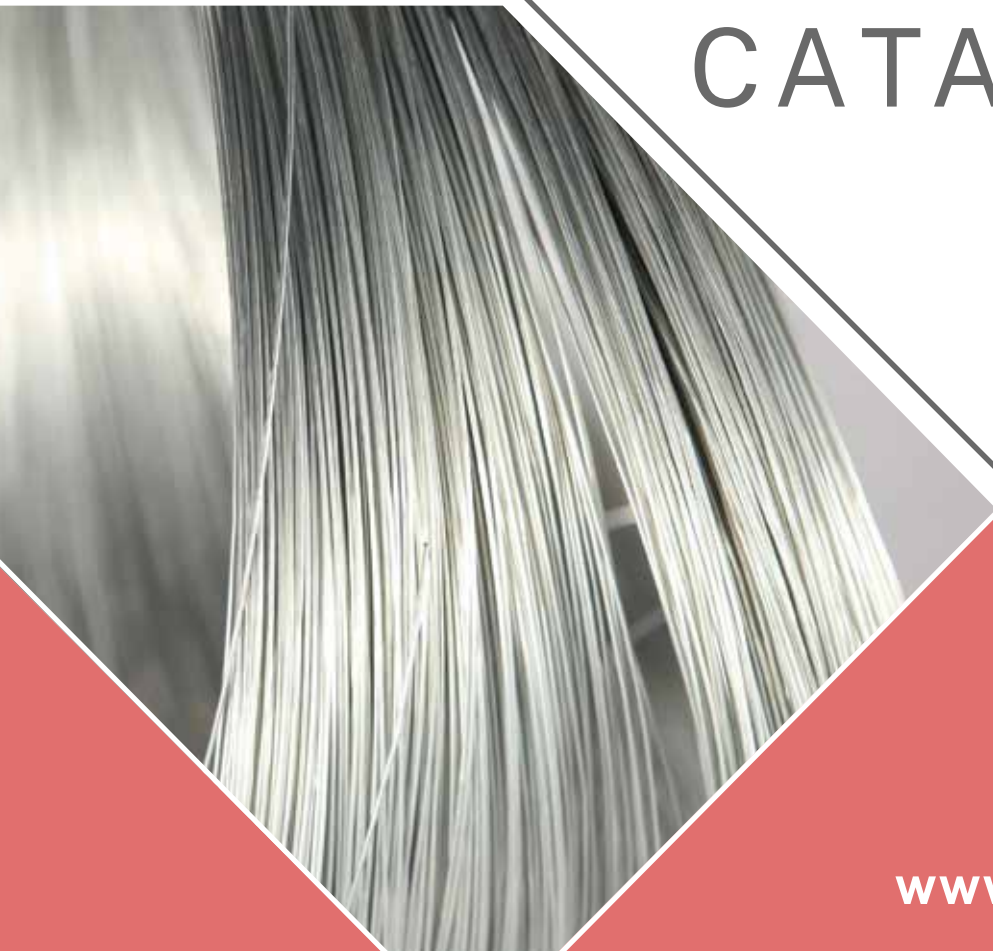




PRODUCT
CATALOG

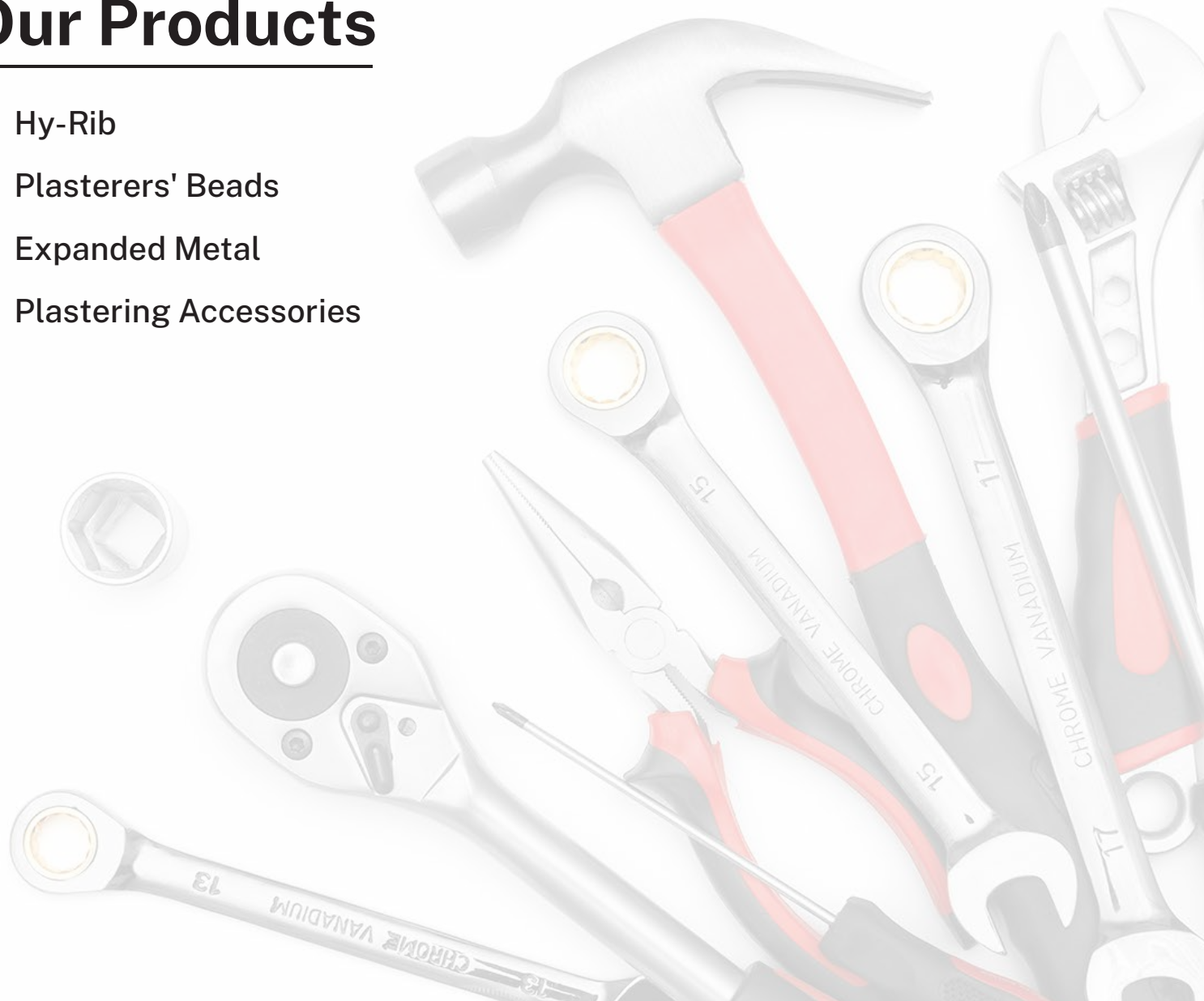




Our Products

- ◆ General Hand Tools
- ◆ Building Materials & Wrapping Tapes
- ◆ General Building Materials
- ◆ Cutting Discs
- ◆ Blockmesh
- ◆ Block Reinforcements
- ◆ Fiber Expansion Joint Filler
- ◆ Fiber Discs (Stone & Metal)
- ◆ Backup Rods
- ◆ Heavy Duty Tie System
- ◆ Aluminium Ladders
- ◆ Mobile Moving Platform Ladder
- ◆ Safety Materials
- ◆ Hessian Fabric
- ◆ Aluminium Scaffolding
- ◆ Genie Scissor Lift (GS)
- ◆ Genie Aerial Work Platforms (AWP)
- ◆ PVC Spacers
- ◆ PVC Chamfers
- ◆ ALP Materials Lift
- ◆ Polyethylene Film
- ◆ Polyethylene Sheets
- ◆ Drifix
- ◆ Scaffolding Netting
- ◆ Concrete Spacers
- ◆ Scaffolding Fittings
- ◆ Jolly Bitulex



- # Our Products
- Hy-Rib
 - Plasterers' Beads
 - Expanded Metal
 - Plastering Accessories
- 
- A collection of tools including a hammer, wrenches, pliers, and sockets, all with red and black handles, set against a white background. The tools are arranged in a way that shows their various parts and features. The hammer has a silver head and a red handle. The wrenches are silver with red handles and are labeled '17' and '15'. The pliers are silver with red handles and are labeled '15'. The sockets are silver and are labeled '13' and '15'. The tools are arranged in a way that shows their various parts and features.



Riveting Tool



Axe for Cutting Wood



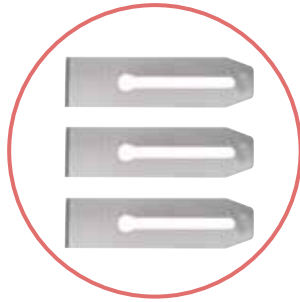
Pliers 8"



Pliers 6"



Hacksaw Frames 12"
(Also Spare Blades)



Spare Blades
for Jack Planes



Bow Saw 30" & 24"
(Also Spare Blades)



End Cutting Nippers
6", 8", 10"



Carpenters Pincers
6", 8", 10"



Hand Saw for Wood
12", 18", 24"



Wire Brush



Vice Grip



Junior Hacksaw
(Also Spare Blades)



Claw Bars
18", 24", 30"



Ratchet Brace
(Auger Bits all Sizes)



Chalk Reel
(Powder Blue & Red)



Bench Planes



Pick Hammer



Hand Drill



Carpenter Hammer



Mason Hammer
(German Type)



Club Hammer
1000 g. 1500 g. 2000 g



Plastic Hammer
(Small, Medium & Large)



Concrete Cold Chisel
Flat Edge & Point Edge



Plumb Bob
400 g, 500g & 1000 g



Countersunk
12mm, 16mm, 18mm



Rubber Hammer
(Small, Medium, Large)



Wooden Hammer Handles
(For All Type Hammers)



Bolt Cutter
18", 24", 30", 36", 42"
(Also Spare Blades)



Mason Line
1mm x 50 mtr
1mm x 100 mtr



Drill Bits
(For steel & Concrete
Marble Etc.)



Mason Hammer
100g, 200g, 300g, 400g,
500g, 800g, 1kg, 1.5kg, 2kg



Allen Key Set
1mm - 10mm
(also in inch size)



Aviation Snip
Right, Left, Straight
(Also Shears 10", 127")



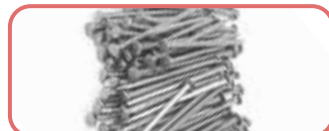
Korean Type Files
4", 5", 6"
(Also Files
all Sizes & all Type)



Wood Chisel
6mm, 8mm, 10mm,
12mm, 16mm, 18mm,
20mm, 22mm, 25mm,
32mm, 38mm, 50mm
(also set of 6mm, 8mm,
10mm, 12mm, 18mm,
25mm, 32mm, 38mm)



Concrete Nails



Wooden Nails



Sponge Trowel



Plastic Floater



Square Trowel



Steel Sponge Trowel



Pointed Trowel



Plastering Trowel



Plastering Trowel



Plastering Trowel



Trowel



Aluminium Profile



Alu. Spirit Level



Edge Trowels



Steel Chalk



White Chalk



Plastering Bucket



Cement Bucket



Scrapers



Self-Adhesive Tapes



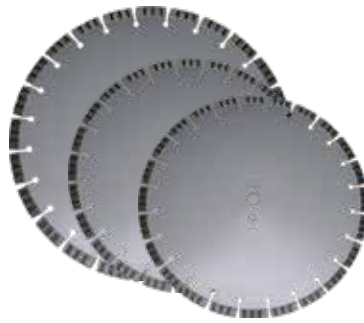
Wrapping Tapes



Steel Plastic Tapes



Block Cutting Machine
Platform Type



Diamond Blades
Dia. 4", 7", 10", 12", 16", 18" & 20"



Sprayer
3½ Gal, & 5 Gal Cap



Abrasive Cutting Disc
4", 7", 9", 12", 14"



Block Cutting Machine



Concrete Cutting Machine



Grinding Discs
4", 7", 9", 12", 14"



Caulking Gun (Cartridge Type)
11 oz & 29 oz



Caulking Gun (Barrel Type)
2½ qt Cap. & 29 oz Cap



Wooden Tape Rule
Folding 2 m with cm & inch



Concrete & Metal Cutting
Machine with Gasoline



Drill Bit Sets
for Concrete & Steel

STEEL AND STONE

For craftsmen, industry or semi-professional use: In abrasives, has the abrasive for every application.



PERFECT LINE

The best-seller with an excellent price/performance ratio. It has proven itself a million times in the hands of craftsmen and semi-professionals.

- ◆ Manufactured according to EN 12413
- ◆ Complies to OSA regulations
- ◆ Made in Saudi Arabia



SPECIAL LINE

The special line for craftsmen and industrial applications, Due to the fact that different materials impose different demands, DRONCO produces discs especially matching the respective material. Special types of corundum and bounds are combined to suit the task in hand. This optimises performance, extends service life, increases efficiency and reduces cutting time.

