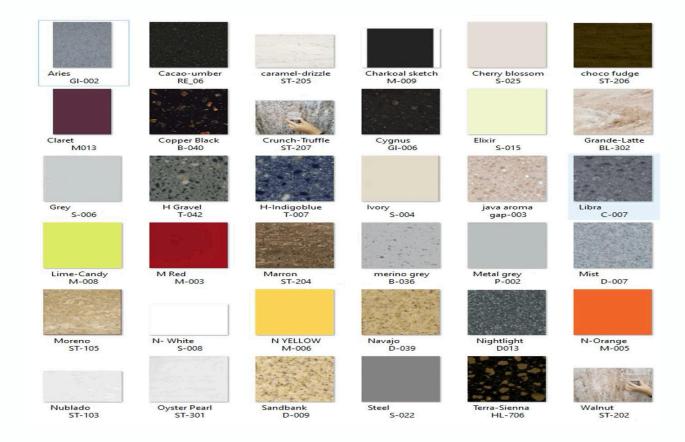
- Wide range of colours & patterns
- Unlimited flexibility
- Easy maintenance / repairs
- · Easy to fabricate
- Durability
- Stain resistance report
- · Bacteria resistant
- Thermal stability
- Certified quality







Hanex colours





Technical Specifications

Raw Material Standards

o Aluminium BSEN 573-3:2009. BSEN 405-2:2008

ASTM 13 209 M in Alloy Grade 3005 & 3105

o Galvanired Steel BS EN 10346:2009 (formerly BS EN 10142:1991)

costing type: Z120, Z180 & Z275

ASTM A 653/A653M

o Stainless Steel BS EN 10088-2:2005(which was direct equivalent to formerly

BS 1449:Part 2:1983, in Mirror FINISH) ASTM A24O/A24OM in Mirror FINISH

Manufacturing Standards

O DryWall Partitioning System & BS EN 10162:2003, PS 5234-1:1992.

Dryline Ceiling System BS 7364:1990, BS EN 14195:2005

ASTM C 645

O Ceiling Suspension ASTM C 635-97

System(T-Grid System)

O Powder Coating to BS 6497:1984



About Expended Mesh System

Expanded metal is a mesh formed from a single piece sheet metal. That sheet of solid metal is slit and stretched with each stroke of a die which forms a raised diamond pattern. The pattern varies by gauge and type of material and the size of the diamond. The meshes can be pressure rolled into a flat condition so that the strands are in the same plane as the sheet. Expanded Metal mainly used for reinforcement purposes and plaster embracing in addition to giving better finishing and stronger edges which increase the life time of any building,





AMI has been supplying mesh and wire products since 2009. When you call AMI, you become our number one priority. Whether your requirements are large or small, our experienced staff members are committed to meeting your needs accurately and efficiently.



Standard products are stocked and distributed from our Industrial area based factory. AMI offers a complete service to its customers producing customized meshes built to order in small batch quantities or high volume. Quick quotes, for standard products in moments for non standards you may have to wait for a few minutes or longer dependent on the complexity of your requirements



AMI believes in prompt delivery and highest product value to its customer. Our service excellence comes from our committed investment on complete in-house manufacturing.





Metal Beads

Angle Bead

Application

The intended use of Angle Beads is to help the formation of corners and abutments which are resistant to chips, cracksr and impact damage. Protecting corners & edges and giving better shape are the main purpose

Fixing

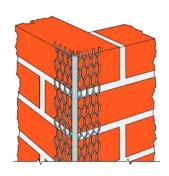
Fix either by nailing or using plaster dabs.

Reference	Width of Wing(w)	Length	Material	Qty/Box
	mm	mm		piece
AB 45	45X45	2400/2700/3000	Galvanized	50
AB 50	50X50	2400/2700/3000	Galvanized	50
AB 55	55X55	2400/2700/3000	Galvanized	50
AB 65	65X65	2400/2700/3000	Galvanized	50
AB 45 S	45X45	2400/2700/3000	Stainless Steel	50
AB 50 S	50X50	2400/2700/3000	Stainless Steel	50
AB 55 S	55X55	2400/2700/3000	Stainless Steel	50

2400/2700/3000

Stainless Steel

50





Plaster Stop Beads

65X65

Application

AB 65 S

Plaster Stop Beads are used for the finishing and reinforcing of piaster edges. They provide a true Straight line and protect the plaster where it is most vulnerable. They are available to suit various plaster depths.

