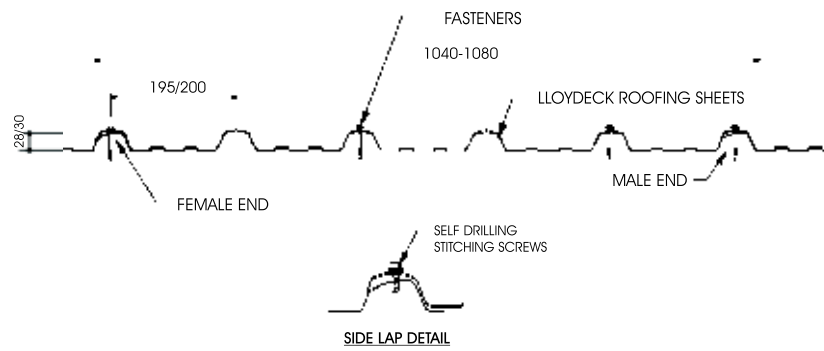
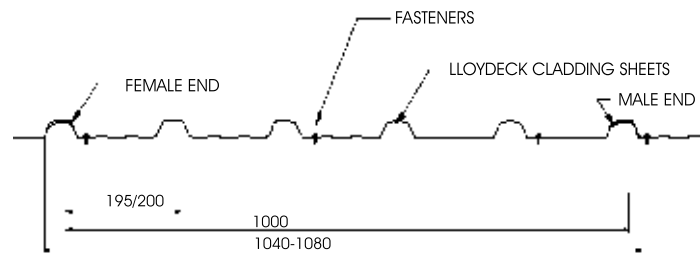


FIXING PROCEDURE FOR ROOFING



Roofing sheets are crest fixed using No.12-14 x 55mm long fasteners (self-drill) for purlin thickness upto 3mm thick.

FIXING PROCEDURE FOR CLADDING

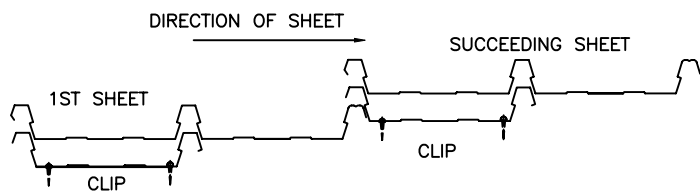


For wall cladding, the sheets are valley fixed using No.12-24 x 25mm long fasteners self-drill for purlin up to 3mm thick. Panels need fasteners of 50mm length.

For purlins above 4mm thickness, a pilot hole maybe needed to fix self drilling & self taping fasteners. Fasteners are fixed on crest/valley at purlin locations. For side laps and flashing, suggested spacing of stitch screws is approx. 500mm.

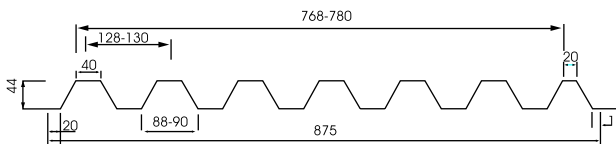
FIXING PROCEDURE FOR LLOYD KLIPLOCK

Lloyd Kliplock is fixed with galvanised special clips with 120 gsm zinc coating. These clips are fixed to the purlins with 25mm self drilling wafer head fasteners and the Lloyd Kliplock sheets are then pressed over the clips to get locked.

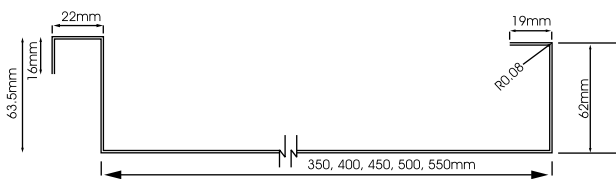


| | |
|--------------------------------------|--------------------------------------|
| Lloyddeck, Lloydtile | Lloyd Superdeck |
| Length : 1000mm to 12000mm | Length : 1000mm to 12000mm |
| Width : 1040 & 1080mm | Width : 875mm |
| Cover width : 1000mm | Cover width : 768 to 780mm |
| Lloyd Kliplock | Lloyd Standing Seam |
| Length : 1000mm to 17000mm | Length : 1000mm to 17000mm |
| Width : 550mm/460mm | Width : 378mm to 632mm |
| Cover width : 500mm/436mm | Cover width : 350mm to 550mm |
| Site fabricated sheet of any length. | Site fabricated sheet of any length. |