- ◆ Manufactured according to EN 12413
- ◆ Complies to OSA regulations
- ◆ Made in Saudi Arabia



EVOLUTION LINE

Designed by experts and made of top-quality raw materials, these all-round cutting discs combine outstanding service life with high cutting speed.

- ◆ Manufactured according to EN 12413
- ◆ Complies to OSA regulations
- ◆ Made in Saudi Arabia

DIMOND BLADES



Technical Specification

Blockmesh, the ideal reinforcement for masonry block or clay brick walls, is manufactured from cold Drawn steel wire (plain or deformed) which conforms to Saudi, British, American standard specifications.

The wires are Cold Drawn to comply with the strength requirements to BS4482 and ASTM A82, A496. It may also be manufactured from Per-Galvanised wire to BS443 and ASTM A641 if required.

Strength

A brick or masonry block wall, reinforced with Blockmesh will withstand considerable horizontal pressure from either side.

The use of block mesh reinforcement in walls will help to :

- Combat wind effects
- Withstand the loading of material against the wall
- Control shrinkage, thermal and settlement effects
- Enable the wall to span across openings

Blockmesh, manufactured to customer specifications, enables its strength to be used with maximum efficiency, locating the wires for minimum specified cover from the face of the wall, and therefore concentrating the reinforcement where it is needed most.

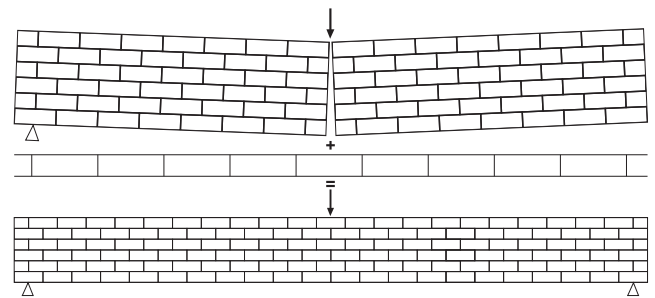
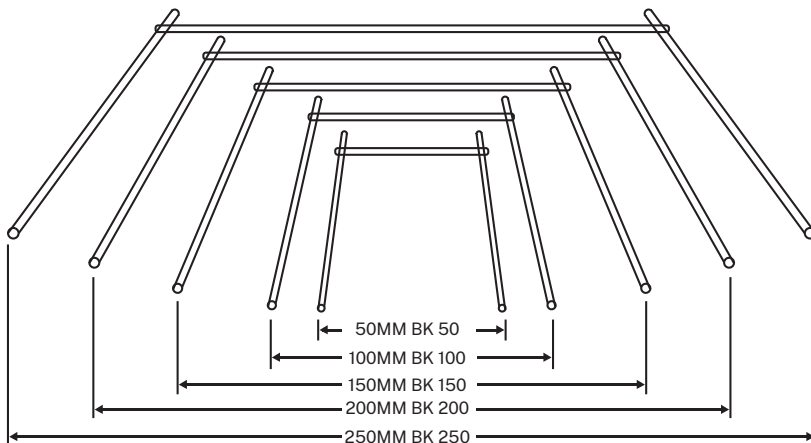
Application

It is often more economical to reinforce a wall with Blockmesh to resist horizontal pressure, than to provide alternative structural solutions.

The wires used Blockmesh can be spaced at different centres to suit the different thicknesses of brick or block walls. The reinforcement is therefore used to maximum advantage.

Standard Sizes	
50	50x400x3.80 MM
100	100x400x3.80 MM
150	150x400x3.80 MM
200	200x400x3.80 MM
250	250x400x3.80 MM

Nominal Wall Thickness (Block Width)	Recommended Width Blockmesh
90 mm	50 mm
100 mm	50 mm
120 mm	75 mm
140 mm	100 mm
150 mm	100 mm
190 mm	150 mm
200 mm	150 mm
250 mm	200 mm



Description :

Sabaq Block Reinforcement (ladder & truss types) are used for reinforcement of brick and masonry to give improved tensile strength to walls subjected to lateral loading. They can also be beneficial in reducing the effects of vibration and differential movement.

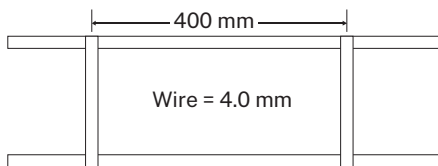
Specifications:

Sabaq Block Reinforcement (ladder & truss types) are manufactured by resistance welding of rods at predetermined centers conforming to BS 4483.

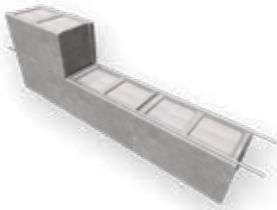
Hot-dip galvanization is done after manufacture to BS729: ASTM A123, DIN 50 976

When stainless steel is used, it is in accordance with BS 1554 1990, AISI 304, material no. 1.4301

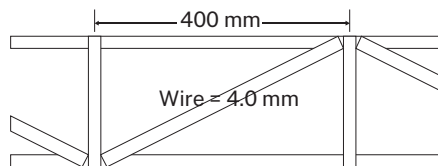
Ladder Type



Width	Length
50 mm	300 cm
100 mm	300 cm
150 mm	300 cm
200 mm	300 cm



Truss Type



Width	Length
50 mm	300 cm
100 mm	300 cm
150 mm	300 cm
200 mm	300 cm



BLOCK ACCESSORIES

Brick Facing & Cavity Ties

Description :

A general range of ties is offered suitable for use in the construction of cavity walls and block facing

Specifications:

Sabaq Block Accessories are manufactured in accordance with BS 123 : 1978. these are available in stainless steel, pre galvanized or hot dip galvanized steel. Sabaq Block Accessories are made from : (Refer to Sabaq Beads).



Length 150,200,250mm (4.0mm dia)

Processed At The Only Soft Board Mill In Asia

Bitulex is processed by Board Ltd, pioneers of soft board manufacture in Asia. Barring Japan, this is the only soft board plant in the continent that is processing and exporting quality bitumen impregnated expansion joint fillers for the past 35 years.

- ◆ Bituflex is processed from cane fibre, the raw material tested and proven to provide the best resilience, and impregnated with Bitumen in various percentages.
- ◆ Available in a wide range of thicknesses and sizes.
- ◆ The board's compression and recovery characteristics conform to the U.K., U.S.A. & Indian standards much above the required average.

Applications:

- ◆ Filler strip for all expansion joints in all concrete traffic surfaces like highways, airport, runways and streets.
- ◆ Expansion joint material in driveways, aprons, pavement, curbs, gutters and other concrete paving work.
- ◆ Expansion joint filler in reinforced concrete structures like piers, retaining walls, and lateral supports like abutments.
- ◆ Expansion strips against existing or between adjacent constructions and insets in concrete paving like drains, manholes, etc.
- ◆ Industrial Flooring.
- ◆ Various other internal finishes, flat works and concrete floors according to the state of art and local regulations.



Physical Properties:

Jolly Bitulex conforms to the following required standards

- ASTM-D. 1751 -83/D.545-84 Testing
"concrete paving and structural construction" "preformed expansion joint filler for concrete"
Department of transport - london 1986: "specification to highway works, part 3, clause 1015"
- B.S. 1142 for Standard specifications for Expansion joint filler.
- IS 1838 (part-1) 1983 Standard Test of Expansion joint Fillers.

STRONG POINTS AND PERFORMANCE CHARACTERISTICS:

TEST RESULTS:

Compression to 50% thickness in the initial state: - Recovery is 80/84% Jolly Bitulex is processed with felted fibres forming minute air spaces thus the material is uni- formly compressible under load.

Weathering and Compression to 50% thickness:

Recovery is 70/76%. Jolly Bituflex returns to more than 70% of its original thickness after three applications of pressure sufficient to reduce its thickness by 50%. this is the all important property of re-expansion.

Extrusion : No effect (0.75 mm) Because of the many tiny air spaces, Jolly Bituflex can be reduced in thickness without an increase in length or width. the filler can be compressed with virtually on extrusion above the slab surface.

Unaffected by Temperature Changes: Jolly Bituflex expansion joint filler, holds it shape indefinitely without appreciable dimension change due to temperature extremes. It will not get soft by hot weather nor will it get brittle at lower temperatures.

Low Moisture Absorption due to bitumen impregnation.





Applications:

- Used as a filler for decoration purposes.
- Used as an expansion joint and filler for precast, steel and concrete projects.

Dimension	Standard Package / Bags
6	800 m/Bag (8pcs x 100 m)
8	800 m/Bag (8pcs x 100 m)
10	800 m/Bag (8pcs x 100 m)
12	800 m/Bag (8pcs x 100 m)
15	360 m/Bag (6pcs x 60 m)
20	200 m/Bag (4pcs x 50 m)
25	100 m/Bag (4pcs x 25 m)
30	100 m/Bag (4pcs x 25 m)
40	100 m/Bag (4pcs x 25 m)
50	100 m/Bag (4pcs x 25 m)
60	100 m/Bag (4pcs x 25 m)

PROPERTIES	UNIT	VALUE	TEST METHOD
DENSITY	g/cm	0.04	ASTM D-792
CELL SIZE	mm	0.82	ASTM D-3576
WATER ABSORPTION	mg/cm	0.08	ASTM D-570
MOISTURE PERMEABILITY	g/cm-24hr	0.5	ASTM D-570
ELONGATION AT BREAK	%	60	ASTM D638
THERMAL CONDUCTIVITY	W/m °C	0.0406	ASTM D-5930
PERMANENT COMPRESSION SET 100 KG/CM	%	1-2	ARNON METHOD

The recommendation in this bulletin is made without guarantee since the conditions of use are beyond our control.

DURABILITY AND EASY HANDLING : Despite its low density Jolly Bitulex is tough and maintains its thickness and surface face finish under loading and stacking. It is water resistant and protected against dry rot and termite attack allowing it to withstand severe environmental conditions for over three decades.

EXCELLENT CONCRETE BONDING: The rough textured surfaces of Jolly Bitulex provides a good bond between it and poured concrete.

Technical Test Report of Jolly Bitulex at Victoria Jubilee Technical Institute, Bombay on the Test of Expansion Joint Filler (12 mm thickness)

Testing as per IS:1838 (Part-1) 1983 and ASTM D- 17511983 method			
Tests	Results	Limits	
IS:1838: ASTM:D1751			
Dimension Thickness (mm)	13.27	Tolerance ± 1.5	Tolerance ± 1.6
Resistance to handling	Good Sample does not get deformed or broken	-----	-----
Recovery (%)	86	Min. 70	Min. 70
Compression (kg/cm2)	34.4	7	35
Loss in Bitumen (%)	0.1	Max. 3	Max. 3
Extrusion (mm)	1.0	Max 6.5	Max 6.5
Water absorption (%)	10.6	Max 20	Max 15
Density (kg/m3)	500	Min 300	Min 304
Bitumen content	43.5	Min. 35	Min. 35.5
Penetration of recovered bitumen	90 - 92	25 - 100	-----

WEATHERING TEST

Weathering test: The sample does not show any sign of disintegration when tested for 5 cycles.

Result : Passes

Compression test: On sample subjected to weathering test: Compression kg cm² = 27 52 (Limit 7-53 kg cm²)

Recovery test: On sample subjected to weathering test: Recovery (%) 87 22 (Limit min. 70%)

SIZES:

Standard sheet sizes: 7x4ft 2130 x 1220 mm
8x4ft 2440 x 1220 mm

Other sizes available on requests

THICKNESS: 10 - 12 - 18 25 mm

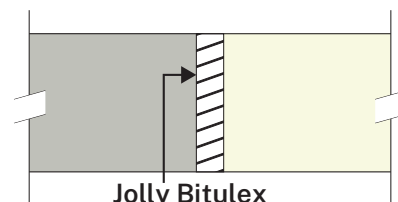
BITUMEN CONTENT: Standard 10-20-35% other possibilities upon request

QUALITY GUARANTEE: permanent checks by the mill lab.

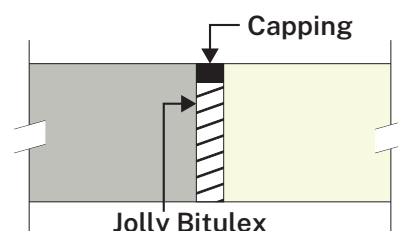
SUGGESTED EXPANSION JOINT SPACING IN ORDINARY CONCRETE CONSTRUCTION.

