

ROOFING MATERIALS PROPERTIES COMPARISON TABLE

Type Of Roof Properties	Metal Roofing (0.5mm)	Asbestos Roofing (8 waves)	Bitumin Wave Roofing (Onduline Type)	Ceramic Tile Roofing	VPN Euroline® Roofing
Stability in corrosive environment	Not stable in corrosive environment	Not stable in corrosive environment	Highly stable in corrosive environment	Highly stable in corrosive environment	Highly stable in corrosive environment
Tensile Strength	50 Mpa	20 Mpa	18 Mpa	23 Mpa	27 - 31 Mpa
Flexural Strength	40 Mpa	16 Mpa	1 Mpa	10 Mpa	45 - 55 Mpa
Combustibility	Non-combustible	Non-combustible, but has micro-explosions while burning	Combustible with high degree of inflammability	Non-combustible	Non-combustible
Thermal conductivity	0.51 W/m °C	0.46 W/m °C	0.30 W/m °C	0.27 W/m °C	0.19 W/m °C
Weight of 1.0m ²	4.5 kg	13.4 kg	3 - 4.5 kg	46 - 60 kg	3.4 - 3.6 kg
Sound Insulation	Does not provide absorption of the exterior noise (rain, hail, street noise pollution)	Provides insignificant absorption of the exterior noise (rain, hail, street noise pollution)	Provides insignificant absorption of the exterior noise (rain, hail, street noise pollution)	Provides insignificant absorption of the exterior noise (rain, hail, street noise pollution)	Provides significant absorption of the exterior noise (rain, hail, street noise pollution)
Eco-friendliness and Health Hazardness	Ecologically clean	Contains carcinogenic asbestos	Contains carcinogenic asbestos	Ecologically clean	Ecologically clean



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VPN EUROLINE®
(A Member of Leopad Group)



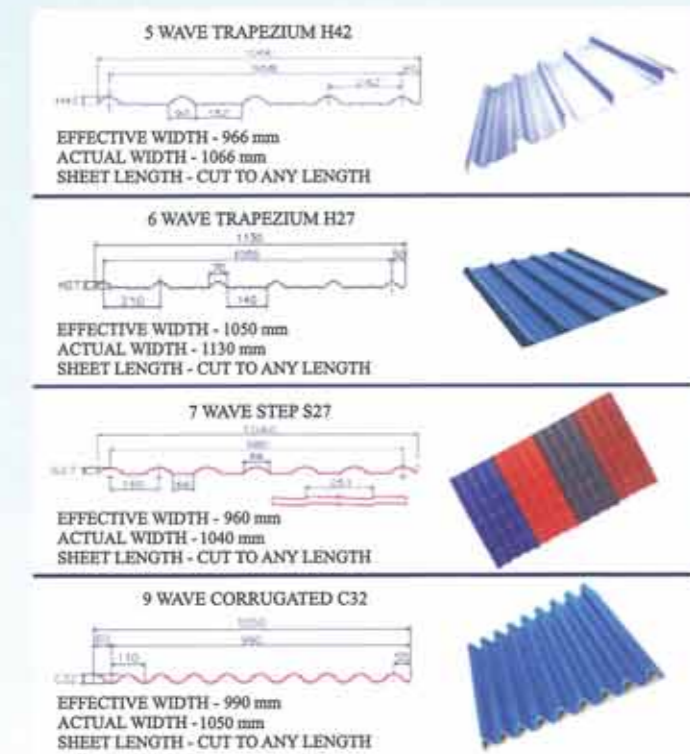
Multi Layer Rigid Roofing Materials



Quality At All Levels

www.leopad.com

VPN Euroline® manufactures technologically advanced Rigid Multilayer (3-layer) polyvinyl chloride (UPVC) roofing material with superior quality and excellent performance. VPN Euroline® roofing material comes with thickness range of 1.5mm to 3mm. VPN Euroline® roofing with unique profile design for roofing and cladding works provides various advantages for all type of buildings and construction industries.



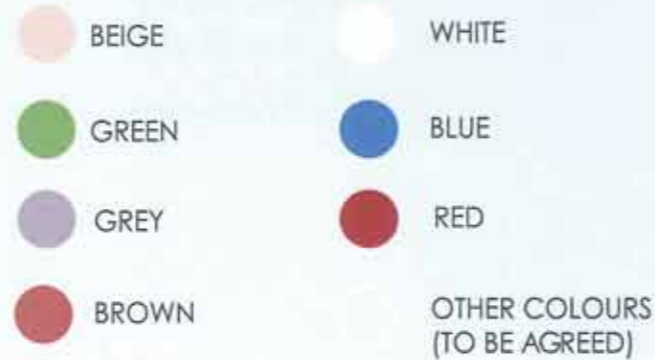
Top Layer - Consists of high quality UV stabilizer and selection of world's best colour pigment materials

Material Structure



Mid Layer - Consists of high quality insulation materials-provides reduction in sound and thermal insulation problems

Choice of Colours



The UPVC roofing is a great alternative to conventional roof covering as its made of the below exclusive properties: -

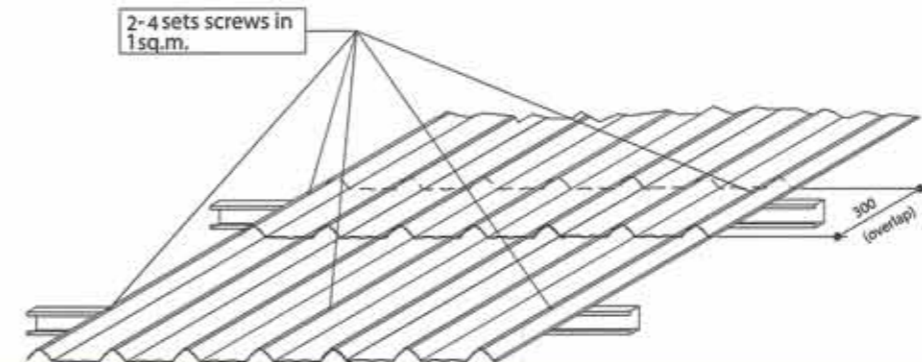
- Light weight (3.6kg/m²)
- Chemical resistance – non reactive against acids, salt and other corrosive agents
- Excellent thermal insulation
- Sound insulation – provides excellent protection noise of rain, hail and external noises
- Wide range of usage temperatures – 20C° to +60C°
- Weather/ frost resistance – withstands extreme weather conditions
- Durability – material is guaranteed for its performance for the period of not less than 5 years for material having 2mm thickness and above.
- Fire resistance – it is a non-combustible material tested by SIRIM to BS 476.
- Elasticity and flexibility – allows construction of arch type roofs and curvilinear
- Nominal thickness tolerance ± 0.25 mm
- Skylights - Available in transparent / translucent from matching profile
- Environmental friendly and recycleable
- 100% Malaysia made product



Roofing Accessories for H42 & H27 Profile		Roofing Accessories for 7 Wave Step Profile - S27	
Profile	Isometric View	Profile	Isometric View
Ridge 42-Ridge Capping (Hot Form)		Ridge Capping	
Ridge Capping From Flat Sheet		Hip Capping	
Valley Gutter From Flat Sheet		3-Way Apex	
Wall Flashing		End Capping	
Fascia Capping			
Corner Capping			

INSTALLATION PROCEDURE

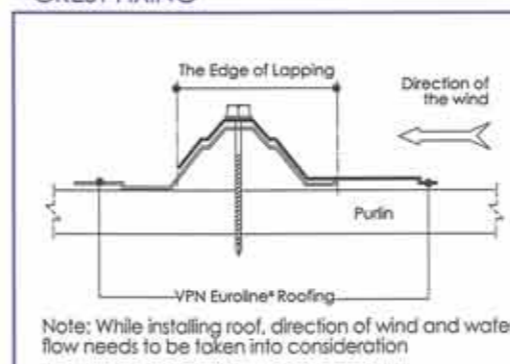
VPN Euroline® roofing material can be easily cut, drilled and sawn. There is no appearance of cracking or deformation. Light weight allows reduction in labour and structural cost. High flexural strength allows easy transportation and free of damage installation. Smooth surface prevents accumulation of dirt and growth of bacteria and moth.



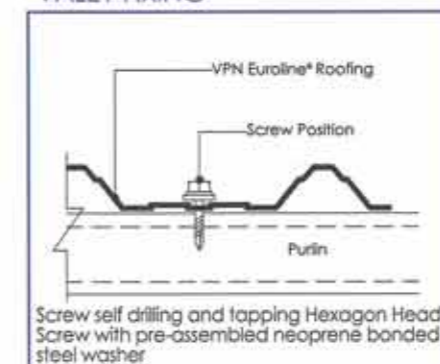
Roofing Profile	Purlin Span
H27	0.8m
H42	1.2m
C32	1.0m
S27	0.5m

Table of Screws	Type of Washers
Roofing Profile	Screw Size d x L
H27	5.5 x 38
H42	5.5 x 65
C32	5.5 x 38
S27	5.5 x 38

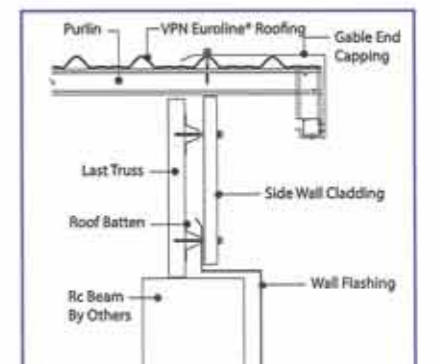
CREST FIXING



VALEY FIXING



GABLE AND FIXING



WORLDWIDE PRESENCE & DISTRIBUTION NETWORK



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PRODUCT CATALOGUE



About us

Established over 20 years ago, LEOPAD is one of the oldest and most respected names in the Scaffolding Industry with ISO 9001:2008 Certification.