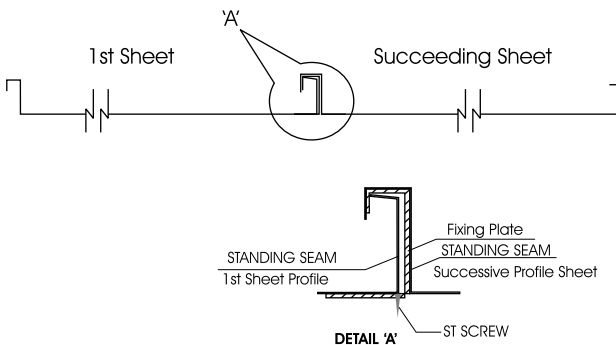
LLOYD SUPERDECK PROFILE



LLOYD STANDING SEAM PROFILE



FIXING DETAIL OF STANDING SEAM



Lloyd SSR is fixed to a unique concealed clip which has two distinct parts, the lower fixed part is fastened to the structure (Purlin) & the upper movable part attaches to the roofing panels. The panels and the top part of the concealed clip are zipped together either by mechanical seaming or specially designed mechanical locking. This fixing arrangement allows roof movement due to temperature variation.

Lloyd Insulations (India) Limited
(An ISO 9001, ISO 14001 & OHSAS 18001 Certified Organisation)

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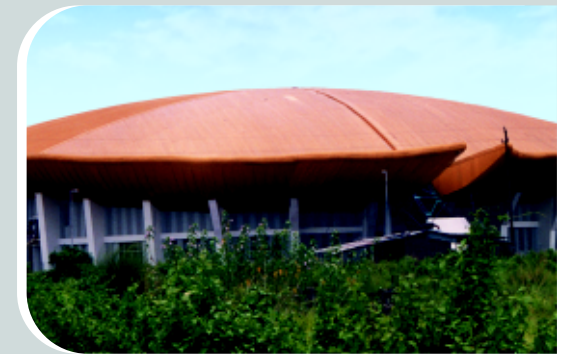


Think Energy Conservation
Think Environment Protection
Think Lloyd Insulations

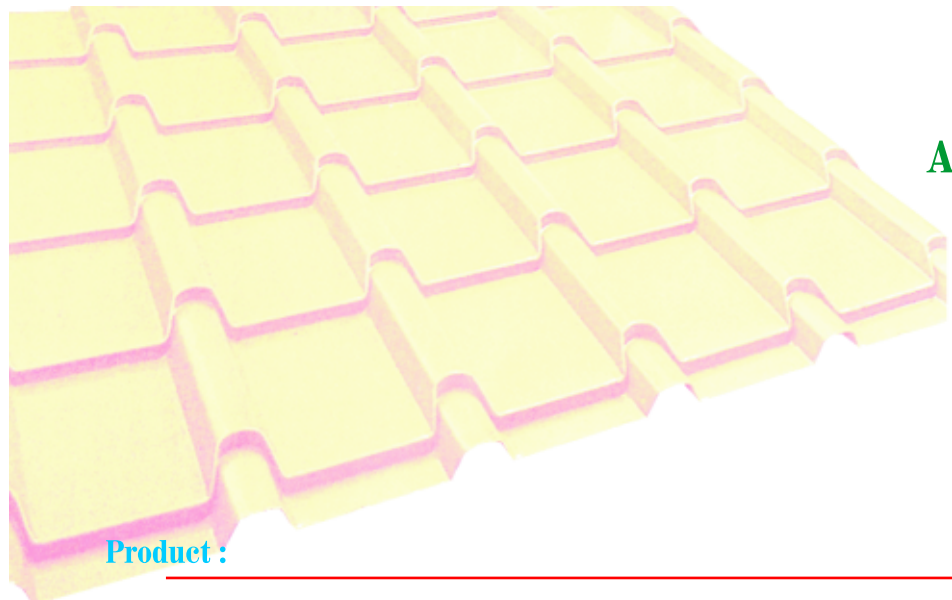
Vidya - January 2011



Roofing and Wall Cladding systems



- Lloydtile
- Lloyd Superdeck
- Lloyd Kliplock
- Lloyd Standing Seam Roof
- Lloyd Light Groove
- Lloydpanel-30
- Lloyddeck Crimp Curved Sections