Joint Spacing (Approx.)			
6m9m	9m15m	15m21m	21m30m
Recommended Thickness Of Jolly Bitulox Expansion Joint Filler			
0.52mm	12.70mm	19.05mm	25.40mm

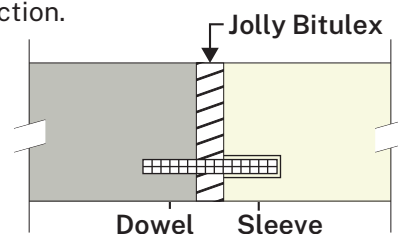
SUGGESTED APPLICATION DETAILS FOR TYPICAL JOINTS



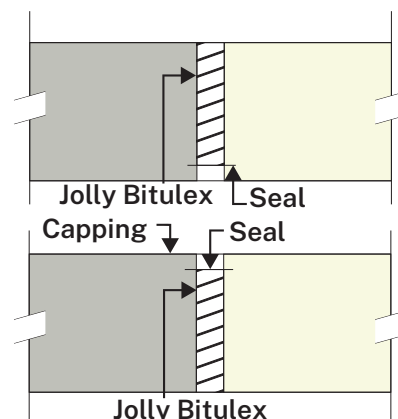
Ordinary type. Joint filler is brought flush with the surface and extends full depth of slab. This is the most common type of application



Joint using surface capping. Jolly Bitulex Concrete Joint Filler is placed approximately 3/4 of an inch below the surface of the slab. Suitable capping placed flush with concrete surface. Used extensively in highway construction.

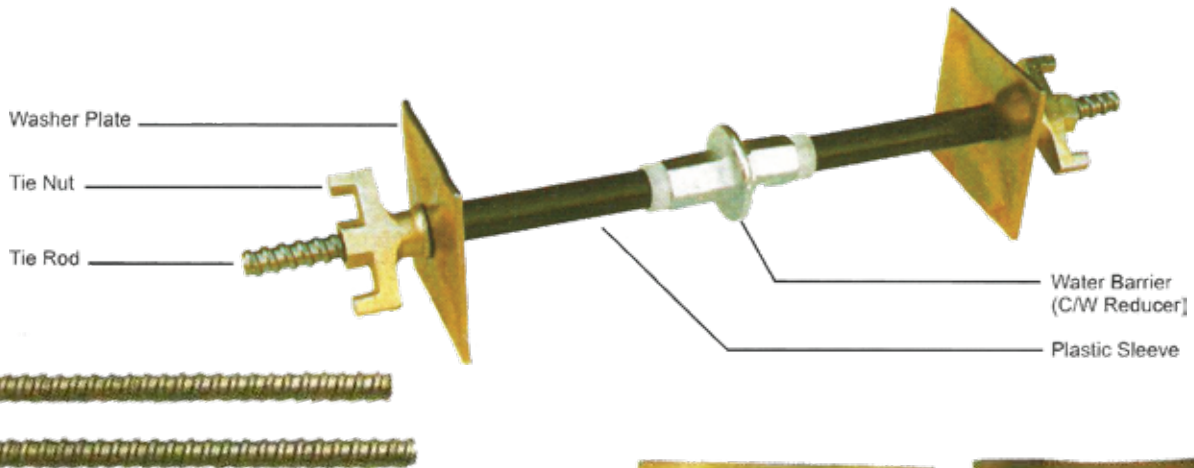


Dowel bar used to preserve alignment of adjacent sections of concrete slab, the joint filler is fabricated to receive dowel bars and the entire joint assembly is placed in position before pouring concrete.



Joint employing continuous seal either at top or bottom of slab to close joint against hydrostatic pressure.

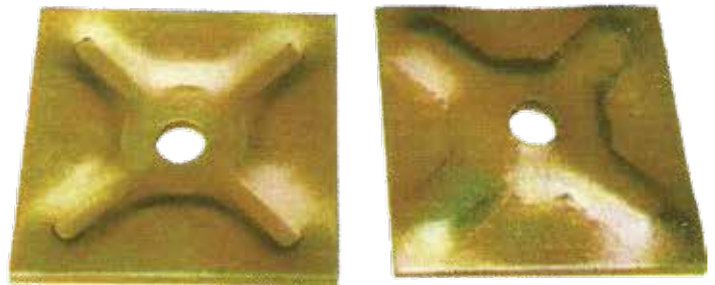
Plastic Sleeving acts as a spacer and allows the recovery of the Tie Rod by preventing contact with the concrete. Cones are fitted either end to allow the hole to be made good.



SC # 101

Tie Rod

Material	: EN 14A1 Series/20mm2
Type of Threading	: Square Thread R.H. 14.5
	: Stub Acme Thread
Weight per Meter	: 1.54 Kgs
Major Diameter	: 17.4 mm
Failing Load	: 191 kN
Recommended Max. Load (Recoverable Tie)	: 95 kN
Recommended Max. Load (Lost Tie)	: 127 kN
Pitch	: 10mm
Finish	: Glazed (Anti Rust Coating)



SC # 102

Washer Plate

Material	: Cold Rolled Tested Low Carbon Mild Steel Plate
Finish	: Cadmium Plated
Sizes Available	: 120mm x 120mm x 5-10mm



SC # 103

Tie Nuts / Wing Nuts (Light, Medium, Heavy Duty)

Material	: Malleable Cast Iron as per ISO 1461 (BS 6681) Grade B-3512
Weight Toleranc	: $\pm 2\%$
Dimensional Tolerance	: $\pm 2\%$
Concentricity Tolerance	: $\pm 2\%$ at the Root
Ultimate Tensile Strength of the Base Metal	: 35 Kgs/mm ²
Elongation	: 12%
Type of Threading	: R.H. 14.5' Stub Acme Thread
Pitch	: 10mm
Failing Load	: 141 kN, 180 kN, 210 kN for Light, Medium, Heavy Duty etc.
Weight per 100 Pcs	: 30 Kgs, 32 Kgs, 45 Kgs for Light, Medium, Heavy Duty etc.
Finish	: Zinc Plated



SC # 104

Water Barrier

Material	: Malleable Cast Iron as per ISO 1461 (BS 6681) Grade B-3512
Dimensional Tolerance	: $\pm 2\%$
Concentricity Tolerance	: $\pm 2\%$ at the Root
Ultimate Tensile Strength of the Base Metal	: 35 Kgs/mm ²
Elongation	: 12%
Type of Threading	: R.H. 14.5' Stub Acme Thread
Pitch	: 10mm
Failing Load	: 190 kN
Weight per 100 Pcs	: 55 Kgs for Light, Medium, Heavy Duty etc.
Finish	: Self Colour / Zinc Plated



Junior Step Ladder - JSL

Ref.No	Size	Slide Length	Weight
JSL/2	2ft	0.60m	3kg
JSL/3	3ft	0.90m	3.6kg



Domestic Step Ladder

Ref.No	Size	Slide Length	Weight
DSL/4	4ft	1.2m	4.1kg
DSL/5	5ft	1.5m	5kg
DSL/6	6ft	1.8m	5.9kg
DSL/7	7ft	2.1m	6.8kg
DSL/8	8ft	2.4m	7.7kg
DSL/10	10ft	3m	9.5kg



Dual Purpose / Extension Step Ladder

Ref.No	Size	Slide Length	Weight
DP/5	5 to 9ft	1.5m to 2.7m	5.7kg
DP/6	6 to 11ft	1.8m to 3.3m	6.8kg
DP/7	7 to 13ft	2.1m to 3.6m	8.2kg
DP/8	8 to 15ft	2.4m to 4.5m	9.1kg
DP/9	9 to 17ft	2.7m to 5.10m	10.2kg
DP/10	10 to 19ft	3m to 5.7m	11.4kg
DP/12	12ft	3.6m	13.7kg
DP/14	14ft	4.2m	16kg
DP/17	17ft	5.2m	19kg



Single Straight Ladder

Ref.No	Size	Slide Length	Weight
CS/9	8ft	2.4m	7.2kg
CS/11	10ft	3m	9kg
CS/14	12ft	3.6m	10kg
CS/16	14ft	4.2m	11.4kg
CS/18	16ft	4.8m	12.7kg
CS/23	20ft	6m	15.9kg



Double Extension Ladder

Ref.No	Size	Slide Length	Weight
CD/9	8 to 14ft	2.4m to 4.2m	12.7kg
CD/11	10 to 18ft	3m to 5.4m	14.5kg
CD/14	12 to 22ft	3.6m to 6.6m	17kg
CD/16	14 to 26ft	4.2m to 7.8m	19.1kg
CD/18	16 to 30ft	4.8m to 9m	25.5kg
CD/23	20 to 38ft	6m to 11.4m	31.8kg



Light Ladder

Ref.No	Size	Slide Length	Weight
LSL/4	4ft	0.8m	3.3kg
LSL/5	5ft	1.1m	4.4kg
LSL/6	6ft	1.3m	5kg
LSL/7	7ft	1.5m	5.5kg
LSL/8	8ft	1.8m	6.1kg

Specifications

Material	: Aluminium
Size	
Width	: 32"
Length	: 87"
Height	: 120"





Uniform



Fire Rated Coverall



Safety Shoes



Coverall



Safety Vest



Disposable Coverall



Safety Cones



Safety Flag



Safety Gloves



Safety Road Barrier



Safety Glass



Safety Poles



Face Shield



Safety Helmet



Safety Belt



Ear Plug



Fire Blanket



Rain Coat



Water Cooler 10 gallon



Water Cooler 5 gallon



Safety Harness
Double Lanyard



Face Mask

Standard Hessian Fabric

Product Constituents	: Jute is a vegetable fibre. Yarn spun from this fibre has up to 6% oil added to assist spinning. The oil may be a vegetable or refined mineral type. The fabric is 100% jute.
Appearance	: Woven Fabric
Hazard Category	: Flammable but non-toxic Could possibly give rise to sensitivity on skin after prolonged contact.
Exposure Limit	: Not known
Personal Protection	: Not normally required but light plastic gloves are suggested for sensitive persons
Special Handling Instructions	: None required
Emergency / Medical Contact	: In all cases seek medical advice
Storage Conditions	: Keep dry
Fire Fighting	: Apply water
Disposal	: Since this is a vegetable product it will decompose



ULYSSE 75 x 180

Aluminium

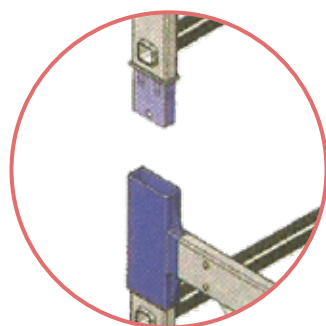
UNI HD 1004 - CLASS "3"

Tower Dimension : 0.75 m x 1.80 m

204 Kg

Total Load
Permitted

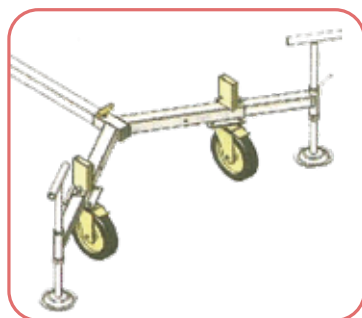
H Max		Work Platform
UNI HD 1004		D.P.R. N° 164
Inside	7.50 m	9.20
Outside	7.50 m	



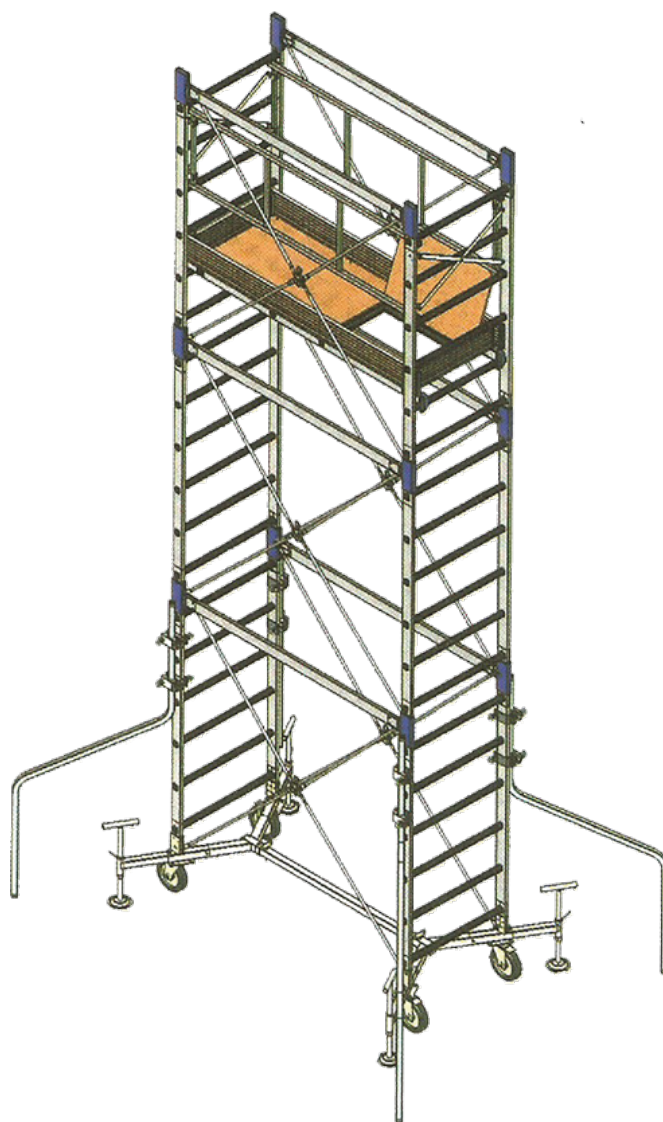
Connecting
Batten - Frame



Exploded Tower



Extractable Base



ULYSSE 75 x 180

CONFIGURATION	COD.	20488	20489	20490	20491	20492	20493
Max. Scaffolding height	m	2.05	3.70	5.40	7.10	8.80	10.45
Max Height of work surface	m	0.80	2.45	4.15	5.80	7.50	9.20
Tower lift (H = 1.50 m)	n	1	2	3	4	5	6