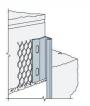
Fixing

Fix either by nailing or using plaster dabs.

Reference	Width of Wing(w)	Length	Material	Qty/Box
	mm	mm		piece
AB 45	45X45	2400/2700/3000	Galvanized	50
AB 50	50X50	2400/2700/3000	Galvanized	50
AB 55	55X55	2400/2700/3000	Galvanized	50
AB 65	65X65	2400/2700/3000	Galvanized	50
AB 45 S	45X45	2400/2700/3000	Stainless Steel	50
AB 50 S	50X50	2400/2700/3000	Stainless Steel	50
AB 55 S	55X55	2400/2700/3000	Stainless Steel	50
AB 65 S	65X65	2400/2700/3000	Stainless Steel	50









<u>Architrave Beads (Abutting Type)</u>

Mainly it's used for decorative purposes to give a channel gap or a shadow between different walls finishes (i.e. wall and telling or door and window)







Reference	Size	Length	Size	Material	Qty/Box
	mm	mm	mm		piece
AR 19	19	3000	10/13	Galvanized	50
AR 23	23	3000	10/13	Galvanized	50
AR 19 S	19	3000	10/13	Stainless Steel	50
AR 23 S	23	3000	10/13	Stainless Steel	50

Method of Application

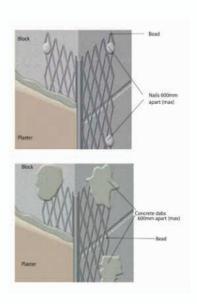
The most appropriate AMI metal bead should

be chosen to suit the application, required plaster depth and the desired finish of the work.

Using galvanised or stainless steel nails (compatible with bead material), fixed at a maximum of 600 mm apart. When nailing to a solid background the line of the bead will follow the line of the background.

Pressing dabs of the same material as the undercoat onto bead. Dabs should be applied at a maximum of 600 mte apart. This method will even out minor irregularities in the line of the background, although the line of the bead will tend to generally follow the line of the background.

When heads are used with metal lath backgrounds, galvanised or stainless steel may be used to secure the beads in position. Soft galvanised wire or soft stainless steel wire should be used to match the bead and lath materials. All wires should be twisted tightly and the ends bent away from the finished face of the coaling.





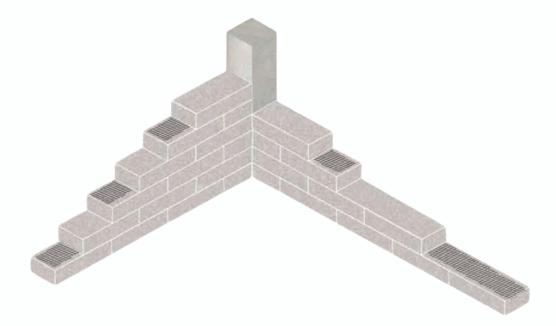
Block Work Expanded Mesh

Block Work Mesh is an anti-crack reinforcement mesh for non-structural use. Block work reinforcement mesh should be used in every second course of a wall. Combinations of different widths of reinforcement mesh may be used to suit any wall thickness, it is also recommended for window and door frames for stress resistance.

Reference	Coil Width	Length mm	Material
MC 100	100	50/100	Galvanized
MC 150	150	50/100	Galvanized
MC 175	175	50/100	Galvanized
MC 200	200	50/100	Galvanized
MC 250	300	50/100	Galvanized
MC 300	100	50/100	Galvanized
MC 100 S	150	50/100	Stainless Steel
MC 150 S	175	50/100	Stainless Steel
MC 175 S	200	50/100	Stainless Steel
MC 200 S	100	50/100	Stainless Steel









Corner Lath

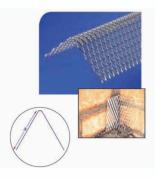
Application

Corner Lath is a joint less mesh, bent length wise in the center and are used inside comer joints dissimilar material base.