A NOVEL CONCEPT FOR ARCHITECTURAL & INDUSTRIAL ROOFING & WALL CLADDING

Product :

Lloyddeck and Lloydtile are profile sheetings developed to provide scientific solutions for roof and side walls of industrial as well as commercial buildings. It is provided with a precisely engineered "Rib and Flute" design to ensure wide spanning and quick recovery after being subjected to excessive loads.

Lloydtile, in addition to Superdeck, offers new dimensions to architectural aesthetics and frees the designer of monotonous standard Trapezoidal design.

Lloyd Kliplock & Lloyd Standing Seam are laterally trapezoidal profiles with wide spanning and excellent water shedding capacities. The bold and broad flat outline makes a strong and striking appearance.

Lloyd Superdeck is a high depth roofing metaldeck profile.

Lloyd Light Groove is a lightly grooved metal sheet that can be used for plain facings.

Availability:

Lloyddeck, Superdeck, Lloydtile, Lloyd Light Groove, Lloydkliplock & Standing Seam profiles are available in following standard finishes :-

- Pre-painted zincalume / galvalume steel with Super Polyester, Silicon Polyester or Fluoropolymer (PVF₂) coating.
- Pre-painted galvanized steel with polyester coating (SMP/RMP).
- Bare zincalume / galvalume and galvanized finishes.

Profile:

Lloyddeck & Lloydtile Sheets are available in a profile depth of 28-30mm at 195-200mm pitch and for Superdeck profile in a profile depth of 44mm and 130mm pitch. Lloydtile has steps of 200-300mm with height of 12-15mm. Lloyd Kliplock has a profile depth of 41-47mm at 218-250mm pitch. Lloyd Standing Seam has a profile depth of 62mm at 350-550mm pitch. In between 2 profiles, there are two small ribs in all the above profiles.

BASE ZINCALUME / GALVALUME STEEL

Zincalume / galvalume steel is a zinc aluminium alloy coated steel offering high corrosion resistance.

This alloy coating comprises of 55% aluminium, 43% zinc and 1.5% silicon. This coating offers a superior barrier protection against coastal atmosphere conditions. The coating class is AZ-150 as per AS : 1397, which means 150 gms/m² minimum coating mass total of both sides.

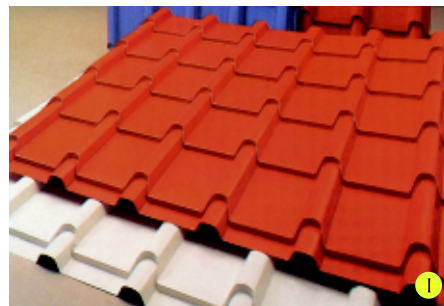
Zincalume / galvalume steel are available in tensile strength of 300, 345 & 550 MPa.

GALVANISED STEEL

Galvanized steel comprises of galvanized zinc coating over mild steel of minimum coating mass 175 gms/m² as per IS : 277 and tensile strength of min. 240 MPa.

STANDARD CONFORMANCE

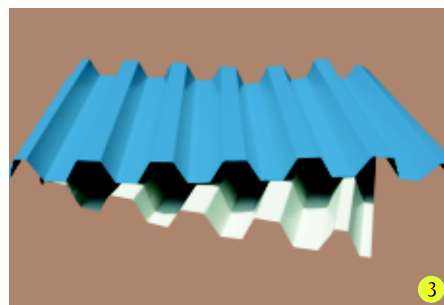
AS : 2728, AS 1397
IS : 14246, IS : 513, IS : 277