LEOPAD DUBAI is an enterprise that provides ONE STOP SOLUTION for all scaffolding needs in a most competitive manner in the Middle East Region and International Market.

All our products are manufactured to ISO 9001:2008 requirement and comply with British, European, Australian and Aramco Standard. Our products are well recognized and used in Oil & Gas (Onshore & Offshore), Power Generation, Civil Construction, Shipyard and Aviation Industry.

Quality is paramount at LEOPAD DUBAI LLC where quality products are supported with quality services. To ensure complete satisfaction of both domestic and international customers, LEOPAD DUBAI LLC, uses state of the art manufacturing equipment, advanced production procedures and individualized technical support available for 24 hours. It goes without saying that, in designing all our products, safety comes first. This means durability and reliability are the current regulation and standard to ensure quality products.

Our purchasing power enables us to source the highest quality at lowest raw material cost which combines with our modern manufacturing facilities enables us to offer our customer the best products at the best prices.

LEOPAD DUBAI LLC endeavors to develop organizational excellence that creates quality service to attain total customer satisfaction and to exceed customer expectation.

The name you can rely on . . .





SCAFFOLD FITTINGS

DROP FORGED DOUBLE COUPLER



This scaffold fitting connects two scaffold tubes at right angle. It is a load bearing fitting enable to resist both slip and distortion. Precision made centers or fitting's body ensure a 90 degree connection.

SPECIFICATION

Size: 48.3 mm
Standard: EN74 Class B / EN74-1 Class B / AS1576.2-91
Finishing: Zinc Plated / Hot Dipped Galvanized

DROP FORGED SWIVEL COUPLER



This scaffold fitting connects two scaffold tubes at any angle to provide a ledger brace, façade or similar bracing to a scaffold structure. It is a load bearing fitting.

SPECIFICATION

Size: 48.3 mm
Standard: EN74 Class A / EN74-1 Class A / AS1576.2-91
Finishing: Zinc Plated / Hot Dipped Galvanized

DROP FORGED PUTLOG COUPLER



This scaffold fitting connect two scaffold tubes at right angle. It is used to connect transom tubes for the support of the scaffold boards and considered to be non load bearing fitting.

SPECIFICATION

Size: 48.3 mm
Standard: BS1139 / BS1139 - 2.2 / AS1576.2-91
Finishing: Zinc Plated / Hot Dipped Galvanized

BOARD RETAINING COUPLER



Boards are quickly locked in right position, providing height resistance to both lateral and upward movement. The fitting should be used on scaffolds exposed positions where uplift maybe expected on board platforms.

SPECIFICATION

Size: 48.3 mm
Standard: BS1139 / BS1139 - 2.2
Finishing: Zinc Plated / Hot Dipped Galvanized



SCAFFOLD FITTINGS

GIRDER COUPLER FIXED TYPE



This scaffold fitting connects a single scaffold tube at right angle to most steel sections. It can accommodate steel flanges beam (I-Beam) with one on each opposite flanges up to 42mm thickness and should be used in pairs.

SPECIFICATION

Size: 48.3 mm
Standard: BS1139 / BS1139 - 2.2 / AS1576.2-91
Finishing: Zinc Plated / Hot Dipped Galvanized

GIRDER COUPLER SWIVEL TYPE



This fitting provides a rotating coupling of a scaffold tube to an "I" beam girder and must be used in pairs with one on each opposite flanges.

SPECIFICATION

Size: 48.3 mm
Standard: BS1139 / BS1139 - 2.2 / AS1576.2-91
Finishing: Zinc Plated / Hot Dipped Galvanized

PRESSED STEEL SLEEVE COUPLER



This scaffold fitting connects two scaffold tubes externally. A centre steel divider ensures an equal insertion of each tube. Fitting can be used where tension joints are required particularly useful for long bracing tubes.

SPECIFICATION

Size: 48.3 mm
Standard: EN74 Class B / EN74-1 Class B / AS1576.2-91
Finishing: Zinc Plated / Hot Dipped Galvanized

INNER JOINT PIN



This fitting is for vertical handrail application. Operates by being inserted internally and expand to apply grip to internal walls of tubes.

SPECIFICATION

Size: 48.3 mm
Standard: BS1139 / AS1576.2-91
Finishing: Zinc Plated / Gold Passivated



SCAFFOLD FITTINGS

TOE BOARD CLAMP



A specially designed fitting for securely fixing and retaining the toe board in position. A hook simply locates into the scaffold standard and when tightened the plate grips the tube and tightens the board, resisting lateral and upward movement.

SPECIFICATION
Standard: EN74 / BS1139 / AS1576.2-91
Finishing: Zinc Plated / Gold Passivated

PRESSED STEEL LADDER CLAMP



Safely and securely clamps a ladder to a scaffold tube. Used in pairs to ensure that a ladder does not slip or lean.

SPECIFICATION
Standard: EN74
Finishing: Zinc Plated / Gold Passivated

LIMPET CLAMP



For securing timber / metal or other scaffold decks. It eliminates the use of steel wires which causes safety hazard and also house keeping issue. It is also cost effective.

SPECIFICATION
Standard: BS1139
Finishing: Zinc Plated / Gold Passivated

DROP FORGED HALF COUPLER



This scaffold fitting is used to hold tubes for non load bearing purpose.

SPECIFICATION
Size: 48.3 mm
Standard: EN74
Finishing: Zinc Plated



SCAFFOLD FITTINGS / ANCILLARY

JIS PRESSED DOUBLE COUPLER



This scaffold fitting connects two scaffold tubes at right angle. Precision made centers or fitting's body ensure a 90 degree connection.

SPECIFICATION
Size: 48.3 mm X 48.3 mm
Standard: JIS Standard
Finishing: Gold Passivated

JIS PRESSED SWIVEL COUPLER



This scaffold fitting connects two scaffold tubes at any angle to provide a ledger brace, facade or similar bracing to a scaffold structure.

SPECIFICATION
Size: 48.3 mm X 48.3 mm
Standard: JIS Standard
Finishing: Gold Passivated

DROP FORGED COMBINATION / PROP COUPLER



This scaffold fitting connect a scaffold tube at right angle / any angle to props outer. It is used when lacing a line of support props together. Available in fix and swivel type.

SPECIFICATION
Size: 48.3 mm X 60 mm
Standard: EN74
Finishing: Zinc Plated / Hot Dipped Galvanized

LADDER ACCESS GATE



Ladder access gates secure access points on the scaffold to prevent falls from height. The essential way to provide secure ladder access to scaffolding where external ladders employed.

SPECIFICATION

- Steel gate with high variability finishing.
- Reversible to suit all opening with built in toe board
- Spring operated and fits 750mm opening
- Easy installation using standard scaffold spanner.

Standard: BS4211
Finishing: Painted / Galvanized / Powder Coated



TOOLS / ANCILLARY

SCAFFOLD TAG AND HOLDER



To indicate the safety level of scaffolding during erection, after completion and also during dismantling. Used in verification and tracking for safety of working scaffold structure by scaffold supervisors and inspectors.

SPECIFICATION

Re-writable, Reusable, Durable
Packing (1 Box): 10 Holders + 20 Tags + 2 Marker Pens.
Brand: DURA, MALAYSIA

SCAFFOLDER RATCHET



Scaffold Ratchet is specially made for use on BS/EN scaffold couplers. It is made from high quality chrome vanadium steel and heat treated for durable & longer life span.

SPECIFICATION

Size: 17/21MM and 19/21MM
Brand: DURA, MALAYSIA.

SCAFFOLD SPIRIT LEVEL



Scaffold Spirit Level (Magnetic) made of Aluminium and comes with a pouch, triple indicator. It is specially designed to be used on all type of scaffolding for easy and accurate level reading.

SPECIFICATION

Size: 10"/25 cm
Brand: DURA, MALAYSIA.

STABILA SPIRIT LEVEL



Scaffold Spirit Level (Magnetic) made of Aluminium and comes with double line indicator. It is specially designed to be used on all types of scaffolding for easy and accurate level reading. It comes with a level pouch.

SPECIFICATION

Size: 10"/25cm
Brand: STABILA, GERMANY.



TOOLS / ANCILLARY

FULL SET SCAFFOLDER'S LEATHER BELT



Made of best quality leather for strength, durability and longer life span.

ACCESSORIES

- Leather Belt,
- Spanner Pouch/Holder,
- Ratchet Pouch/Holder,
- Tape Pouch/Holder,
- Spirit Level Pouch/Holder

Brand: DURA, MALAYSIA.