UNI HD 1004

Use without anchoring

Use with
anchoring

Work Platform	n	1	1	1	2	2	1
Guard Rail	n	1	1	1	2	2	1
Stabilizer	n	0	0	4	4	4	4

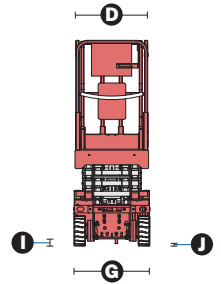
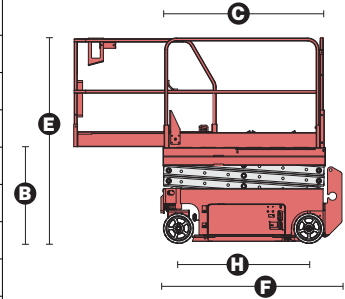


SPECIFICATIONS

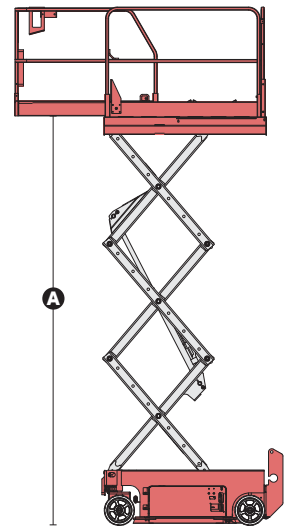
GS™-1530

GS™-1930

MODELS	GS™-1530		GS™-1930	
MEASUREMENTS	US	METRIC	US	METRIC
Working height maximum*	21 ft	6.57 m	21 ft	7.79 m
A Platform height maximum	15 ft	4.57 m	15 ft	5.79 m
B Platform height stowed	3 ft 2.2 in	0.97 m	3 ft 2.2 in	1.00 m
C Platform length outside	5 ft 4 in	1.63 m	5 ft 4 in	1.63 m
	extended	8 ft 4 in	2.54 m	2.54 m
Slide-out platform extension deck	3 ft	0.91 m	3 ft	0.91 m
D Platform width - outside	2 ft 5 in	0.74 m	2 ft 5 in	0.74 m
Guardrail height: fixed rails	3 ft 3 in	0.99 m	3 ft 3 in	0.99 m
	fold down (CE)	3 ft 7 in	1.10 m	1.10 m
Toeboard height	6 in	0.15 m	6 in	0.15 m
E Height-stowed: fixed rails	6 ft 5 in	1.96 m	6 ft 5 in	2.00 m
	folding guardrails (CE)	6 ft 8 in	2.03 m	2.11 m
	rails folded	5 ft 8 in	1.73 m	1.75 m
F Length-stowed	6 ft	1.83 m	6 ft	1.83 m
Length-stowed extended	9 ft	2.74 m	9 ft	2.74 m
G Width	2 ft 6 in	0.76 m	2 ft 6 in	0.76 m
H Wheelbase	4 ft 4 in	1.32 m	4 ft 4 in	1.32 m
I Ground clearance - center	2.4 in	0.06 m	2.4 in	0.06 m
	- with pothole guards deployed	0.75 in	0.02 m	0.02 m



PRODUCTIVITY				
Maximum platform occupancy**	2	2	2	2
Lift capacity 600 lbs	272 kg	500 lbs	227 kg	
Lift capacity - extension deck	250 lbs	113 kg	250 lbs	113 kg
Drive speed - stowed 2.5 mph	4.0 km/h	2.5 mph	4.0 km/h	
Drive speed - raised 0.5 mph	0.8 km/h	0.5 mph	0.8 km/h	
Gradeability - stowed***	30%	25%		
Turning radius - inside	zero	zero	zero	
Turning radius - outside	5 ft 1 in	1.55 m	5 ft 1 in	1.55 m
Raise / lower speed 16 / 29 sec	16 / 29 sec	16 / 25 sec	16 / 25 sec	
Controls proportional	proportional			
Drive dual front wheel	dual front wheel			
Multiple disc brakes dual rear wheel	dual rear wheel			
Tires - solid non-marking	12 x 4.5 x 8 in	30 x 11 x 20 cm	12 x 4.5 x 8 in	30 x 11 x 20 cm



POWER				
Power source	24 V DC (four 6 V 225 Ah batteries)		24 V DC (four 6 V 225 Ah batteries)	
Hydraulic system capacity	3.75 gal	14.2 L	3.75 gal	14.2 L

WEIGHT****				
ANSI, CSA	2,575 lbs	1,168 kg	2,702 lbs	1,226 kg
CE indoor	2,718 lbs	1,233 kg	3,302 lbs	1,498 kg
AUS indoor	—	—	3,302 lbs	1,498 kg

STANDARDS COMPLIANCE	ANSI A92.6, CSA B354.2, CE Compliance, AS 1418.10
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* The metric equivalent of working height adds 2 m to platform height. U.S. adds 6 ft to platform height.

** CE/AUS markets: GS-1530 and GS-1930 are indoor use only—2 person maximum occupancy.

GS-1532 and GS-1932 are indoor/outdoor use—1 person maximum.

*** Gradeability applies to driving on slopes, see operator's manual for details regarding slope ratings.

**** Weight will vary depending on options and/or country standards.

Features

STANDARD FEATURES

MEASUREMENTS

GS™-1530

- 21 ft (6.57 m) working height
- Up to 600 lb (272 kg) lift capacity

GS™-1930

- 25 ft (7.79 m) working height
- Up to 500 lb (227 kg) lift capacity

PRODUCTIVITY

- 64 x 29 in (1.63 x .74 m) steel platform
- Fixed rail with chain entry gate
- Folding rails with half-height swing gate (CE)
- 36 in (.91 m) extension deck
- Dual front wheel drive
- Proportional lift and drive
- Universal 20 amp smart charger
- Rear recessed charger receptacle
- 25% gradeability
- Platform control with battery charge indicator and diagnostic display
- On-board diagnostic system
- AC power to platform
- Lanyard attachment points
- Manual platform lowering valve
- Emergency stop at both platform and ground controls
- Rear wheel multiple disc brakes
- Front wheel hydraulic dynamic braking
- Brake release
- Swing-out component trays
- Solid non-marking tires
- Pothole guards
- Tilt level sensor with audible alarm
- Descent alarm
- Electronic horn
- Hour meter

POWER

- 24 V DC (four 6 V 225 Ah batteries)

OPTIONS & ACCESSORIES

PRODUCTIVITY OPTIONS

- Folding rails with half-height swing gate
- Platform swing gate, half-height
- Air line to platform
- Dual flashing beacons
- Motion package
- Automotive horn
- Biodegradable hydraulic fluid

POWER OPTIONS

- Power inverter (120 V/60 Hz)
(not available GS™-1930, GS™-1932 CE)
- EE rating



MODELS	AWP™-20S		AWP™-25S		AWP™-30S	
MEASUREMENTS	US	METRIC	US	METRIC	US	METRIC
Working Height*	26 ft 1 in	8.12 m	30 ft 10 in	9.57 m	35 ft 6 in	11.00 m
Platform Height	20 ft 1 in	6.12 m	24 ft 10 in	7.57 m	29 ft 6 in	9.00 m
A Height - Stowed (Standard, Narrow)	6 ft 6 in	1.98 m	6 ft 6 in	1.98 m	6 ft 6 in	1.98 m
	Stowed (RT)	6 ft 7 in	2.01 m	6 ft 7 in	2.01 m	201 m
B Tilted back** (Standard)	5 ft 10 in	1.78 m	6 ft 0.3 in	1.84 m	6 ft 2.5 in	1.89 m
C Length - Stowed (Standard)	4 ft 1 in	1.24 m	4 ft 3.5 in	1.31 m	4 ft 5 in	1.35 m
	Stowed (Narrow)	4 ft 2 in	4 ft 4 in	1.32 m	4 ft 7 in	1.40 m
	Stowed (RT)	5 ft 3 in	5 ft 3 in	1.60 m	5 ft 3 in	1.60 m
D Length - Tilted back**	6 ft 11 in	2.11 m	6 ft 11 in	2.11 m	6 ft 11 in	211 m
E Width (Standard)	2 ft 5 in	.74 m	2 ft 5 in	.74 m	2 ft 5 in	.74 m
	Width (Narrow)	1 ft 10 in	1 ft 10 in	.56 m	1 ft 10 in	.56 m
	Width (RT)	2 ft 6 in	2 ft 6 in	.76 m	2 ft 6 in	.76 m

PRODUCTIVITY	US	METRIC	US	METRIC	US	METRIC
Lift Capacity	350 lbs	159 kg	350 lbs	159 kg	350 lbs	159 kg
ANSI/CSA:						
Outrigger footprint (l/w) (Standard)	5 ft 1 in/4 ft 5 in	1.55/1.35 m	5 ft 1 in/4 ft 5 in	1.55/1.35 m	5 ft 9 in/5 ft 1 in	1.75/1.55 m
F G Outrigger footprint (l/w) (Narrow/RT)	5 ft 4 in/4 ft 2 in	1.63/1.27 m	5 ft 4 in/4 ft 2 in	1.63/1.27 m	6 ft/5 ft	1.83/1.52 m
Corner access*** (Standard)	1 ft 3 in	.38 m	1 ft 2 in	.36 m	1 ft 7 in	.48 m
H Corner access*** (Narrow/RT)	1 ft 2 in	.36 m	1 ft 1 in	.33 m	1 ft 7 in	.48 m
Wall access front/side (Standard)	6 in/1 ft 1 in	.15/.33 m	3 in/1 ft 1 in	.08/.33 m	5 in/1 ft 5 in	.13/.43 m
I J Wall access front/side (Narrow/RT)	9 in/1 ft	.23/.30 m	6 in/1 ft	.15/.30 m	7 in/1 ft 5 in	.18/.43 m
CE/AUS/PB Indoor:						
Outrigger footprint (l/w) (Standard)	5ft 1in / 4ft 5 in	1.55/1.35 m	5ft 9in / 5ft 1in	1.75/1.55 m	6 ft 4 in/5 ft 8 in	1.93/1.73 m
F G Outrigger footprint (l/w) (Narrow/RT)	5ft 11in/4ft 10in	1.80/1.47 m	5ft 11in / 4ft 10in	1.80/1.47 m	6 ft 11 in/6 ft 2 in	2.11/1.88 m
Corner access*** (Standard)	1 ft 3 in	.38 m	1 ft 7 in	.48 m	1 ft 10 in	.56 m
H Corner access*** (Narrow/RT)	1 ft 9 in	.53 m	1 ft 8 in	.51 m	2 ft 3.5 in	.70 m
Wall access front/side (Standard)	6 in/1 ft 1 in	.15/.33 m	7 in/1 ft 5 in	.18/.43 m	8 in/1 ft 9 in	.20/.53 m
I J Wall access front/side (Narrow/RT)	1 ft/1 ft 5 in	.30/.43 m	10 in/1 ft 5 in	.25/.43 m	9 in/1 ft 8 in	.23/.51 m
CE/AUS/PB Outdoor:						
Outrigger footprint (l/w) (Standard)	8 ft 1 in/7 ft 5 in	2.46/2.26 m	9 ft 9 in/9 ft 2 in	2.97/2.79 m	9 ft 9 in/9 ft 2 in	2.97/2.79 m
F G Outrigger footprint (l/w) (Narrow/RT)	9 ft 4 in/9 ft 4 in	2.84/2.84 m	9 ft 4 in/9 ft 4 in	2.84/2.84 m	10ft 10in/11ft 4in	3.30/3.45 m
Corner access*** (Standard)	1 ft 7 in	0.48 m	2 ft 6 in	0.76 m	2 ft 3 in	0.69 m
H Corner access*** (Narrow/RT)	4 ft 6 in	1.37 m	4 ft 4 in	1.32 m	5 ft 1 in	1.55 m
Wall access front/side (Standard)	1 ft 7 in/2 ft 8 in	0.48/.81 m	2 ft 5 in/3 ft 6 in	0.74/1.07 m	2 ft 3 in/3 ft 6 in	0.69/1.07 m
I J Wall access front/side (Narrow/RT)	2 ft 8 in/3 ft 8 in	0.81/1.12m	2 ft 5 in/3 ft 8 in	0.74/1.12 m	2 ft 11 in/4 ft 7 in	0.89/1.40 m
Platform Dimensions: (l/w/h)						
Standard	27/26/44.75 in	.69/.66/1.14 m	27/26/44.75 in	.69/.66/1.14 m	27/26/44.75 in	.69/.66/1.14 m
Gated standard	27/26/44.75 in	.69/.66/1.14 m	27/26/44.75 in	.69/.66/1.14 m	27/26/44.75 in	.69/.66/1.14 m
Gated ultra narrow	22/18/44.75 in	.56/.46/1.14 m	22/18/44.75 in	.56/.46/1.14 m	22/18/44.75 in	.56/.46/1.14 m
Gated narrow	26/20/44.75 in	.66/.51/1.14 m	26/20/44.75 in	.66/.51/1.14 m	26/20/44.75 in	.66/.51/1.14 m
Standard fiberglass	29/26.5/43.5 in	.74/.67/1.10 m	29/26.5/43.5 in	.74/.67/1.10 m	29/26.5/43.5 in	.74/.67/1.10 m
Narrow fiberglass	26/22/43.5 in	.66/.56/1.10 m	26/22/43.5 in	.66/.56/1.10 m	26/22/43.5 in	.66/.56/1.10 m