Fixing

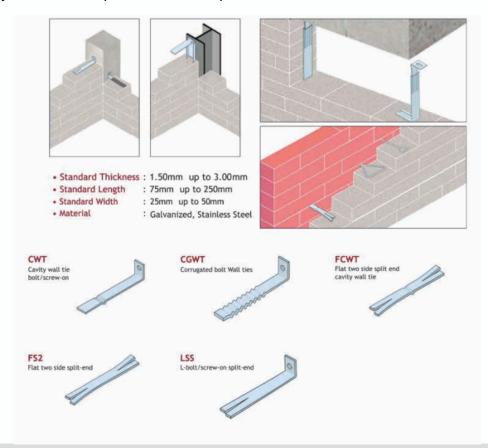
Fix either by nailing or using plaster dabs.

Reference	Width Of Wing mm	Length Material				Qty / Box piece
CRL 50	50 x 50	2500/3000	Galvanized	50		
CRL 75	75 x 75	2500/3000	Galvanized	50		
CRL 90	90 x 90	2500/3000	Galvanized	50		
CRL 100	100 x 100	2500/3000	Galvanized	50		
CRL 50 S	50 x 50	2500/3000	Stainless Steel	50		
CRL 75 S	75 x 75	2500/3000	Stainless Steel	50		
CRL 90 S	90 x 90	2500/3000	Stainless Steel	50		
CRL 100 S	100 x 100	2500/3000	Stainless Steel	50		



Wall Ties

AMI wall ties, Anchor Plates, are used to attach structural members or equipment to concrete structure: Plates and Angles can also be used to frame openings in concrete walls or as shelf angles, they are used with precast or cast in place concrete.





Lintel

AMI Steel channel lintels provide open span support over door and window apertures providing light weight support and efficient load bearing for all types of block.

All AMI Lintels are manufactured using prime steel galvanised with zinc which can be coated with black thermoset polyester powder or black dual-coat epoxy paint which provides excellent long-term corrosion resistance

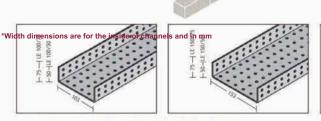


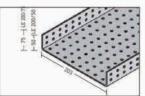
Installation

- Lintels shall be simply supported at each solid base using a minimum end bearing of 200 mm.
- Lintels should not be cut to length or used if damaged or welded.
- Lintels must always be used within their weight capacity (see Lintels table).
- Use support at centre until mortar is dry to avoid high deflection.

Advantage

- Easy to use.
- Time saving.
- · Cost effective.







Plaster Key

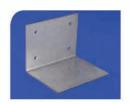
Generally lintels are supplied with perforations as a plaster key but occasionally It may be necessary to supply expanded mesh fixed to the lintels as an alternative.

Lintels Table

Safe working load uniformly distributed (tonnes)

Reference	Guage Code	Thickness mm	Weight Kg/m	Height of Flang mm	Width of Lintel	0.91-1.2	1.30-1.50	1.60-1.80	1.90-2.10	2.20-2.40
LE 100/50	Α	2.0	3.0	50	100	0.55	0.42	0.31	-	-
	В	2.5	3.7	50	100	0.80	0.58	0.38	0.24	0.18
	С	3.2	3.7	50	100	1.12	0.66	0.44	0.31	0.23
LE 100/75	С	3.2	5.9	75	100	1.63	1.25	1.00	0.86	0.64
	Α	2.0	5.6	50	150	0.48	0.37	0.27	-	-
LE 150/50	В	2.5	5.9	50	150	0.76	0.58	0.41	0.27	0.19
	С	3.2	4.7	50	150	1.22	0.79	0.52	0.37	0.28
LE 150/75	С	3.2	7.1	75	150	1.63	1.25	1.00	0.86	0.64
LE 200/50	Α	2.0	4.4	50	200	0.62	0.48	0.35	-	-
	В	2.5	7.1	50	200	0.77	0.59	0.41	0.29	0.21
	С	3.2	4.7	50	200	1.05	0.80	0.53	0.38	0.28
LE200/75	С	3.2	8.5	75	200	1.63	1.25	1.00	0.86	0.64