TOOLS LANYARD



Used by scaffolders to secure tools from falling down. Scaffold tools must have holes at the edge in order to be used with tools lanyard

SPECIFICATION

Max Stretched Length: 1450mm
Normal Length: 400mm
Diameter of Cord: 3.0mm
Diameter of Stainless Wire Core: 1.0mm
Brand: DURA, MALAYSIA

SCAFFOLDER SPANNER



Scaffold Spanner is specially made for use on BS/EN scaffold couplers and usable to fix 21mm size nut. It is made from high quality chrome vanadium steel and heat treated for durability & longer life span. Head is rotatable to 180 degree with hole on end of spanner tail to attach with tool lanyard.

SPECIFICATION

Size: 7/16"
Brand: DURA, MALAYSIA.

HEAVY DUTY SCAFFOLDING CLAMP LIFTING BAG



Used for lifting scaffold clamps to upper heights, manufactured from tough woven polypropylene. Labeled with safety instructions / handling.

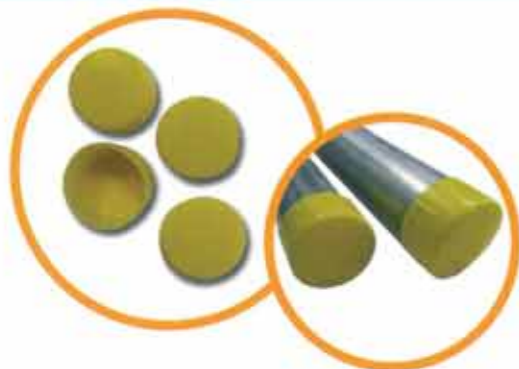
SPECIFICATION

Bag Size: 33cm (Dia) x 56cm (Height) (50Kg)
: 28cm (Dia) x 50cm (Height) (30Kg)
Fabric: 100% Polyester plain weave fabric x 390g/m2
Base: 100% Polyester plain weave layers fabric x 0.45mm
Side: 100% Polyester plain weave 2 layers fabric x 0.45mm
Safe Working Load (S.W.L): 50 KG & 30 KG
Brand: DURA, MALAYSIA.



TOOLS / ANCILLARY

TUBE END CAP



To protect the users from injuries against scaffold protruding pipe-ends. Simple to fix and compliance to safety requirements. Highly visible color and fits any type of scaffold tubes of 48.3mm diameter.

SPECIFICATION

Size Fit : 48.3mm (Tube Diameter)
Finishing : HDPE

FITTING CAP



To protect the users from injuries against scaffold fittings end/nut. Highly visible color and it fits any type of scaffold fittings.

SPECIFICATION

Size Fit : 11.5mm (T-Bolt Nut)
Finishing : HDPE

FITTING BIN



Specially built from strong steel channels. These closed sided stilages are designed for storage and transportation of scaffold fittings and other smaller ancillary components.

SPECIFICATION

Finishing : Painted / Galvanized

TUBE RACK



Specially built from strong steel angle channels. These closed sided stilages are designed for storage and transportation of scaffold tubes and other system scaffolds elements.

SPECIFICATION

Finishing : Painted / Galvanized



SCAFFOLD TUBES

HOT DIPPED GALVANIZED TUBES



Hot Dipped Galvanized scaffolding tube strictly conform to BS EN standards. Tested and approved by Fugro-Suhaimi - Saudi Aramco approved metallurgical laboratory.

MECHANICAL PROPERTIES

Yield Strength : 235 MPa (Min)
Tensile Strength : 340-520MPa
Elongation : 24% (Min) on Gauge Length
5.65 x Sq. Root of Cross Sectional Area

End Finish : Plain End
Straightness : 1mm in 500mm length
Zinc Coating : 40 Microns Minimum Outside
Marking : EN39/ 3.2MM or BS1139/4.0MM/
LD MM YY Every 1 Meter
Standard : EN39 / BS1139 / AS1576.3 - 1995
& AS1163, Grade C 250

Length : 6.0 MTR (Standard Size)
(Also available in cut length)

Outside Diameter		Thickness		Weight per unit length	
inches	mm	inches	mm	lbs/foot	Kg/m
1 1/2	48.3	0.126	3.2	2.392	3.56
1 1/2	48.3	0.157	4.0	2.937	4.37

CHEMICAL COMPOSITION

%C	%Si	%Mn	%P	%S	%Al
Max	Max	Max	Max	Max	Max
0.2	0.05	1.4	0.040	0.045	0.020

Other Grade Scaffolding Tube
Scaffold tubes (JIS G 3444:1988)

Standard No.	JIS G3444
Material	STK 500
Specification (mm)	48.6 (O.D) x 2.4 (THK) x LENGTH
Galvanization	Hot Dipped
Unit Weight	2.73kg/m
End Finish	Plain End



WOODEN & LAMINATED BOARD

BS SCAFFOLD WOODEN BOARD



- All boards are end banded with steel end bands according to British Standard BS 2482 which is the only valid Standard for this product.
- The British Standard BS 2482 specifies requirement for wooden board with width of 225mm and thickness of 38mm. It covers board sizing, board construction and timber quality as well as grading for which it specifies:

For 38mm thickness Scaffold Wooden Boards as follows:

- 1.2 Mtr support centre – a grade that is suitable for support at centre up to 1.2Mtr.
- We supply boards with both Machine /Manually banded at edge of each board to avoid crack and ensure strength.
- The word "Support every 1.5M or 1.2M max" embossed on each band to indicate suitable span to be used.
- Standard Size : 38mm (Thickness) x 225mm (Width) x 3.9M (Length). Length and thickness tolerance as per standard.
- Shorter lengths are also available subject to order quality.
- Wood used: Whitewood and Spruce Pine.

OSHA PROOF TESTED LVL PLANKS



- Meets strength requirement by US Department of Labour – Occupational Safety and Health Administration (OSHA)
- The structural uniformity of LVL makes it the perfect solution for a safe and light weight scaffold board
- Each board is made from many layers of thin veneer which increases the reliability and strength of the product
- Every board is individually proof tested to verify that it conforms to OSHA deflection limits before being branded as scaffold board.
- Standard size: 38mm (Thickness) x 225mm (Width) x 3.9M (Length)
- Shorter lengths are also available subject to order quantity
- Glue : WBP (Phenol Formaldehyde adhesive) Environment Friendly & Waterproof
- Wood Used: Radiate Pine / Masson Pine

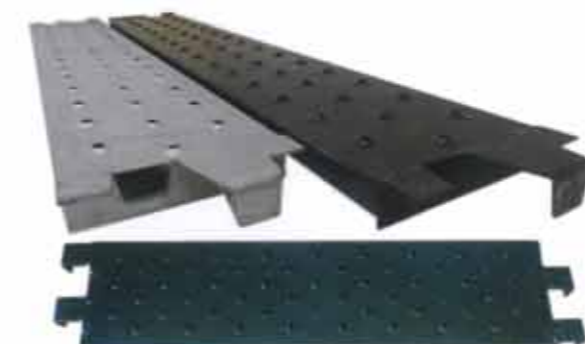


STEEL / ALUMINIUM BOARD

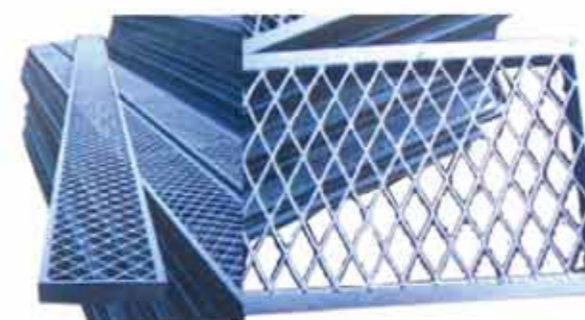
SCAFFOLD STEEL BOARD WITHOUT HOOK



STEEL BOARD WITH HOOK



EXPANDED STEEL BOARD



ALUMINIUM BOARD



Scaffold Metal Board is now used as a replacement of timber boards as temporary access platform. It boasts high load carrying capacity and triples the life span from a timber boards for a competitive price.

All steel boards comply to BS EN 12811-1 and gone through stringent technical test as well as many international third party recognition. It is recommended to use Board Retaining Coupler (BRC) / Limpet Clamp to secure the steel board.

Also available with hook or without hook (plain end)

SPECIFICATION

Available Sizes :

Height	: 38mm & 45mm
Width	: 210mm & 225mm
Length	: 1.0m to 4.0m (without hook type) : 1.2m to 2.5m (with hook type)
Thickness	: 1.2mm/1.5mm/1.8mm/2.0mm
Standard	: BS EN 12811-1 / AS 1577 - 1993
Finishing	: Pre Galvanized / Painted / Hot Dipped Galvanized

Expanded Steel Board are specially designed to be used in shipyard projects. These boards are best for blasting works which does not allow accumulation of garnets debris unlike wooden and steel board which allow the garnets debris to accumulate on surface which cause safety hazard.

SPECIFICATION

Size : 38mm (H) x 225mm (W) x Length
Finishing: Painted / Hot Dipped Galvanized

Scaffold Aluminium Board are used as a temporary access platform. It boasts high load carrying capacity and triples the life span of a timber board. It is fully made of aluminium and weights only 3.8kg/m. It comes in various sizes from 1m to 4m length. The dimension of this aluminium board is 45 mm (H) x 225 mm (W).



BS UNIT / ALUMINIUM / LADDER BEAM

BS STANDARD UNIT BEAM



Can be used either to provide a clear span between scaffold or assembled as prefabricated framework for temporary building or other structure.