POWER

Power source - AC or DC models

12V DC / 110/50-60 Hz or 220/50-60 Hz AC

WEIGHT****

AC models (Standard)	677 lbs	307 kg	727 lbs	330 kg	777 lbs	352 kg
AC models (Narrow/RT)	660 lbs	299 kg	694 lbs	315 kg	729 lbs	331 kg
DC models (Standard)	766 lbs	347 kg	817 lbs	371 kg	867 lbs	393 kg
DC models (Narrow/RT)	749 lbs	340 kg	780 lbs	354 kg	818 lbs	371 kg
Air motor (Standard)	---	---	---	---	777 lbs	352 kg
Air motor (Narrow/RT)	---	---	---	---	729 lbs	331 kg

STANDARDS COMPLIANCE

ANSI A92.3, CSA B354.1, CE Compliance, AS 1418.10

MODELS	AWP™-20S		AWP™-25S	
MEASUREMENTS	US	METRIC	US	METRIC
Working Height*	26 ft 1 in	8.12 m	30 ft 10 in	9.57 m
Platform Height	20 ft 1 in	6.12 m	24 ft 10 in	7.57 m
A Height - Stowed (Standard, Narrow)	6 ft 6 in	1.98 m	6 ft 6 in	1.98 m
	Stowed (RT)	6 ft 7 in	6 ft 7 in	2.01 m
B Tilted back** (Standard)	5 ft 10 in	1.78 m	6 ft 0.3 in	1.84 m
C Length - Stowed (Standard)	4 ft 1 in	1.24 m	4 ft 3.5 in	1.31 m
	Stowed (Narrow)	4 ft 2 in	4 ft 4 in	1.32 m
	Stowed (RT)	5 ft 3 in	5 ft 3 in	1.60 m
D Length - Tilted back**	6 ft 11 in	2.11 m	6 ft 11 in	2.11 m
E Width (Standard)	2 ft 5 in	.74 m	2 ft 5 in	.74 m
	Width (Narrow)	1 ft 10 in	1 ft 10 in	.56 m
	Width (RT)	2 ft 6 in	2 ft 6 in	.76 m

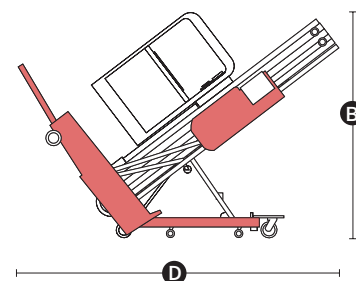
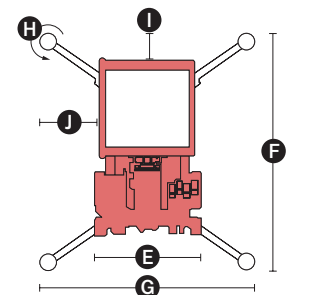
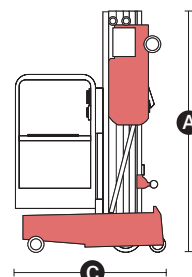
PRODUCTIVITY	US	METRIC	US	METRIC
Lift Capacity	350 lbs	159 kg	300 lbs	136 kg
ANSI/CSA:				
Outrigger footprint (l/w) (Standard)	6 ft 11 in/6 ft 3 in	2.1/1.9 m	7 ft 5 in/6 ft 9 in	2.26/2.06 m
F G Outrigger footprint (l/w) (Narrow/RT)	----	----	----	----
Corner access*** (Standard)	2 ft 5 in	.74 m	2 ft 7 in	.79 m
H Corner access*** (Narrow/RT)	----	----	----	----
Wall access front/side (Standard)	1 ft 2 in/2 ft 1 in	.36/.64 m	1 ft 3 in/2 ft 4 in	.38/.71 m
I J Wall access front/side (Narrow/RT)	----	----	----	----
CE/AUS/PB Indoor:				
Outrigger footprint (l/w) (Standard)	6 ft 11 in/6 ft 3 in	2.12/1.91 m	7 ft 5 in/6 ft 9 in	2.26/2.06 m
F G Outrigger footprint (l/w) (Narrow/RT)	----	----	----	----
Corner access*** (Standard)	2 ft 5 in	.74 m	2 ft 7 in	.79 m
H Corner access*** (Narrow/RT)	----	----	----	----
Wall access front/side (Standard)	1 ft 2 in/2 ft 1 in	.36/.64 m	1 ft 3 in/2 ft 4 in	.38/.71 m
I J Wall access front/side (Narrow/RT)	----	----	----	----
CE/AUS/PB Outdoor:				
Outrigger footprint (l/w) (Standard)	11ft 7in/10ft 11in	3.53/3.33 m	12ft 9in/12ft 1in	3.89/3.68 m
F G Outrigger footprint (l/w) (Narrow/RT)	----	----	----	----
Corner access*** (Standard)	3 ft 4 in	1.02 m	3 ft 8 in	1.12 m
H Corner access*** (Narrow/RT)	----	----	----	----
Wall access front/side (Standard)	3 ft 4 in/4 ft 4 in	1.02/1.32 m	3 ft 8 in/5 ft	1.12/1.52 m
I J Wall access front/side (Narrow/RT)	----	----	----	----
Platform Dimensions: (l/w/h)				
Standard	27/26/44.75 in	.69/.66/1.14 m	27/26/44.75 in	.69/.66/1.14 m
Gated standard	27/26/44.75 in	.69/.66/1.14 m	27/26/44.75 in	.69/.66/1.14 m
Gated ultra narrow	22/18/44.75 in	.56/.46/1.14 m	22/18/44.75 in	.56/.46/1.14 m
Gated narrow	26/20/44.75 in	.66/.51/1.14 m	26/20/44.75 in	.66/.51/1.14 m
Standard fiberglass	29/26.5/43.5 in	.74/.67/1.10 m	29/26.5/43.5 in	.74/.67/1.10 m
Narrow fiberglass	26/22/43.5 in	.66/.56/1.10 m	26/22/43.5 in	.66/.56/1.10 m

POWER	
Power source - AC or DC models	12V DC / 110/50-60 Hz or 220/50-60 Hz AC

WEIGHT****				
AC models (Standard)	1,017 lbs	461 kg	1,040 lbs	472 kg
AC models (Narrow/RT)	----	----	----	----
DC models (Standard)	1,017 lbs	502 kg	1,130 lbs	513 kg
DC models (Narrow/RT)	----	----	----	----
Air motor (Standard)	----	----	----	----
Air motor (Narrow/RT)	----	----	----	----

STANDARDS COMPLIANCE	ANSI A92.3, CSA B354.1, CE Compliance, AS 1418.10
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SPECIFICATIONS



* The metric equivalent of working height adds 2 m to platform height. U.S. adds 6 ft to platform height.

** Tilt back height with standard platform. For tilt back height with other platforms, please contact your sales representative.

*** Corner of platform top rail to corner of wall with ability to rotate leveling jack handle.

FEATURES

Easily Configured To Meet Your Needs

PLATFORM OPTIONS

- Sliding mid-rail standard platform
- Gated standard platform
- Gated ultra narrow platform
- Gated narrow platform
- Standard fiberglass platform
- Narrow fiberglass platform

POWER OPTIONS

- AC power 85V / 50-60 Hz
- AC power 110V / 50-60 Hz
- AC power 220V / 50-60 Hz
- DC 12V with 110V / 230V / 50-60 Hz with worldwide automatic “smart” charging system
- Air motor power 1.5 hp (1.1 kW) (AWP-30 only)

BASE OPTIONS

- Standard base
- Narrow base (AWP-20, -25, -30 only)
- Rough terrain (RT) base (AWP-20, -25, -30 only)

STANDARD FEATURES

MEASUREMENTS

AWPTM-20S

- 26 ft 1 in (8.12 m) working height
- 20 ft 1 in (6.12 m) platform height
- 2 ft 5 in (.74 m) standard base width
- 1 ft 10 in (.56 m) narrow base width
- 2 ft 6 in (.76 m) RT base width
- Up to 350 lb (159 kg) lift capacity

AWPTM-25S

- 30 ft 10 in (9.57 m) working height
- 24 ft 10 in (7.57 m) platform height
- 2 ft 5 in (.74 m) standard base width
- 1 ft 10 in (.56 m) narrow base width
- 2 ft 6 in (.76 m) RT base width
- Up to 350 lb (159 kg) lift capacity

AWPTM-30S

- 35 ft 6 in (11.02 m) working height
- 29 ft 6 in (9.02 m) platform height
- 2 ft 5 in (.74 m) standard base width
- 1 ft 10 in (.56 m) narrow base width
- 2 ft 6 in (.76 m) RT base width
- Up to 350 lb (159 kg) lift capacity

AWPTM-36S

- 42 ft 5 in (13.10 m) working height
- 36 ft 5 in (11.10 m) platform height
- 2 ft 5 in (.74 m) standard base width
- Up to 350 lb (159 kg) lift capacity

AWPTM-40S

- 46 ft 4 in (14.29 m) working height
- 40 ft 4 in (12.29 m) platform height
- 2 ft 5 in (.74 m) standard base width
- Up to 300 lb (136 kg) lift capacity

PRODUCTIVITY

- Auxiliary platform lowering
- Most rigid mast in the industry
- Rocker base system for maneuverability
- Tilt back frame (standard on AWP-36, -40)
- Easily rolls through standard doorways
- AC power to platform
- Dual activated up/down switch
- Ground fault interrupt (ANSI / CSA only)
- Small outrigger footprints
- Outrigger storage sockets
- Easy loading in pickup trucks
- Tie down attachment points
- Overhead crane attachment point
- Wide forklift pockets
- Rear access forklift pocket
- LED lights confirm proper set-up

POWER

- AC power 85V / 50-60 Hz
- AC power 110V / 50-60 Hz
- AC power 220V / 50-60 Hz
- DC power 110V / 230V / 50-60 Hz with worldwide automatic “smart” charging system

OPTIONS & ACCESSORIES

PRODUCTIVITY

- Super-straddle
- Gated standard platform
- Gated ultra narrow platform
- Gated narrow platform
- Standard fiberglass platform
- Narrow fiberglass platform
- Narrow base conversion kit (AWP-20, -25, -30 RT only)
- RT conversion kit (AWP-20, -25, -30 Narrow only)
- Tilt-back frame (option on AWP-20, -25, -30 only)
- Operational warning light and descent alarm package
- Tool tray
- Fluorescent tube caddy
- Platform locating laser light

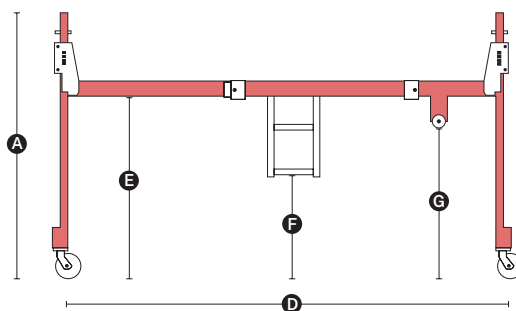
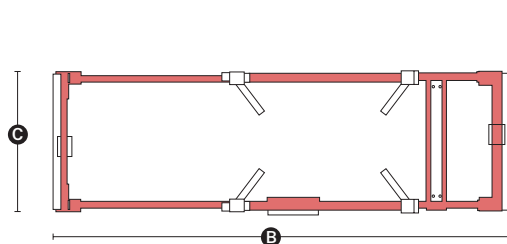
POWER

- Air motor power 1.5 hp (1.1 kW) (AWP-30 only)