Lintels Brackets



Reference	A mm	B mm	C mm	Thickness mm	Suitable Lintel	No &Diameter of Anchors
LB 100	100	150	150	4/5/6	LE 100	3 x M 8 x 80
LB 150	150	150	150	4/5/6	LE 150	4 x M 8 x 80
LB 200	200	200	150	4/5/6	LE 200	3 x M 10 X 80

*Special designs are available upon request



Technical Specifications

Metal Beads

O Manufactured to BS EN 1 3658- 1 & 2:2005 (formerly BS 6452:Part 1: 1984)

ASTM C 1047

O Galvanized Steel BS EN 10346:2009 (formerly BS EN 10142:1991) coating type: Z180-275

ASTM A 653/A 653M

O Stainless Steel BS EN 10088-2:2005 (which was direct equivalent to formerly

BS 1449:Part 2:1983 in Grade 304 2B FINISH) ASTM A240/A240M in Grade 304 2B FINISH

Expanded Metal Lath & Work Expanded Mesh

O Manufactured to BS EN 1 3658- 1 & 2:2005 (formerly BS 6452:Part 1: 1984)

ASTM C 847

O Galvanized Steel BS EN 10346:2009 (formerly BS EN 10142:1991) coating type: Z180-275

ASTM A 653/A 653M

O Stainless Steel BS EN 10088-2:2005 (which was direct equivalent to formerly

BS 1449:Part 2:1983 in Grade 304 2B FINISH) ASTM A240/A240M in Grade 304 2B FINISH

Reinforcement Mesh

o Manufactured to BS EN 845-3:2003

ASTM A 951/A 95IM

o Cold drawn steel for concrete/ BS 4482:2005

masonry Reinforcement ASTM A 496/A 496M,ASTM A 82/A 82M

0 Pre Galvanized Steel Wire BS EN 10244-2:2001 (formerly BS 443)

ASIM A 641 /A 641 M

o Stainless steel wire: BS EN 10088-3:2005 (which was direct equivalent to formerly

BS 1554:1990)

ASTM A 1022/ A 1022M

Wall Ties

Sheet

o Mariulacured to BS EN 845-1:2003 (formerly BS 1243)

o Pre Galvanized Steel BS EN 10346:2009 (formerly BS EN 10142:1991)

ASTM A 653/A 653M

o Mild Steel BS EN 10149-3:1996

o Stainless Steel BS EN 10088-2:2005 (which was direct equivalent formerly

BS 1449: Part 2:1963 in Grade 304 2B FINISH) ASTM A240/A 240 M in Grade 304 2 B FINISH



Technical Specifications

Lintels

O Manulacured to BS EN 845-2:2003. BS 5977;Part 1:1981

O Galvanized Ste BS EN 10346:2009 (formerly BS EN

10142:1991) coating type;Z180-275

Drywall Beads

O Manufactured to BS EN 13568-1& 2:2005 1 formerly BS

1369;Part 1:1987) ASTM C 847

O Galvanized Steel BS EN 10346:2009 (formerly BS EN

10142:1991) coating lype;Z180-275

ASTM A 653/A 653M

O Stainless Steel BS EN 10088-2:2003 (which was direct

equivalent to formerly

BS 1449:Part 2:1983 in Grade 304 2B

-INISH)

ASTM A240/A 240M in Grade 304 2B

FINISH

Storage Conditions

Please follow the below recommendations for storage Conditions:

- Store in covered and dry area.
- Avoid contact with sand, chemicals & water.



Other Products in Our Lineup



- SANDWICH PANELS



- CORRUGATED SHEET

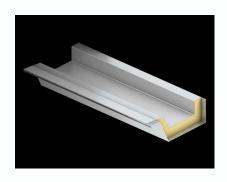


- RIDGE CAP / SIDE CAP / END CAP



- FLASHINGS / GUTTERS





- INSULATED GUTTERS



- PURLINS



- DECKING SHEET



- LINER SHEET

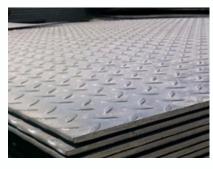




- SKYLIGHT



- STRCTURAL STEEL



- FIXING ACESSORIES