- Complete span can be quickly erected utilizing individual beam lengths.
- Beam ends are self locating to provide fast on site assembly and are secured using M20 x 50 bolt, complete with nut and washer.
- Top and bottom chords manufactured from 48.3 OD x 4.0mm thickness steel tube to BS1139, cut to length 2.44M or 3.66M at 610mm centre to centre vertical.
- Heavy duty spigot welded in one end of chords. End post is 48.3mm OD x 3.2mm thick to BS 4360.
- Diagonal brace tube are 27mm OD x 3.2mm thickness steel tube grade 13C BS4380.
- Coupler plate with 2 or 3 holes are welded on top and bottom at both ends.

Finishing: Painted / Galvanized

ALUMINIUM BEAM



Aluminium Beams combine the benefits of strength, lightness and ease of handling with consistency, versatility and exceptional durability. With an extensive range of accessories, the beams form a complete system that can be used for virtually unlimited configurations and applications. Two core secondary beams are available from our range. These are the single-web S150 DU-AL aluminium beam, with a SWL bending of 6.8 kNm, and the stronger twin-web T150 DU-AL aluminium beam, with SWL bending of 13kNm. Sizes are available according to Aluminium Beam design and quantity.

BS STANDARD LADDER BEAM



- Designed to provide a clear span between scaffolds.
- Leopad Ladder Beams are 305mm deep and are fabricated in 48mm OD x 3.2mm or 48mm OD x 4.0mm wall thickness high tensile steel tubes.
- Available with saddled or flattened rung, welded at every joint, they provide a strong, yet convenient support system that are readily integrated with existing scaffolding, using standard fittings (Ladder beam with spigot end can also be supplied).

Finishing: Painted / Galvanized



LIGHT WEIGHT SCAFFOLDING

LIGHT WEIGHT SCAFFOLDING



The light weight scaffolding frame normally used for interior, exterior painting, plastering, cabling, ducting and clearing jobs. The dimensions are as follows: 1.7mtr Height x 1.2mtr Width.

The frames are placed 1.7mtr apart horizontally and cross braces 1.8mtr are fixed on both sides ensuring a sturdy working platform.

SPECIFICATION

Size: 1700mm Height x 1219mm Width x 2.0mm Thickness

Finishing: Galvanized / Painted

STRUCTURE DESCRIPTION

- 1 Walking Frame
- 2 Vertical Frame
- 3 Cross Brace
- 4 Arm Lock
- 5 Joint Pin
- 6 Walking Board
- 7 Jack Base
- 8 Stairs
- 9 Walking Frame
- 10 Hand Rail Pole
- 11 Hand Rail

WALKING BOARD

- Works as temporary access platform.
- Placed at top of frames.

Sizes: 1829mm x 500mm

Finishing: Galvanized / Painted

H FRAME STAIRCASE

- Temporary access to different level of platform

Sizes: 1829mm x 1725mm x 450mm

Finishing: Galvanized / Painted

JOINT PIN

- Connect between frames

Sizes: 225mm x 1.6mm Thickness

Finishing: Galvanized / Painted

CROSS BRACE

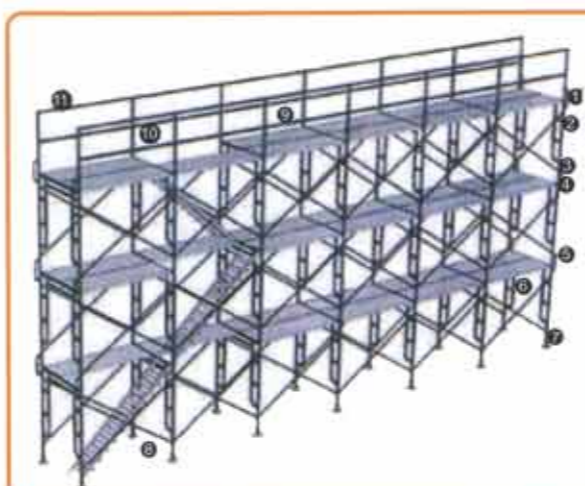
- Cross braces (2.2M) are fixed on both sides ensuring a sturdy working platform.

Sizes: 1829mm Height x 1219mm Width x 2.0mm Thick

Finishing: Galvanized / Painted

OTHER ACCESSORIES

- Arm Lock
- Hand Rail Pole
- Jack Base
- Hand Rail



WALKING BOARD



H FRAME STAIRCASE





SYSTEMS SCAFFOLD

CUPLOCK SYSTEM



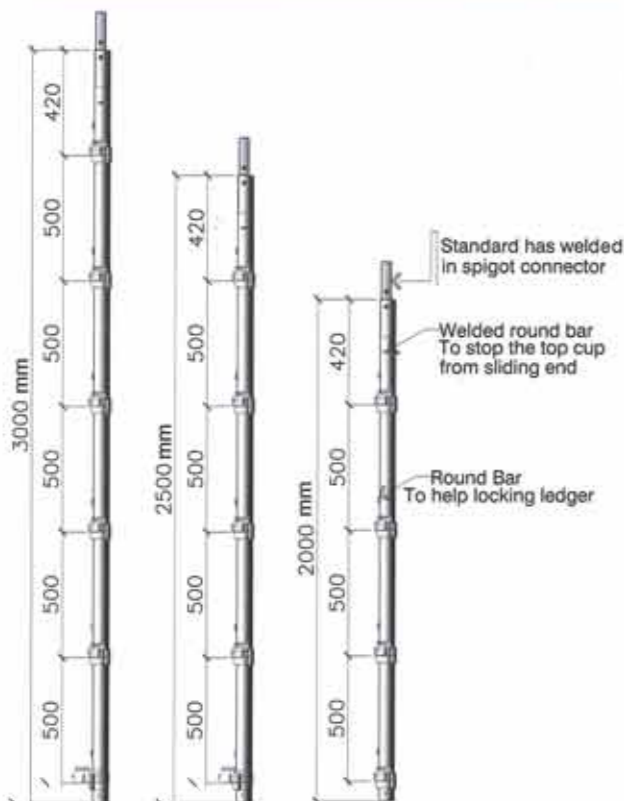
Cuplock is the most popular and proven multipurpose scaffold system which can be used for all forms of access and support structures in the building and construction industries, shipbuilding, offshore construction, aviation and industrial maintenance. Cuplock provides major saving in erection and dismantling time thus minimize on site cost.

Cuplock's unique node point connection allows up to four horizontal members to be connected to a vertical member in one single action without the use of nuts and bolts or wedges. The locking device is formed by two cups, a fixed lower cup which is welded to the vertical component at pre-located intervals and sliding upper cup. The end of horizontal components, which is the forged blade are inserted into the lower cup and the upper cup is pushed down and rotated to secure the components in place and a knock by a hammer is needed for good rigid connection.

Cuplock is extremely versatile and easy. It can be erected for straight, curved, and circular configuration for both access and support, and also for independent and mobile towers.

Both vertical and horizontal member are manufactured from 48.3mm x 3.2mm high tensile steel to comply to British Standard which is BS1139.

VERTICAL STANDARD



Made from high quality 48.3mm, diameter by 3.2mm, wall thickness steel tube, standard incorporate fixed up at 500mm, distance. Captive rotating drop forged steel cups secure up to four components at each node point. The lower bottom cup joint position is 80mm, from the base of the standard providing a low root tie positions of 220mm - 420mm, from the top of the standard. This means when one standard is positioned on top of another, the effective distance between adjacent node points (across the standard to standard connection) is maintained at 500mm.

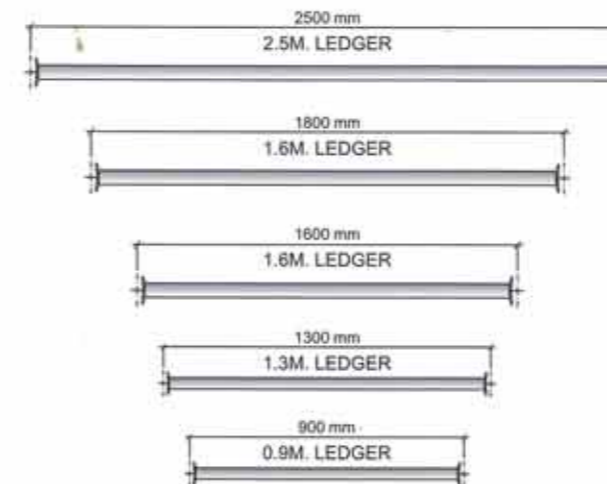
SPECIFICATION:
Finishing: Painted / Galvanized

LENGTH
3.0M
2.5M
2.3M
2.0M
1.8M
1.5M
1.3M
1.0M



SYSTEMS SCAFFOLD

HORIZONTAL LEDGERS

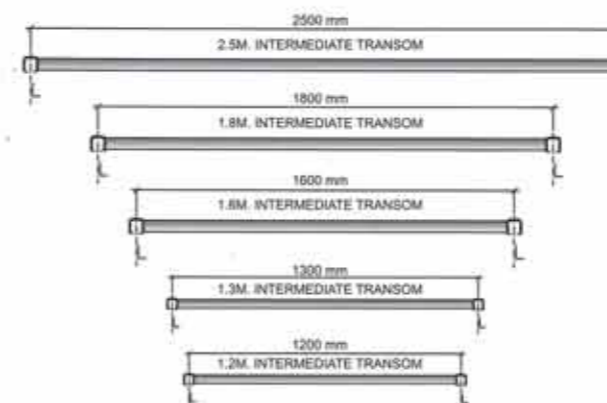


The cuplock ledgers incorporate symmetrical drop forged blade ends for easy and fast erection. All ledgers and transoms are completely interchangeable on both support and access scaffold structures. Ledgers can also be used as handrails and suited in either access or support scaffolding application. To facilitate a variety of different loading and site conditions, a wide range of ledgers are readily available. This means the grid size can be varied to suit most loading conditions.