SPECIFICATIONS

SUPER STRADDLE MODELS	AWP™-20S		AWP™-25S		AWP™-30S	
MEASUREMENTS	US	METRIC	US	METRIC	US	METRIC
A Height	5 ft 10 in	1.78 m	5 ft 10 in	1.78 m	5 ft 10 in	1.78 m
B Length (adjustable)	9ft 1in-10ft 8in	2.77-3.25m	9ft 1in-10ft 8in	2.77-3.25m	9ft 1in-10ft 8in	2.77-3.25m
C Width	3 ft 2 in	.97 m	3 ft 2 in	.97 m	3 ft 2 in	.97 m
Width with required outriggers ANSI, CSA CE,AUS	5 ft 9 in 5 ft 9 in	1.75 m 1.75 m	5 ft 9 in 6 ft 9 in	1.75 m 2.05 m	6 ft 9 in 7 ft 7 in	2.05 m 2.31 m
D Wheelbase (adjustable)	8ft 8in-10ft 8in	2.64-3.25m	8ft 8in-10ft 8in	2.64-3.25m	8ft 8in-10ft 8in	2.64-3.25m
E Straddle clearance	4 ft	1.22 m	4 ft	1.22 m	4 ft	1.22 m
F Height to ladder	2 ft 3 in	.69 m	2 ft 3 in	.69 m	2 ft 3 in	.69 m
G Height to fixed wheel	3 ft 4 in	1.02 m	3 ft 4 in	1.02 m	3 ft 4 in	1.02 m
Storage dimensions (l/w/d)	80/37/24 in	2.03/0.94/0.61 m	80/37/24 in	2.03/0.94/0.61 m	80/37/24 in	2.03/0.94/0.61 m
WEIGHT	580 lbs	263 kg	580 lbs	263 kg	580 lbs	263 kg

SUPER STRADDLE MODELS	AWP™-36S		AWP™-40S	
MEASUREMENTS	US	METRIC	US	METRIC
A Height	5 ft 10 in	1.78 m	5 ft 10 in	1.78 m
B Length (adjustable)	9ft 1in-10ft 8in	2.77-3.25m	9ft 1in-10ft 8in	2.77-3.25m
C Width	3 ft 2 in	.97 m	3 ft 2 in	.97 m
Width with required outriggers ANSI, CSA CE,AUS	8 ft 5 in 8 ft 5 in	2.57 m 2.57 m	9 ft 1 in 9 ft 1 in	2.77 m 2.77 m
D Wheelbase (adjustable)	8ft 8in-10ft 8in	2.64-3.25m	8ft 8in-10ft 8in	2.64-3.25m
E Straddle clearance	4 ft	1.22 m	4 ft	1.22 m
F Height to ladder	2 ft 3 in	.69 m	2 ft 3 in	.69 m
G Height to fixed wheel	3 ft 4 in	1.02 m	3 ft 4 in	1.02 m
Storage dimensions (l/w/d)	80/37/24 in	2.03/0.94/0.61 m	80/37/24 in	2.03/0.94/0.61 m
WEIGHT	580 lbs	263 kg	580 lbs	263 kg

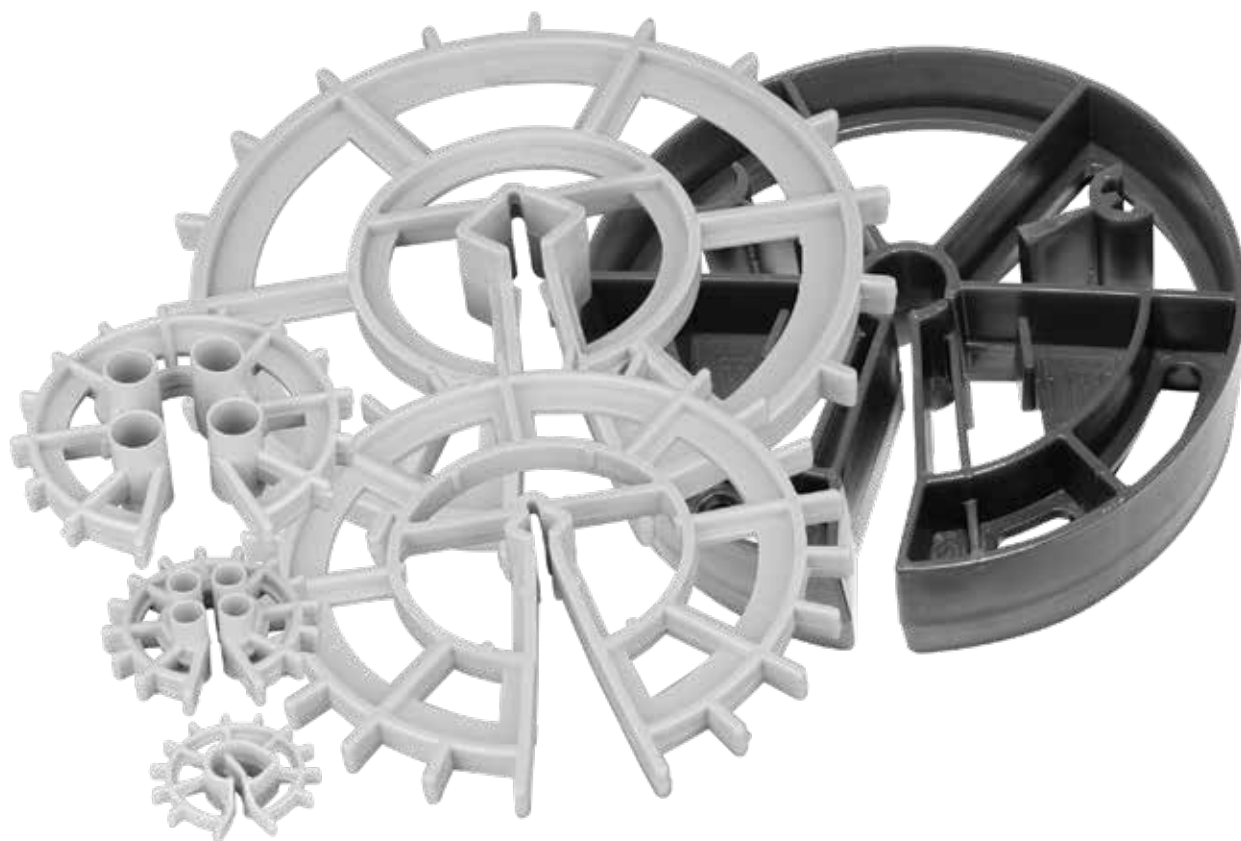


TEST CERTIFICATE

Commodity : Rebar Plastic Spacer (Clip Type)
 Size : 20MM, 25MM, 30MM, 40mm, 50mm, 60mm, 70mm & 75mm.
 Raw Material : Polyethylene HDPE B 5429 A

Physical Properties	Value	Unit	Test Method
Material Density	0.954	G/CM	ASTM D-1505
Stress Crack Resistance F50(100% 1 Gepal , 50c)	55	Hrs	ASTM D-1693 B
Tensile Strength @ Yield	27 (5920)	Mpa (Psi)	ASTM D638
Tensile Strength @ Break	32 (4640)	Mpa (Psi)	ASTM D638
Tensile Elongation @ Break	850	%	ASTM D638

We Hereby Certify that the material herein described has been manufactured in accordance with the standard and specifications specified and that it satisfying requirement.



Commodity	: P.V.C Chamfer
SIZE	: 10MM, 15MM, 20MM & 25MM
Chemical Composition	: Poly Vinyl Chloride 99%
	Vinyl Chloride Below Than 0.00001

Physical Data

Boiling Point	: Not Applicable
Melting Point	: About 220°C
Specific Gravity	: (H ₂ O = 1) :1.392
Solubility (in Water)	: Insoluble
Vapour Pressure (mmHg)	: Not Applicable
Vapour Density (Air =1)	: Not Applicable
B.D(g/cm ³) ASTM 1898-95	: 0.45-0.60
Volatile Material (%) ASTM 0303090	: Max. 0.3
DP. JIS 6721-77	: 950-1050
Remain Through Mesh 45, ASTM D1705-92	: Max. 0.1%
Passed Through Mesh 200, ASTM D1705-92	: Max. 6.0%

Physical Properties

Impact Strength (kg-cm/cm ²) ASTM D256-93	: Min. 4.0
Tensile Strength (kg/cm ²) ASTM D638-91	: Min. 500
Elongation (%) ASTM D638-91	: 250
PHR ASTM D3367-90	: 21
Fusion Time (Seconds) ASTM D2538-88	: 60
Min.Torque (mg) ASTM D2538-88	: 1720

We Hereby Certify that the material herein described has been manufactured in accordance with the standard and specification specified, and that it satisfied requirement.



ALP SERIES - SUPER MATERIAL LIFT

Standard Features

- ◆ Incorporates a silent ratchet system
- ◆ Transportation wheels
- ◆ Roller wheels with brake
- ◆ Standard forks
- ◆ Telescopic mast design
- ◆ Solid Steel base

Options Features

- ◆ Adjustable Forks
- ◆ Flat Forks
- ◆ Boom
- ◆ Pipe cross Forks
- ◆ Load Platform
- ◆ Anti-fall function

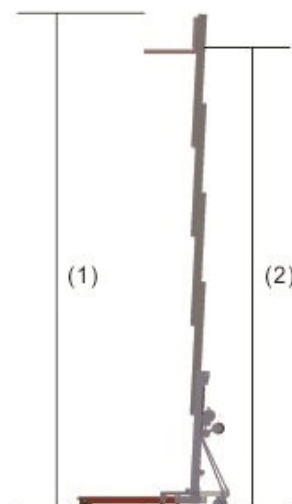
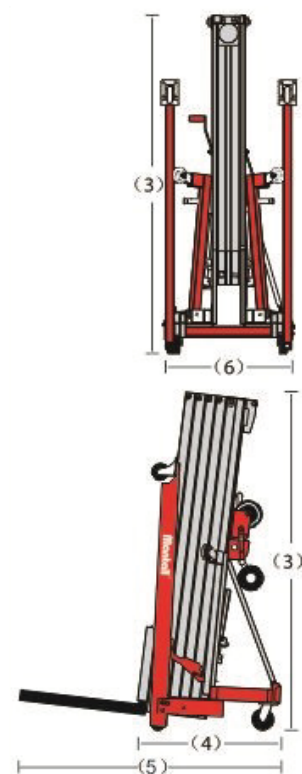


MODELS	ALP - 10	ALP - 15	ALP - 20	ALP - 25
MEASUREMENTS				
Working height				
(1)standard forks-up	3.48 m	5.00 m	6.45m	7.95m
(2)standard forks-down	2.96 m	4.48 m	5.93m	7.43m
Adjustable forks-up	3.48m	5.00 m	6.45m	7.95m
Adjustable forks-down	2.96m	4.48 m	5.93m	7.43m
Flat forks	2.96m	4.48 m	—	—
Boom***	3.28m	4.76 m	6.25m	7.42m
Load platform**-fork up	3.49m	4.98 m	6.46m	7.94m
Load platform**-fork down	2.97m	4.46 m	5.94m	7.42m
(3)Height-stowed	1.98m	1.98m	1.98m	1.98m
(4)Length-stowed	0.75m	0.75m	0.75m	0.83m
(5)Length-operating	2.2m	2.2m	2.2m	2.2m
(6)Width-stowed*	0.79m	0.79m	0.79m	0.79m
Stabilizers lowered	1.9m	1.9m	1.9m	1.9m
Width-straddle base				
Minimum	0.80m	0.80m	—	—
Maximum	1.47m	1.47m	—	—
Maximum inside	1.27mm	1.27m	—	—
(7)Ground clearance-center	0.05m	0.05m	0.05m	0.05m
Load height minimum	0.15m	0.15m	0.15m	0.15m
PRODUCTIVITY				
Load capacity				
46cm load center center	454kg	363kg	363kg	295kg
61cm load	454kg	363kg	272kg	204kg
1.07m load center	181kg	227kg	159kg	113kg
POWER				
Power	Single speed winch			
WEIGHT				
Standard	163kg	183kg	203kg	224kg

*Outside dimensions.

**For use with standard and adjustable forks only.

***Measured from ground to bottom of shackle.



Technical Data

Color	Transparent, clear
Film Thickness	025-500 microns
Film Length	According to request specifications.
Film Width	Up to 4 meters.
Melt Index	0.7 gm/10min (D-1238)
Puncture resistance	350 kg/Cm (ASTM E 1709 Class A)
Tensile Strength	36 - 30 kg/cm (ASTM D882) -30°C to 90° C
Ultimate Elongation Coefficient of Friction	630 % (ASTM D882)
Tear resistance	Medium level ASTM D-2103 Type 2
Density	1600 kg/cm ² (ASTM D-1922) 0.922 gm / cm (ASTM
Temperature Resistance	D-1505)
Dart Drop Impact	ASTM D-1709 A
Durability	Retains its physical properties and remains chemically resistance to aggressive soil organisms. Plant life and other sewage water and retains its flexibility in temperature over 80° C
Packing	Rolls wrapped with blue P.E. bag bearing manufacturers name and specs.