SPECIFICATION:
Finishing: Painted / Galvanized

LENGTH
2.5M
2.0M
1.8M
1.6M
1.3M
0.9M

INTERMEDIATE TRANSOMS



This component is designed to provide mid bay or end support to the scaffold boards. Steel jaw sections are welded to the transoms end to prevent dislocation and horizontal movement. These jaws simply sit on the adjacent ledgers. When using cuplock system scaffolding erected to form a façade scaffold or when using mobile or static towers, intermediate transoms of increase length are available.

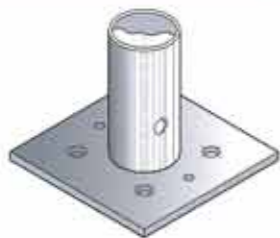
SPECIFICATION:
Finishing: Painted / Galvanized

LENGTH
2.5M
1.8M
1.6M
1.3M
1.2M



SYSTEMS SCAFFOLD

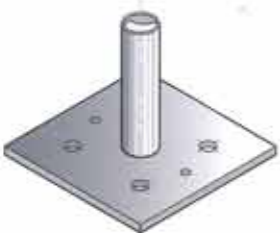
SOCKET BASE PLATE / HEAD PLATE



This base or head plate is used in conjunction with a universal jack. The plate is pre-drilled to accept securing bolts when used with other ancillary components such as dropheads.

SPECIFICATION:
Finishing: Painted / Galvanized

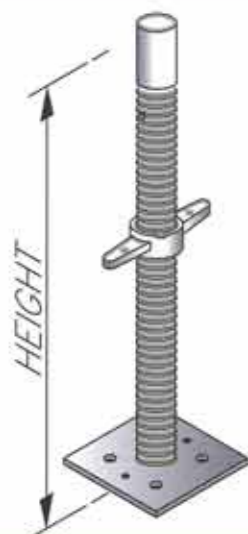
SPIGOT BASE PLATE



This spigot base plate provides a full bearing surface for load distributions from the scaffold standard post.

SPECIFICATION:
Finishing: Painted / Galvanized

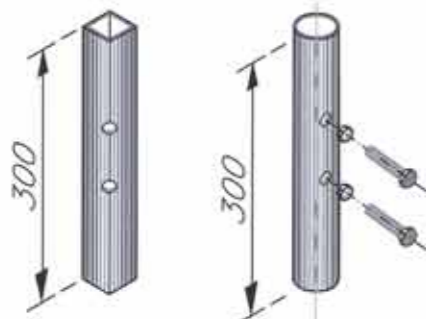
ADJUSTABLE BASE JACK



This is a combination of jack and base plate, it provides maximum adjustment and this robust jack overcome variation in ground level. Base plate is pre-drilled to accept securing bolts or nailed when used.

SPECIFICATION:
Finishing: Painted / Galvanized

LOOSE SPIGOT / SPIGOT PIN



Designed for providing a positive connection between two standards when placed end to end.

SPECIFICATION:
Finishing: Painted / Galvanized



SYSTEMS SCAFFOLD

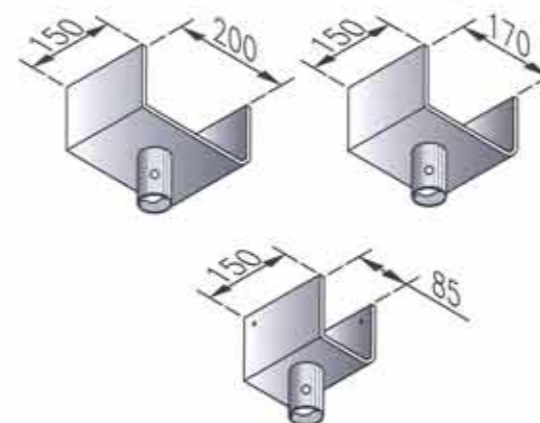
UNIVERSAL JACK STEM



The universal jack provides adjustment respectively. It is used in conjunction with the socket base / head plate fixed forkhead to overcome variations in ground and soffit levels.

SPECIFICATION:
Finishing: Black / Painted / Galvanized

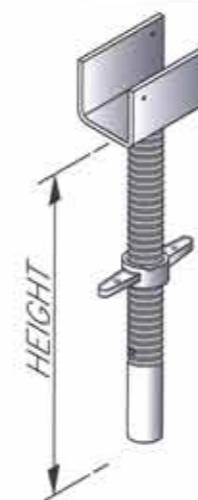
FIXED FORKHEADS



For use of traditional loading application. This component accepts the primary bearer in all light or heavy loaded shoring applications. Typical bearer could include traditional bearer or standard to insert universal jack to give height adjustment.

SPECIFICATION:
Finishing: Painted / Galvanized

ADJUSTABLE FORKHEAD



It has been specifically designed to accept one beam, the twin web or the single web with a plate of 8mm thickness. It is directly placed into the top of standard.

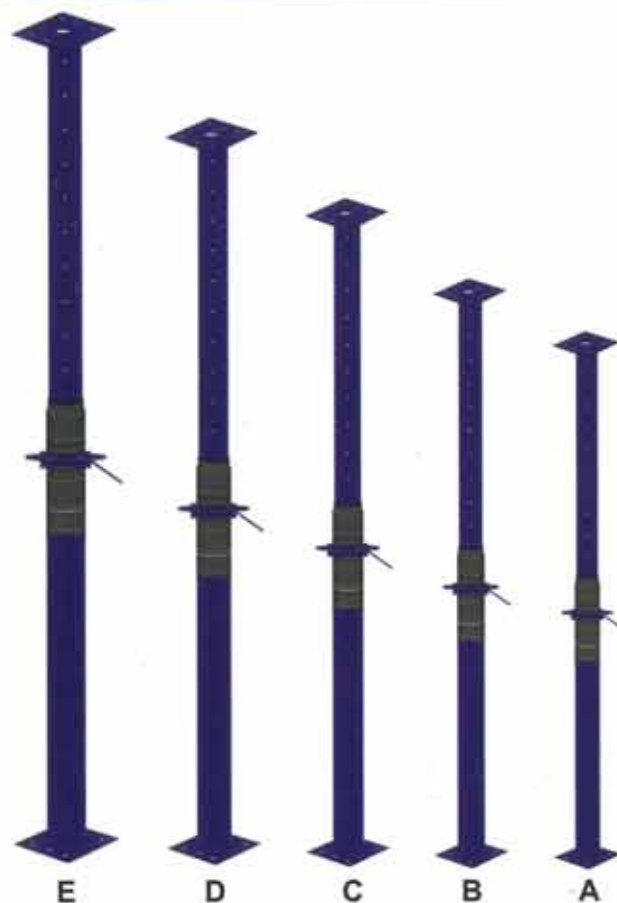
SPECIFICATION:
Finishing: Painted / Galvanized

Ringlock and Kwikstage system scaffold are also available based on client requirement.



PROPS

PROPS



- Our props confirm to the requirement of BS 4074: 1982 and have been tested in accordance with BS 5507 Part 3: 1982.
- Our Props are manufactured from high quality material with painted / galvanized finishing.
- Props are available in 2, 3.2 & 5 mm (thk) tube, other sizes are available on request.
- Our Props can be used on all types of building construction or for any type of use where an adjustable load bearing member is required.
- The high tensile steel pin is located through a slot in the outer section and a hole on the inner section for core adjustment. The cast collar located below the pin provides fine adjustment for leveling or striking.
- The rolled thread ensures no loss of material or strength at this point.

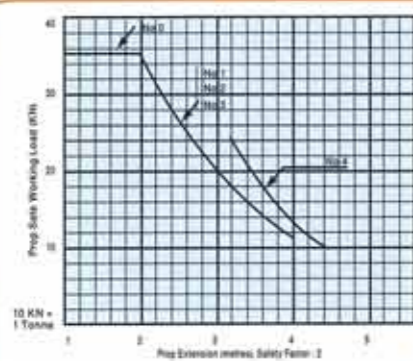
Description	Minimum Height	Maximum Height
Prop A	1.07 M	1.82 M
Prop B	1.75 M	3.95 M
Prop C	1.98 M	3.35 M
Prop D	2.59 M	3.95 M
Prop E	3.20 M	4.87 M

Props should always be plump and loaded concentrically.

Safe working load allows 1.5" out of plump loaded concentrically.

When using the tables, the height of any attachment bolted to the prop must be included in the extension.

Extension	Maximum Allowable out of plump
5M	125mm
4M	100mm
3M	75mm
2M	50mm
1M	25mm



ALUMINIUM LADDERS

SQUARE RUNG SINGLE POLE LADDER



Designed for

Industrial application where access to higher level of height is required.

Features

Available from 2.4mtr to 6.0mtr wide non-slip Heavy Duty Square Rung provide secure footing. 3-stage cold-formed twist proof rung-stile attachment provide extra safety. Heavy ribbed stiles for firm handhold. Ladder feet provide firm grip.

Sturdy Square Rung Design

Square shaped rungs with textured surface provide comfortable stepping and possess higher strength compared to conventional 'O' rung shape design

Rigid and Ergonomically Designed Rung - Stile Assembly

Cold formed neat and rigid rung to stile assemblies eliminates welding or fastener which in turn result in better durability and ergonomic.

Lighter and Stronger Stile (Channel)

Box channel of closed profile design delivers higher resistance against deflection of stile compared to conventional open profile and yet weighs lighter.

High Performance Ladder Shoes

Semi circular shaped rubber shoes with zig-zag profile enables higher adaptation to different work requirements where level of grip is always guaranteed.

PRODUCT SPECIFICATION								
MODEL		ES08SQ	ES10SQ	ES12SQ	ES14SQ	ES16SQ	ES18SQ	ES20SQ
NUMBER OF RUNGS/STEPS		8	10	12	14	16	18	20
LENGTH	MM	2360	2920	3480	4040	4600	5160	5720
	FT	7.74	9.58	11.42	13.26	15.10	16.94	18.78
STEP INTERVAL (S)	MM	280	280	280	280	280	280	280
	FT	0.92	0.92	0.92	0.92	0.92	0.92	0.92
INTERNAL WIDTH (W)	MM	321	321	321	321	321	321	321
	FT	1.05	1.05	1.05	1.05	1.05	1.05	1.05
WEIGHT	KG	5.15	6.35	7.52	8.74	9.93	11.13	12.32
	LBS	11.36	13.99	16.62	19.25	21.88	24.51	27.14





ALUMINIUM LADDERS

SQUARE RUNG DOUBLE EXTENSION LADDER



Designed for

Architectural renovation works and industrial application where access to higher height is in demand.

Features

Available in 2 sections of extended length from 3.9mtr to 11.1mtr wide non-slip heavy duty square rung provide secured footing. 3-stage cold-formed twist proof rung-stile attachment provide extra safety. Heavily ribbed stiles for firm hand-hold. Solid cast aluminum hook provide extra confidence.

PRODUCT SPECIFICATION								
MODEL	ED08SQ	ED10SQ	ED12SQ	ED14SQ	ED16SQ	ED18SQ	ED20SQ	
Number Of Rungs/steps	16	20	24	28	32	36	40	
Overlapped Rungs In Extended Mode	3	3	3	4	4	5	5	
Extended Length (L)	MM	3760	4880	6000	6840	7960	8800	9920
	FT	12.34	16.01	19.69	22.44	26.12	28.87	32.55
Folded Length (L2)	MM	2360	2920	3480	4040	4600	5160	5720
	FT	7.74	9.58	11.42	13.26	15.10	16.94	18.78
Step Interval (S)	MM	280	280	280	280	280	280	280
	FT	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Top Internal Width (W1)	MM	321	321	321	321	321	321	321
	FT	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Base Internal Width (W2)	MM	395	395	395	395	395	395	395
	FT	1.30	1.30	1.30	1.30	1.30	1.30	1.30
WEIGHT	KG	11.03	13.48	15.92	18.37	20.81	23.26	25.70
	LBS	24.32	29.72	35.10	40.50	45.88	51.28	56.66

150 kg

AL
Aluminium



2 IN 1 STEP LADDER



Designed for

Light industrial applications and renovation works. Also general household application where it can be formed into either long straight ladder or self-supporting 'A' type ladder.

Features

Available from 5 to 8 steps. Serrated steps with wide slip resistant provide safety and comfort in ascending or descending. Non-marring shoes with textured shape provide maximum traction with its Zero degree plane profile design.

PRODUCT SPECIFICATION								
MODEL	SL0503	SL0604	SL0705	SL0806	SL0907	SL1008	SL1109	SL1210
NUMBER OF RUNGS/STEPS	5	6	7	8	9	10	11	12
EXTENDED LENGTH (Y)	MM	2326	2926	3526	4126	4726	5326	5926
	FT	7.63	9.60	11.57	13.54	15.51	17.47	19.43
'A' MODE HEIGHT (Y2)	MM	1415	1705	1995	2285	2575	2865	3155
	FT	4.64	5.59	6.55	7.50	8.45	9.40	10.35
STEP INTERVAL (S)	MM	300	300	300	300	300	300	300
	FT	0.98	0.98	0.98	0.98	0.98	0.98	0.98
FOLDED WIDTH (W)	MM	135	135	135	135	135	135	135
	FT	0.44	0.44	0.44	0.44	0.44	0.44	0.44
WEIGHT	KG	5.10	6.20	7.20	8.20	9.30	10.30	11.04
	LBS	11.24	13.67	15.87	18.08	20.50	22.71	24.34

110 kg

AL
Aluminium



ALUMINIUM LADDERS

CERTIFIED STEP LADDER



130 kg

AL
Aluminium



Designed for

General household, light industrial application and renovation works.

Features

Available from 4 to 16 steps. Structural molded High Density Poly. Ethylene top cap serves as convenient tool tray handy for DIY works. Pinch resistant spreader prevents users from pinched fingers and ensures secure locking. Wide 80mm separated steps provide extra safety and comfort. High traction ladder shoes bottom profile are designed to totally grip floor (flat surface) to provide maximum traction.

PRODUCT SPECIFICATION													
MODEL	CS04	CS05	CS06	CS07	CS08	CS09	CS10	CS11	CS12	CS14	CS16		
NUMBER OF RUNGS/STEPS	4	5	6	7	8	9	10	11	12	14	16		
'A' MODE HEIGHT (Y)	MM	1129	1417	1705	1993	2281	2569	2857	3145	3433	4009	4585	
	FT	3.70	4.65	5.59	6.54	7.48	8.43	9.37	10.32	11.26	13.15	15.04	
STEP INTERVAL (S)	MM	300	300	300	300	300	300	300	300	300	300	300	
	FT	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	
FOLDED WIDTH (W)	MM	165	165	165	165	165	165	165	165	165	165	165	
	FT	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	
WEIGHT	KG	4.10	5.10	6.10	7.10	8.10	9.10	10.10	11.10	12.70	14.80	16.90	
	LBS	9.04	11.24	13.45	15.65	17.86	20.06	22.27	24.47	28.00	32.63	37.26	

DOUBLE SIDED LADDER



Designed for

General household application and renovation works

Features

Available from 4 to 16 steps. Access from each side increases builds productivity and Natural anodized body for durability and presentable appearance.

"Corrugated" shape design step adds extra strength for safer ascending and descending.

PRODUCT SPECIFICATION													
MODEL	DS04	DS05	DS06	DS07	DS08	DS09	DS10	DS11	DS12	DS14	DS16		
NUMBER OF RUNGS/STEPS	4	5	6	7	8	9	10	11	12	14	16		
'A' MODE HEIGHT (Y)	MM	985	1235	1485	1734	1990	2225	2475	2725	2975	3475	3975	
	FT	3.23	4.05	4.87	5.69	6.53	7.30	8.12	8.94	9.76	11.40	13.04	
STEP INTERVAL (S)	MM	254	254	254	254	254	254	254	254	254	254	254	
	FT	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	
WEIGHT	KG	3.00	3.80	4.50	5.50	6.00	7.50	7.90	8.80	10.60	11.50	15.30	
	LBS	6.61	8.38	9.92	12.13	13.23	16.53	17.42	19.40	23.37	25.35	33.73	



FULL FIBRE GLASS SINGLE POLE LADDER (NON SPARKING)



150 kg

FRP
Fiberglass



Designed for

Safe use where flammable vapors or combustible residues are present. Also ideal for environments requiring resistance to corrosion such as chemical plants, treatment tanks and water reservoirs.

Features

- Available in 2.4mtr to 6.0mtr
- Weather resistant.
- Corrosion resistant.
- Non-sparking.
- Non-conductive serrated full fibre glass rungs provide secure footing.

Hexagon Rung

Hexagon shaped full fibreglass rungs for surer footing and strength.

Full Fibreglass Stile

Rigid box-section hollow full fibreglass stiles for added strength.

New improved rubber shoe

Non-slip grip with all rounded PVC moulded feet to add stability.

PRODUCT SPECIFICATION								
MODEL	FFG08	FFG10	FFG12	FFG14	FFG16	FFG18	FFG20	
NUMBER OF RUNGS/STEPS	8	10	12	14	16	18	20	
LENGTH (L)	MM	2415	2985	3555	4125	4695	5225	5795
	FT	7.92	9.79	11.66	13.53	15.40	17.14	19.01
STEP INTERVAL (S)	MM	285	285	285	285	285	285	285
	FT	0.94	0.94	0.94	0.94	0.94	0.94	0.94
WEIGHT	KG	6.70	8.28	9.86	11.44	13.02	14.60	16.18
	LBS	14.77	18.25	21.74	25.22	28.70	32.19	35.67



FIBRE GLASS SINGLE POLE LADDER (NON CONDUCTIVE)



150 kg

FRP
Fiberglass



FIBRE GLASS DOUBLE EXTENSION LADDER (NON CONDUCTIVE)



150 kg

FRP
Fiberglass



FIBRE GLASS LADDERS

Designed for

Construction, maintenance and service work. A must for any work in places with electrical hazards.