Heavy Duty Pile Cage Spacers

Drifix spacers for construction of reinforced foundation, such as insitu piling and diaphragm wall applications. Specifically designed to give cover to pile cage reinforcement steel. Drifix is threaded or clamped onto the helical steel and acts as a guide wheel when the reinforcement cage is lowered into the ground and also maintains the correct cover when the concrete is poured or pumped. Drifix are available with varying concrete covers according to current codes of practice.

Reference	Concrete Cover		For Steel Diameter	Bar Size	Packing Qty
Drifix 75/8-16 k	75 mm	3"	≤ 8-16 mm	≤ #3 - #6	100



Reference	Concrete Cover		For Steel Diameter	Bar Size	Packing Qty
Drifix 75	75 mm	3"	≤ 14 mm	≤ #5	100



Technical Advantages

- Easy to install on helical steel. Retains shape and is both light and sturdy.
- Closed versions can not flip over or fall off when the cage is lowered.
- No need for expensive and time consuming on-site manufacture concrete spacers.
- Conveniently Packed for easy shipping and storage.
- Drifix plastic spacers do not damage bore hole walls which are stabilized with bentonite or Polymer suspensions.
- Drifix Spacers do not damage epoxy coated Cages unlike Concrete Spacers.
- Drifix are manufactured from a modified type of polyethylene which does not react concrete mixes, and does not promote corrosion unlike some other types of plastic.
- Water penetration along plastic spacers is approximately 10 times less than when compared to concrete spacers (acc.to lab test report 2111351821 of State Material Testing Office, Germany) according to DIN 1048
- Material is physiologically safe and resistant against all acids and alkaline solutions used in the construction industry.
- Available from stock.

Certificate Of Test For HDPE

Material : Drifix 75mm Closed & Open Type
Raw Materials : HDPE
Method Of Fabrication : Injection Moulding
Colour : Grey

Result

Physical Property	Unit	Value	Test Method
Density	g/cm ³	0.94	ISO 1183
Melt Flow Index	g/10min	0.9	ISO 1133 (1900 c ; 2.16kg)
Melt Flow Index	g/10min	2.5	ISO 1133 (190 o C; 5kg)
Vicai Softening Point	Oc	45	ISO 306
Tensile Modulus	N/mm ²	707	ISO 527/IB
Tensile Stress at Yield	N/mm ²	20.8	ISO 527/IB
Elongation at Yield	%	8.5	ISO 527/IB
Tensile Strength at Break	N/mm ²	14.6	ISO 527/IB
Elongation at Break	%	230	ISO 527/IB
Notched Impact Strength (Charpy)	Kj/m ²	Without Break	ISO 719/2C
Flexural Modulus	N/mm ²	618	ISO 178
Flexural Strength	N/mm ²	19.5	ISO 178

I Certify that the above particulars are correct

The Values Given Above are average obtained from Laboratory Tests.They should be used as a guide only and should not be considered as a firm specification or guarantee.

SNAPFIX

Stable secure spacer for top reinforcement. Inexpensive, non-rusting, good concrete flow. Edge Contact mesans minimum contact with formwork.

Reference	Concrete Cover	Steel Dia. up to	Packaging Qty.	Kp
SNAPFIX 50	50 mm	6 mm	500	5.8
SNAPFIX 60	60 mm	6 mm	500	6.9
SNAPFIX 70	70 mm	12 mm	500	9.0
SNAPFIX 80	80 mm	12 mm	250	6.0
SNAPFIX 90	90 mm	12 mm	250	6.4
SNAPFIX 100	100 mm	12 mm	250	7.0
SNAPFIX 110	110 mm	12 mm	200	6.0
SNAPFIX 120	120 mm	12 mm	200	6.6
SNAPFIX 130	130 mm	12 mm	100	3.5
SNAPFIX 140	140 mm	12 mm	100	3.8



UNIFIX

Plastic spacers for bottom reinforcement instandard slabs, large-area steel support.

Reference	Concrete Cover	To Suit Bar Dia.	Packaging Qty.	Kp
UNIFIX 10	10 mm	up to 40 mm	1000	2.1
UNIFIX 15	15 mm	up to 40 mm	1000	3.5
UNIFIX 20	20 mm	up to 40 mm	1000	4.4
UNIFIX 25	25 mm	up to 40 mm	1000	5.6
UNIFIX 30	30 mm	up to 40 mm	500	3.5
UNIFIX 40	40 mm	up to 40 mm	500	5.8
UNIFIX 50	50 mm	up to 40 mm	500	6.0



CLAMPFIX

Stable bottom spacer with large camping area

Reference	Concrete Cover	Steel Dia.	Packaging Qty.	Kp
CLAMPFIX 15/4 -12	15 mm	4 - 12 mm	1000	2.5
CLAMPFIX 20/4 -16	20 mm	4 - 16 mm	1000	4.9
CLAMPFIX 25/4 -16	25 mm	4 - 16 mm	1000	5.3
CLAMPFIX 30/4 -16	30 mm	4 - 16 mm	1000	6.3
CLAMPFIX 40/4 -16	40 mm	4 - 16 mm	1000	8.4
CLAMPFIX 50/4 -18	50 mm	4 - 18 mm	500	6.0
CLAMPFIX 60/4 -18	60 mm	4 - 18 mm	500	7.2



THRUTY CONES

Formwork protection cones for use at both ends of 'THRUTY' spacer sleeve, helps eliminate damage to formwork it overtightening of through ties takes place. Cones removed after striking formwork, for re-use.

Reference	For Tube Inside Dia.	Packaging Qty.	Kp
THRUTY CONES 22	22 mm	500	4.0



THRUTY

Through tie spacer sleeve. Protective sleeve and spacer for re-usable through tiles on wall and beam formwork.

Reference	Inside Dia.	Outside Dia.	Length (cm)	Packaging m	Kp
THRUTY 10	10 mm	15 mm	202	100	13.7
THRUTY 14	14 mm	19 mm	202	100	18.2
THRUTY 18	18 mm	24 mm	202	50	11.3
THRUTY 20	20 mm	24 mm	202	50	9.6
THRUTY 20(1)	20 mm	26 mm	202	50	15.2
THRUTY 22	22 mm	26 mm	202	50	10.5
THRUTY 22(1)	22 mm	28 mm	202	50	16.6
THRUTY 26	26 mm	32 mm	202	50	19.2
THRUTY 30	30 mm	36 mm	202	50	21.7
THRUTY 32	32 mm	38 mm	202	50	23.1
THRUTY 40	40 mm	46 mm	202	50	28.1



MINIFIX

Universal spacer, Retaining tongues with a clamping action for a number of steel diameters. Wide contact surface gives greater stability. Open structure which does not obstruct concrete flow. External ribs with minimum formwork contact. Well developed and widely used.

Reference		Concrete Cover	For Steel Dia.	Packaging Qty.	Kp
MINIFIX 5	/4-6	5 mm	4-6 mm	10000	4.8
MINIFIX 10	/4-8	10 mm	4-8 mm	1000	2.6
MINIFIX 12.5	/4-8	12.5 mm	4-8 mm	1000	2.7
MINIFIX 15	/4-8	15 mm	4-8 mm	1000	3.1
MINIFIX 15	/8-12	15 mm	8-12 mm	1000	4.4
MINIFIX 15	/10-14	15 mm	10-14 mm	1000	5.7
MINIFIX 15	/14-18	15 mm	14-18 mm	1000	8.0
MINIFIX 20	/4-8	20 mm	4-8 mm	1000	5.4
MINIFIX 20	/8-12	20 mm	8-12 mm	1000	5.8
MINIFIX 20	/10-14	20 mm	10-14 mm	500	6.3
MINIFIX 20	/12-16	20 mm	12-16 mm	500	6.7
MINIFIX 25	/6-10	25 mm	6-10 mm	500	4.6
MINIFIX 25	/10-14	25 mm	10-14 mm	500	6.5
MINIFIX 25	/12-16	25 mm	12-16 mm	500	6.7
MINIFIX 25	/16-18	25 mm	16-18 mm	500	7.2
MINIFIX 30	/14-8	30 mm	4-8 mm	500	7.4
MINIFIX 30	/8-12	30 mm	8-12 mm	500	7.3
MINIFIX 40	/2-4	40 mm	2-4 mm	500	7.3
MINIFIX 40	/4-8	40 mm	4-8 mm	500	7.5
MINIFIX 40	/8-12	40 mm	8-12 mm	500	7.8
MINIFIX 40	/12-16	40 mm	12-16 mm	500	12.4
MINIFIX 40	/20-26	40 mm	20-26 mm	125	4.1
MINIFIX 50	/4-10	50 mm	4-10 mm	250	6.7
MINIFIX 50	/8-12	50 mm	8-12 mm	250	6.9
MINIFIX 50	/20-26	50 mm	20-26 mm	50	1.9
MINIFIX 50	/24-30	50 mm	24-30 mm	50	2.1



SPECIFICATIONS OF SHADOW NET

Main Material	: Hdpe (High Density Polyethylene) With UV Stabiliser
Construction	: Only Monofilament Knitted Lock Stitch Resisting Tear or Fray if Cut.
Roll Size	: Width : 2mtrs , 3mtrs , 4mtrs Length : 25 ~ 100mtrs.
Color	: Light Green
Origin	: Korea

TECHNICAL INFORMATION

Approx. Cover Factor	: 45 - 90%
Approx. UVR Block	: 90%
Approx. Breaking Force	: Warp: 500 N Weft: 1100 N
Approx. Weight (gms/m2)	: 140 - 325

APPLICATION

- 1) For Reducing Sunlight to Required Percentage
- 2) For Fencing Farms, Gardens and Others
- 3) For Covering Swimming Pools, Buildings Etc

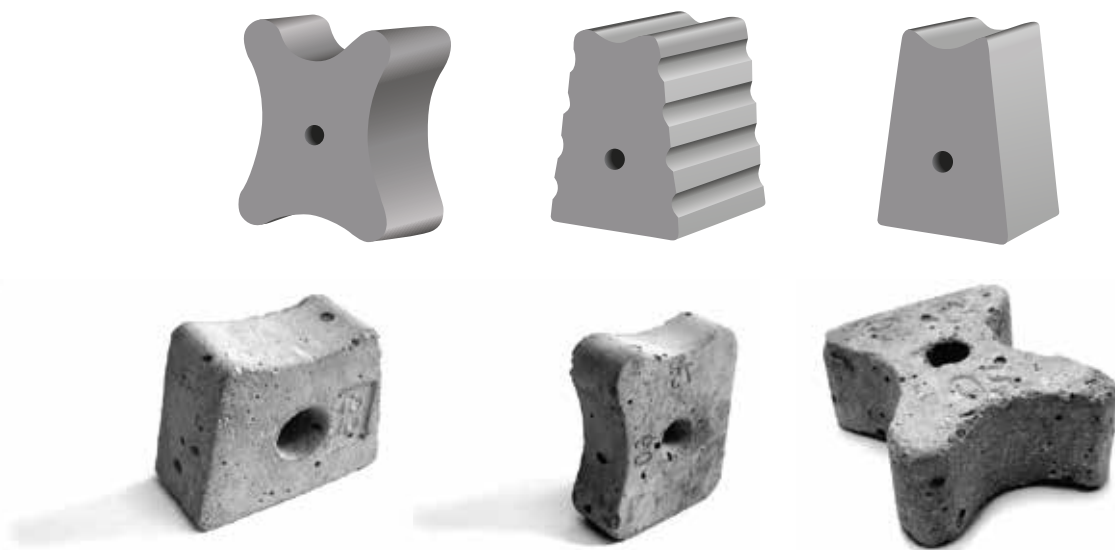


Single, Double, Triple Cover Spacers

Tuffblocks are manufactured from glass fibre reinforced cement, and have been tested to ten times the the load required under standard working practices. With a material strength of approximately 50 N/mm, Tuff Blocks are strong, durable, and the optimum choice for heavy duty steel fixing applications.

Tuffblocks are as strong as the surrounding concrete, give excellent bound and having the same expansion characteristics as concrete, eliminate any point of potential weakness.

*The 40FB was tested to 370kg before failure and even after failure it continues to support 60% to 70% of the test load due to the glass fibres preventing total collapse of the spacer, copy of test results available on requests.



Waffle Spacers

The range of Tuffblock waffle spacers will accurately position 2 or 3 bars at the correct concrete cover in several trough widths.

These spacers are ideal for hollow pot Floor construction where they serve the dual purpose of spacing clay pots and supporting the reinforcement in its correct position.



Double Coupler (Pressed Steel & Drop Forged)

Double Coupler connect two scaffold tubes at right angles. These are critical components in the scaffold structure and must be load bearing to resist slip & distortion.



Swivel Coupler (Pressed Steel & Drop Forged)

Swivel Couplers connect two scaffold tubes at any angle to provide ledger, facade or similar bracing. These are also key components in the structure and must also be load bearing.