Features

- Available in 2.4mtr to 6.0mtr
- Weather resistant Non-conductive, ideal to use when electrical hazard exists.
- Wide non-slip heavy duty triangular rung provide secure footing.
- Heavy duty cast aluminium shoes with thick rubber thread.
- Full swivel safety shoes can be used with thread down or in spike.

PRODUCT SPECIFICATION

MODEL	FFS08	FFS10	FFS12	FFS14	FFS16	FFS18	FFS20
NUMBER OF RUNGS/STEPS	8	10	12	14	16	18	20
LENGTH (L)	MM	2467	3037	3607	4177	4747	5317
	FT	8.09	9.96	11.83	13.70	15.57	17.44
STEP INTERVAL (S)	MM	285	285	285	285	285	285
	FT	0.94	0.94	0.94	0.94	0.94	0.94
WEIGHT	KG	7.43	8.92	10.34	11.90	13.39	14.88
	LBS	16.38	19.66	22.80	26.23	29.52	32.80

Designed for

Construction, maintenance and service work. A must for any work in places with electrical hazards.

Features

Available in 4.0mtr to 10.0mtr (Extended length)
Weather resistant, Non-conductive, ideal to use when electrical hazard exists. Wide non-slip heavy duty triangular rung provide secure footing. Heavy duty cast aluminium shoes with thick rubber thread. Full swivel safety shoes can be used with thread down or in spike. Rope-operated roller gliding system, for easy and rapid extension Solid aluminium hook ensure full safety locking and easier method for securing full and base section. Internal guide brackets securely interlock rails External guide brackets to ensure rails interlock securely.

PRODUCT SPECIFICATION

MODEL	FGD08	FGD10	FGD12	FGD14	FGD16	FGD18	FGD20
NUMBER OF RUNGS/STEPS	8	10	12	14	16	18	20
OVERLAPPED RUNGS IN EXTENDED MODE	3	3	3	4	4	5	5
EXTENDED LENGTH (L)	MM	3992	5132	5987	7127	7982	9122
	FT	13.10	16.84	19.64	23.38	26.19	29.93
FOLDED LENGTH (L2)	MM	2567	3137	3707	4277	4847	5417
	FT	8.42	10.29	12.16	14.03	15.90	17.77
STEP INTERVAL (S)	MM	285	285	285	285	285	285
	FT	0.94	0.94	0.94	0.94	0.94	0.94
WEIGHT	KG	15.40	18.33	21.25	24.17	27.10	30.02
	LBS	33.95	40.41	46.85	53.29	59.74	66.18



ORANGE & WOODEN LADDERS

SCAFFOLDING ORANGE PAINTED STEEL LADDER



Designed for

Construction, maintenance and oil and gas industries. Scaffolding orange painted steel ladders are available from 3mtr to 8mtr length. It comes with rubber shoe to provide high level of grip and safety. Oversize rubber feet at top and bottom allow use of either way up. It is made from high grade steel and ribbed rung for comfortable stepping and provides higher strength. This particular orange steel ladder comes with orange epoxy coating for high visibility rust protection.

SPECIFICATION

Vertical frame rung/ Stile: 62mm x 25mm x 1.2mm
Rung size: 22mm x 22mm x 1.1mm
Ladder Width: 408mm
Length available: 3.0, 4.0, 5.0, 6.0, 7.0 and 8.0Mtr
Standard: BS EN 131 Part 2: 1993
Finishing: Powder Coating / Pre-Galvanized

PRODUCT SPECIFICATION					
LENGTH	L	POLE	RUNG	RUNGS	WEIGHT
3M	2997.2MM	62X25X1.2	22X22X1.1	10	11KG
4M	4013.2MM	62X25X1.2	22X22X1.1	13	15.5KG
5M	5003.8MM	62X25X1.5	22X22X1.1	16	22KG
6M	5994.4MM	62X25X1.5	22X22X1.1	20	27KG
7M	7010.4MM	62X25X1.5	22X22X1.1	23	32KG
8M	8000MM	62X25X1.5	22X22X1.1	26	36KG

WOODEN LADDERS



Designed for

Construction, maintenance and service work. A must for any work in places with electrical hazards.

Features

- Wooden ladders are made in accordance to BS 1129
- These ladders are made from carefully selected prime spruce logs.
- Each ladder is processed through a modern water based vacuum coating system, to give an aesthetic, environmentally friendly and professional finish.
- Available from 3Mtr. to 10Mtr.

Origin: United Kingdom

LENGTHS (MTR)	NO. OF RUNG	WEIGHT (KG)
3.0	11	14.5
4.0	15	16.5
5.0	19	20.0
6.0	23	22.5
7.0	27	27.0
8.0	31	38.0
9.0	35	41.0
10.0	39	46.0



STEEL LADDER / ROPE LADDER

SCAFFOLDING STEEL LADDER



Scaffolding steel ladder comes with square rung and available from 2.0, 3.0, 4.0, 6.0mtr length. It comes with rubber shoe to provide high level of grip and safety. It is made from high grade steel and square rung provides comfortable stepping and poses higher strength.

SPECIFICATION

Standard: BS EN131

Finishing: Painted / Galvanized

MANILA ROPE LADDER



Manila Rope Ladders are considered to be "Low Hazard" and by analogy with relaxed materials, They are unlikely to cause harmful effects under normal conditions of use.

SPECIFICATIONS:

Weight: 220G per Meter

Tensile Strength: 2.40 Tons

Rope Color: Natural Manila Color

Rung Dimension: Round O 1/4 x 18 Long x Width 1/2

Material Type: Hardwood

Length of Ladder: Customized

Rung To Rung Distance: 1 Feet

Assembly Method: Carbon Reinforced Steel

: Whipped at each rung position.



MOBILE ALUMINIUM TOWER

SINGLE WIDTH MOBILE TOWER



This tower systems are fast and easy to erect and ideal for maintenance work indoor and outdoor. If there is narrow space for placing a mobile tower, this mobile tower offers an excellent solution with its 90cm wide frames. The maximum working height for interior and exterior work is 10M. It is also equipped with construction manual and labels. The maximum load per platform is 225kgs and for the entire tower is 600kgs including tower self weight.

SPECIFICATION

Width available : 0.78M
Mainframe height : 1.5M and 2M
Length available : 1.58M, 1.78M, 2.08M and 2.55M.

TECHNICAL FEATURE:

- Adjustable leg up to 30cm
- Working Platform 0.78M x 1.78M
- Capacity – 200kg/sq.M.
- Rung Distance – 50 cm
- Ladder Rung Distance: 28 cm.
- Aluminium Alloy – 6061 T6
- Frame Tube Thickness – 2.5mm
- Platform – Anti-slip Plywood with Aluminium Frame
- Number of rungs in a ladder: 7 step ladder in each 2M frame

DOUBLE WIDTH MOBILE TOWER



It is the most popular mobile scaffolding tower, available in 1.39M wide frames. This system has numerous applications for both interior and exterior use. The maximum working height for interior work is 14M and exterior work is 10M. Equal length braces, stabilizers, platforms, wheel legs and toe board can be interchanged between single width mobile scaffolding tower. It is also equipped with construction manual and labels. The maximum load per platform is 250kgs and for the entire tower is 750kgs including tower self weight.

SPECIFICATION

Width available : 1.20M, 1.39M, 1.60M and 2.00M.
Mainframe height : 1.5M, 2M.
Length available : 1.78M, 2.08M, 2.55M and 2.98M.

TECHNICAL FEATURE:

- Adjustable leg up to 30cm
- Working Platform (139 x 255) cm
- Capacity – 200kg / sq M
- Rung Distance – 50 cm
- Ladder Rung Distance – 28 cm
- Aluminium Alloy – 6061 T6
- Frame Tube Thickness – 2.5mm
- Platform – Anti-slip Plywood with Aluminium Frame
- Number of rungs in a ladder – 7 Step ladder in each 2m frame

ACCESSORIES



Horizontal (Blue)

Diagonal (Yellow)

Stabilizer Bar

200mm Heavy Duty Caster Wheel with Jack

4 Rung Span Frame

4 Rung Ladder Frame

Fixed deck (Wooden)

Trapdoor (Wooden)

Toe Board (Wooden)



FOLDABLE PODIUM & FOLDING TOWER

FOLDABLE PODIUM



This work platform provides a fast, simple and cost effective solution for low level access for all types of contractors such as roofing, shop fitting, electrical, sign writing, painting and more and offer platform level 1.0Mtr and 1.3Mtr. It is compact to store and can be transported in a small van or standard elevator lift. Designed to conform to the working at height regulation, this podium has fully enclosed work platforms.

FEATURES

- Self latching gate for added safety and security while working.
- 4 Braked Casters for rigidity when in use.
- Casters are bolted to unit for a firm fixed connection.
- Tough design to withstand the rigors of site use.
- Designed to be pushed through most standard doorways.
- The optional stabilizers deliver additional stability.