Prop Fittings / Accessories / Supports

- Threaded Pipe : 50mm ID
- Prop Nut : Malleable Casted with/without handle and with/without self cleaning system
- Base Plates : 150mm x 150mm x 5mm
120mm x 120mm x 5mm
- Lock Pin with Chain : Lock Pin made of high tensile material to withstand extreme load



Jack Fittings/Accessories/Supports

They are used for uniformly divided load support, either at base or head of scaffold tube. All these can be made in 25, 28, 30, 36 & 38mm bars/tubes in Metric, Square, ACME, UNC or specified thread & length with appropriate nuts.



Rapid Clamp

- Material of the housing : Malleable Cast Iron as ISO 1461 (BS 6681) Grade B-3512
- Ultimate Tensile Strength of the Base Metal : 32.5 Kgs/mm²
- Elongation : 10%
- Material of the Wedge : Drop forged in EN8, Hardened & Tempered, Oil quenched, Hardness upto 50-55 HRC
- Finish : Zinc Coated / Painted



Shuttering Clamp

60 cm, 80 cm, 90 cm, 100 cm & 120 cm



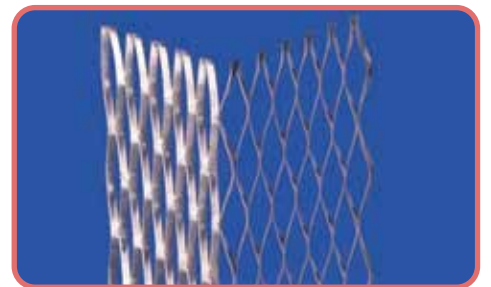
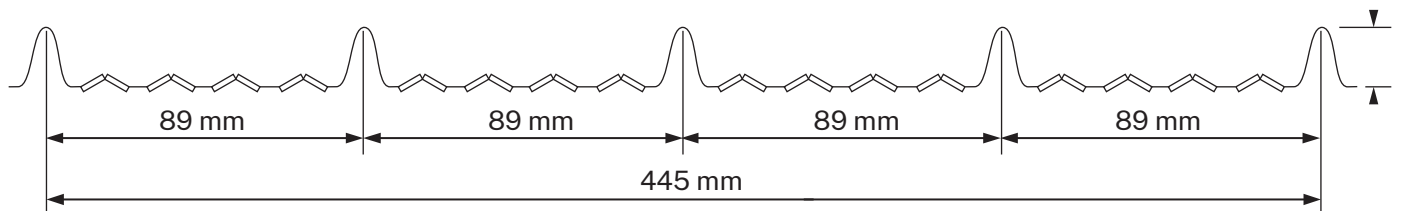
Introduction

Hy-rib is a permanent formwork for concrete. It is used mainly for forming construction joints but has many other applications.

In construction joints, the formwork retains the poured concrete and produces a surface which requires no preparation for bonding to the next pour. There is a high degree of control over the quality of the bonding which is as strong as well prepared scabbled joint.

Hy-rib can be installed in less time than plywood or steel formwork. It can be placed before the rod reinforcement which can be positioned later by placing it through the mesh of the Hy-rib. No drilling is needed. The material can be cut to accommodate rods already positioned. Since preparation of the joint surface is eliminated, the reinforcement fixing can continue without interruption. Expamet Hy-rib is left in place. Stripping of formwork is eliminated and only the supports need to be removed. The result is an obvious time saving. In many situations, Hy-rib can be supported by the reinforcement itself. Elimination of temporary support results in additional time saving.

Hy-rib is being used on many large building and civil engineering projects around the world. Major authorities have approved its use in structures as varied as nuclear reactors, water and sewerage plants, tanks, dry docks and other marine projects, foundations, bridge decks and many others.



Material Thickness (mm)	Weight (Kg/m ²)	Rib Depth (mm)	Maximum Centres of support (mm)
0.4	1.78	8	600
0.5	2.22	8	600

Material Thickness (mm)	Weight (Kg/m ²)	Mesh Size SWxLW(mm)	Maximum Fixing Centres (mm)
0.460	1.15	9.2 x 28.6	350

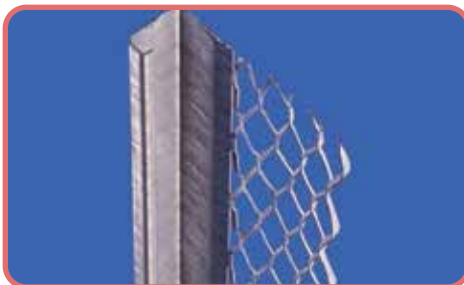
Material Thickness (mm)	Weight (Kg/m ²)	Rib Depth (mm)
0.460	1.15	9.2 x 28.6
0.460	1.15	9.2 x 28.6

Description

A comprehensive range is offered to give extra speed, efficiency and better finishing. The use of plasterers' beads helps the formation of joints, corner, edges and abutments which are resistant to chips, cracks and impact damage

Plaster Stop

Inside Case	Length
10 mm	300 cm
13 mm	300 cm
16 mm	300 cm
19 mm	300 cm



Specification

Sabaq Beads is made in accordance with BS 6452 : Part 1 : 1984.

Sabaq Beads are made from:

- ◆ Pre-galvanized steel complying with :
 - ▶ BS 2989: steel grade Z2, Zinc type G275.
 - ▶ ASTM A527-G60 & G 90 or A653/M-G90.
 - ▶ DIN EN 10147
- ◆ Stainless steel complying with:
 - ▶ BS 1449 : Part 2304815
 - ▶ AISI 304, A2
 - ▶ DIN, material no. 1.4301

Movement Bead

Description	Length
10 mm	300 cm
13 mm	300 cm
16 mm	300 cm
19 mm	300 cm



Angle Bead

Description	Length
45 mm wings	300 cm
53 mm wings	300 cm
65 mm wings	300 cm



Architrave Bead

Description	Length
With Flange 10mm	300 cm
With Flange 13mm	300 cm
With Flange 10mm	300 cm
With Flange 13mm	300 cm



External Render Stop

The best means of achieving a neatly formed lower edge to external rendering or, as it is sometimes called, a 'bell cast stop'. Is simple to use and, once the brickwork is complete, may be fixed in any position and at any time to provide positive support for the render. Ref. 570.

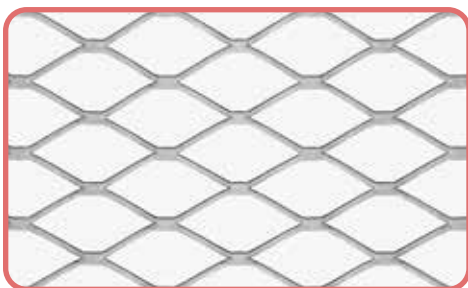
Movement Bead

Examel movement bead is supplied ready for fixing to form movement joints in plaster, render and similar materials, providing for a 6 mm movement. The bead consists of two opposed lengths of Expamet plaster stop (formed in light coat galvanised steel) joined by a white PVC extrusion. Fixing is by plaster dabs or by galvanised nails driven through the holes provided. The face of the PVC extrusion is fitted with a protective tape which is removed after plastering. For internal use: Ref. 588 10 mm($\frac{3}{8}$ ") metal bead depth with PVC extrusion allowing for 13 mm($\frac{1}{2}$ ") plaster thickness. Ref. 589 16 mm($\frac{5}{8}$ ") metal bead depth with PVC extrusion allowing for 19 mm($\frac{3}{4}$ ") plaster thickness. For external use (tight-coat galvanised to Zih2 quality): Ref. 590 19 mm metal bead depth with PVC extrusion allowing for 22 mm($\frac{7}{8}$ ") render thickness. Patent pending.

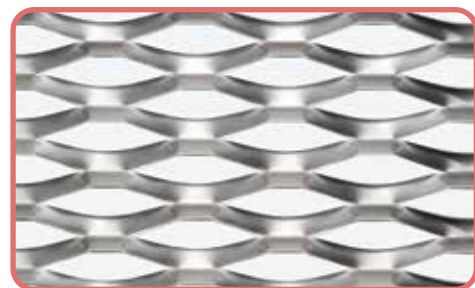
Architrave Bead

Architrave bead with expanded mesh wing. designed to create a plaster stop at door frames. Provides a key for plaster at this point, Forms a straight edge and guide for ruling off plaster. Provides a recess which creates a shadow line effect around the door frame-sometimes preferred for aesthetic reasons. The recess can be painted the same as the wall, the same as the door frame, or a colour contrasting with both. Ref 579 13 mm($\frac{1}{2}$ ") and Ref. 585 10 mm($\frac{3}{8}$ ") flange depth. For use with both steel and timber door frames, the outer flange abutting with the frame. Ref. 580 13 mm($\frac{1}{2}$ ") and Ref. 586 10 mm($\frac{3}{8}$ ") flange depth. For use with timber door frames, the flange either engaging into rebates in the frames or abutting with the frame. These beads can also be used for creating shadow lines elsewhere than at doors.

Expanded Metal Lath

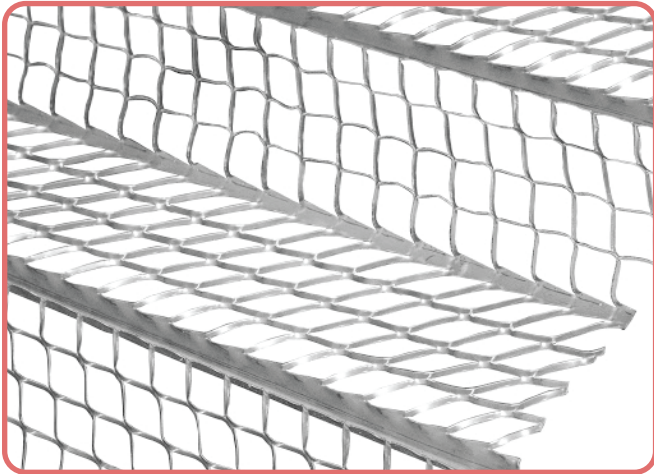


Expanded Metal Lath (actual size)

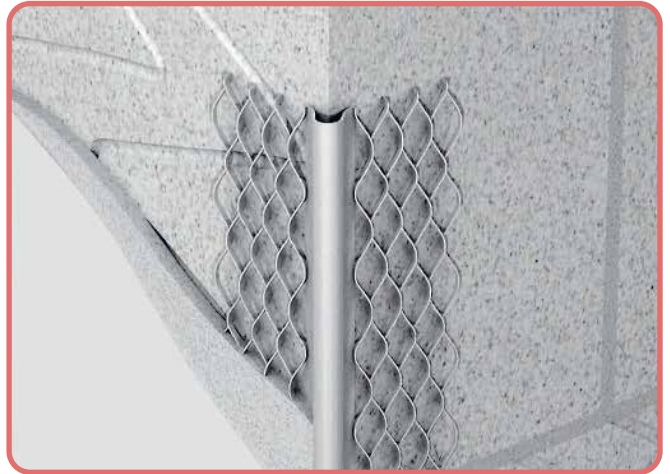


Expamet Expanded Metal Lath (actual size)

Nominal mesh size SW	Nominal sheet size LWxSW in mm & in Inch	Nominal material thickness	Nominal Weight	Maximum centres of supports	Finish
6 mm ($\frac{1}{4}$ ")	2438 mm x 686 mm (8' x 2'3")	0.475 mm	1.22 kg/sq m 2.25 lb/sq yd	300 mm (12")	painted
6 mm ($\frac{1}{4}$ ")	2438 mm x 686 mm (8' x 2'3")	0.675 mm	1.63 kg/sq m 3 lb/sq yd	350 mm (14")	painted
6 mm ($\frac{1}{4}$ ")	2438 mm x 686 mm (8' x 2'3")	0.500 mm	1.22 kg/sq m 2.25 lb/sq yd	300 mm (12")	made from tight-coat galvanised sheet
6 mm ($\frac{1}{4}$ ")	2438 mm x 686 mm (8' x 2'3")	0.675 mm	1.63 kg/sq m 3 lb/sq yd	350 mm (14")	made from tight-coat galvanised sheet



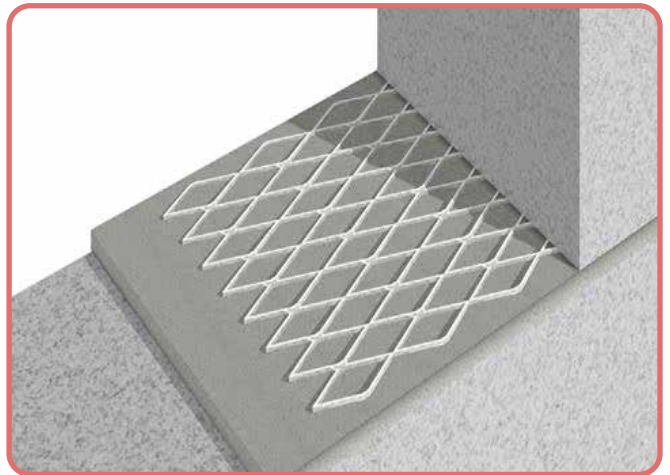
Rib - Lath



Angle - Bead



Block Mesh



Metal Lath



Corner Bead



Fiber Mesh



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