SPECIFICATION

Safe working load: 150Kg
Platform height: 1.0Mtr
Width: 75cm
Length: 145cm
Step distance: 30 cm

FOLDING TOWER



It can be easily transported in small van and ready to use in seconds. It has a base measurement of (78 x 178) cm. the wheels with anti slip surface are particularly suited for interior works. Folding tower can be driven through standard door opening without being dismantled. The platform height is adjustable and this makes easy working at different height. The hinge system makes it easy to fold and unfold, at the same time easy to assemble. This low level access tower system can be combined with span 33 frames and components to gain work height up to 8.0Mtr. Ideal for one man use, unfold the unit, fit platform and start to work. The folding tower is equipped with construction manual and labels. It is both lightweight and robust.

SPECIFICATION

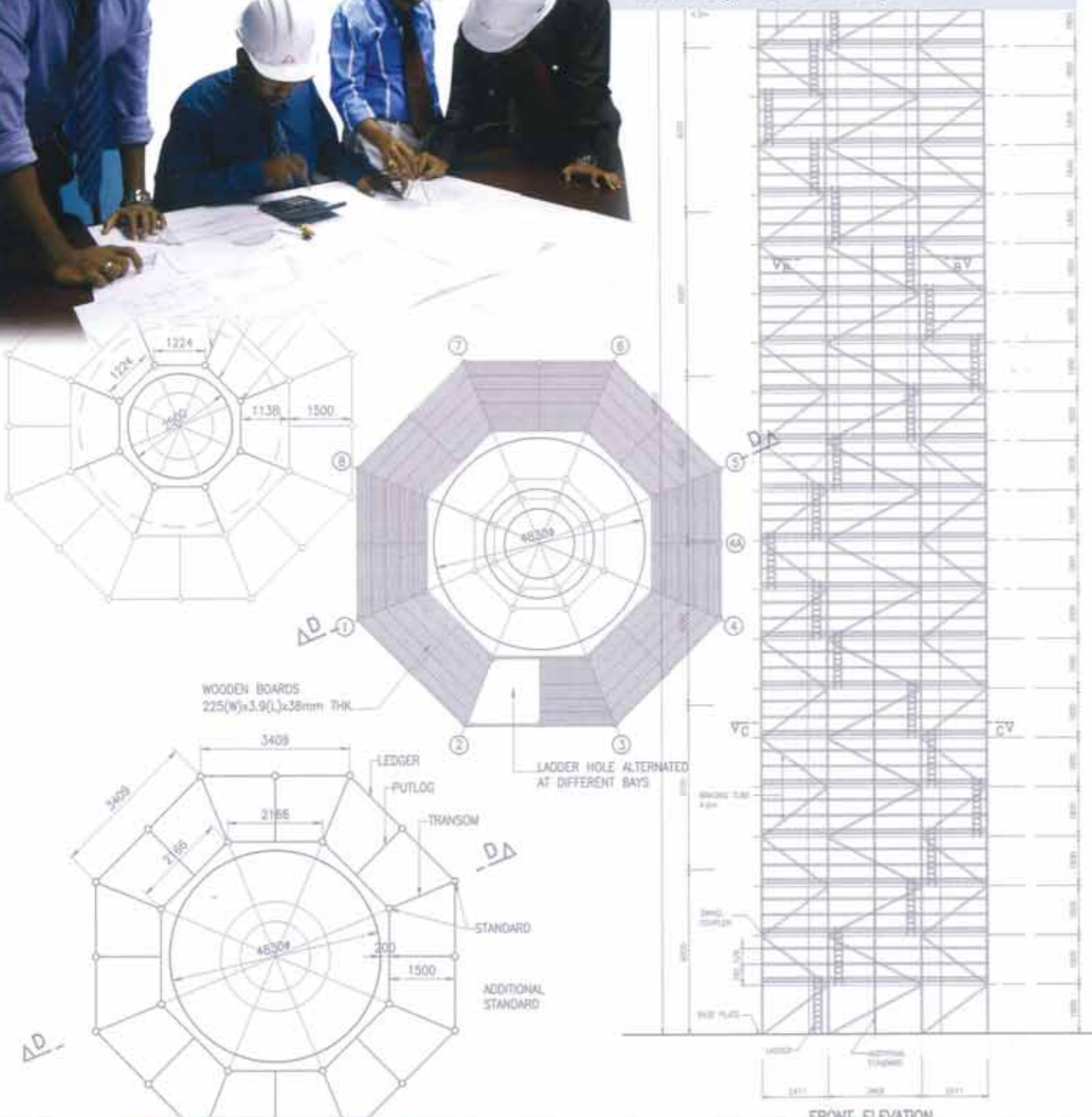
Working Platform: 78 x 178 cm
Aluminium Alloy: 6061 T6
Wheel: Dual Pedal Brake
Platform: Anti slip Plywood with Aluminium Frame
Rung Distance: 33cm
Safe working load: 150Kg
Platform Height: 108cm
Total height: 230cm
Width: 78cm
Length: 178cm



ENGINEERING SOLUTIONS



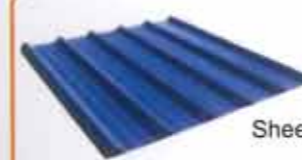
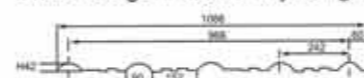
We provide professional scaffold design engineering drawings to wide range of companies & sectors including main contractors, sub contractors and Oil & Gas Industry. Our designs are cost effective, comprehensive and complies to relevant statutory requirements. All our drawings are plotted by well experienced, professional design engineers from Malaysia.



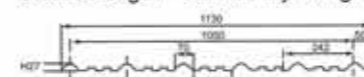
WAVE TRAPEZIUM/STEP/CORRUGATED



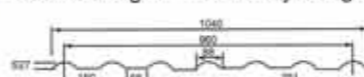
5 WAVE TRAPEZIUM H42
Effective Width - 966mm
Affective Width - 1066mm
Sheet Length - Cut to Any Length



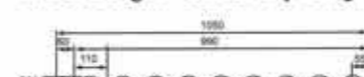
6 WAVE TRAPEZIUM H27
Effective Width - 1050mm
Affective Width - 1130mm
Sheet Length - Cut to Any Length



7 WAVE STEP S27
Effective Width - 1040mm
Affective Width - 960mm
Sheet Length - Cut to Any Length



9 WAVE CORRUGATED C32
Effective Width - 1050mm
Affective Width - 990mm
Sheet Length - Cut to Any Length



Property	Results	Standard
Tensile Strength: Coloured 3 layers	27 - 31MPa	ISO 527
Flexural Strength: Coloured 3 layers	45 - 55Mpa	ISO 178
Elongation	145%	ASTM D638-03
Impact Strength (IZOD)	125.2 J/m	ASTM D256-06
Impact Strength (Charpy)	50 - 60 J/m2	ISO 179



VPN Euroline™ - is a modern rigid three layer polyvinyl chloride (UPVC) roofing material. The advanced technology of manufacturing ensures superior quality and performance of the roofing product. VPN Euroline™ roofing materials thickness range :1.5 - 3mm.

VPN Euroline™ Roofing sheets have attractive design and appearance, possess wide range of advantageous properties and have affordable price. VPN Euroline™ is an optimum choice for roofing and cladding in civil and industrial construction.

MATERIAL STRUCTURE



INSTALLATION NOTES

Conventional methods of installation are used: Self-taping screw fixing; 5 screws per square meter; one wave side overlap with joint away from prevailing wind; horizontal overlap - 300mm; preferred roof slope - greater than 5°; corrosion resistant screws and washers are preferred.

Profile	Purlin Span
H27	0.8M
H42	1.2M
S27	0.5M - 0.75M
C32	1.0M

Choice of Colours



ADVANTAGES & PROPERTIES (Thickness 2-MM)

- Light weight - 3.5kg/m2
- Chemical resistance - VPN Euroline™ is steady against the action of acids, alkalis, salts and solvents
- Excellent thermal insulation - heat conductivity - 0.104 W/m°C
- Sound Insulation - Excellent protection from the sound of rain, hail and other external noises
- Wide range of usage temperatures 40CK to 7oC
- Frost resistance - Withstands of 100 freezing / thawing cycles
- Colorfastness - 8 points (BWS)
- Weather resistance - Used in extreme weather conditions (i.e. storms, hurricanes, hail)
- Durability - Material is guaranteed for its performance for the period of not less than 10 years. The conclusion is based upon intense ageing test conducted in POLYCERT, Russian Academy of Sciences (State Standard G.O.S.T. 30973-2002 and G.O.S.T. 9.708-83)
- Fire resistance - A non-combustible material (ASTM D635-06). Class 1 group of construction materials according to BS 476 part 7
- Elasticity and flexibility - Allows construction of arch type roofs and curvilinear fences with minimum radius of 6m
- Installation efficiency - Overlapping losses do not exceed 7%. Material is not sensitive to scratches, blow impact and falling from heights, it can be easily cut, drilled and sawn.
- Skylights - Available in transparent / translucent form of matching profile.



STEEL FABRICATION

STEEL FABRICATION WORKS



Various steel fabrication works including steel pipe clamps, steel police barriers, handrails, steel pallets, platforms tower, diesel tanks and others are fabricated based on client's specific requirements and drawing.

SPECIFICATION:

Finishing: Painted / Powder Coated / Galvanized