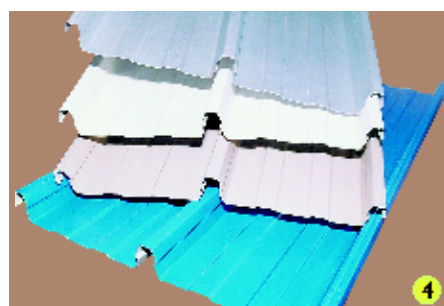
LLOYDTILE



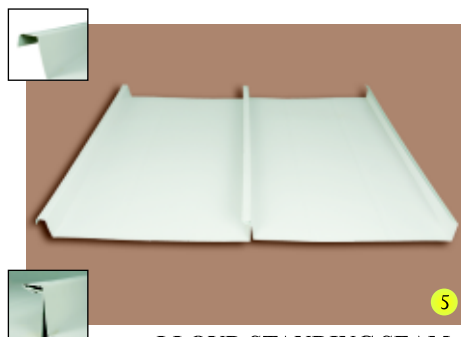
LLOYDECK



LLOYD SUPERDECK



LLOYD KLIPLOCK



LLOYD STANDING SEAM

PAINTING

Oven-baked colour coating systems of following types are available.

a) **Zincalume Steel:** Super Polyester XRW, Silicon modified polyester or fluoropolymer 20 microns (exposed side) & neutral alkyd back coat of 5 microns over primer coat of 5 microns on both side.

b) **Galvanized Steel:** Polyester top coat of 20 microns over primer of 5 microns (exposed side) & alkyd back coat of 5 microns over primer coat of 5 microns.

Salient Features:

- Lloyddeck, Lloyd Superdeck, Lloydtile, Lloyd Standing Seam and Lloyd Kliplock, by virtue of the scientific profile & proper joining ensure water tight roof.
- Wider spans ensures lesser joints as compared to conventional roofing systems.
- Lloydtile provides a heritage finish.
- Lloyd Kliplock & Standing Seam offers puncture less roofing & cladding. It can be site profiled to any length.
- The product is backed by the company's 50 Years hand on experience in providing turnkey roofing and wall cladding solutions to the user industry.

Insulated roofing & wall cladding

Product :

Lloyd Panel 30 is the answer to the Architectural problem of providing high insulation value to the roofing and wall in air conditioning and insulated industrial / commercial buildings.

It provides a one-step solution in the form of a pre-fabricated sandwiched polyurethane Panel which ensures exceptional strength since it is a composite system comprising of Lloyddeck on one side, linear tray on the inner face and injected CFC free, closed cell high density polyurethane in between.

Lloyddeck Crimp Curved Sections

The crimp-curved sheets are available in concave and convex shapes to provide aesthetically pleasing looks to buildings. Lloyddeck crimp curved sheets are available in polyester/SMP coated galvanized steel or super polyester/SMP coated zincalume /galvalume steel.

Lloyddeck crimp curved sheets are having a minimum radius of curvature of 550mm on inside of the sheet. The minimum length of sheets at either end of a curve is 180mm minimum. The sheets can be curved upto 3 quarters of a full circle (for convex and concave), to facilitate proper side overlap, a semi circle curve is only recommended.

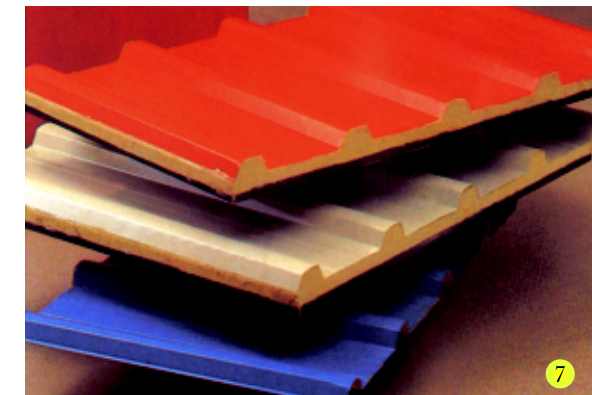
The maximum length of straight sheet that can be curved at its center, is approximately 12 metres, of maximum height 2.3 metres at the centre. The maximum recommended straight distance between two curves shall be 6000mm.

Application Method:

Fixing: Lloyddeck, Super deck, Lloydtile and Lloydpanel-30 are fixed on to purlins / subgirts with joints overlapped and fastened using hot dip zinc coated self drilling hexagonal washer head fasteners. Stainless steel fasteners are available as optional.



LLOYD LIGHT GROOVE

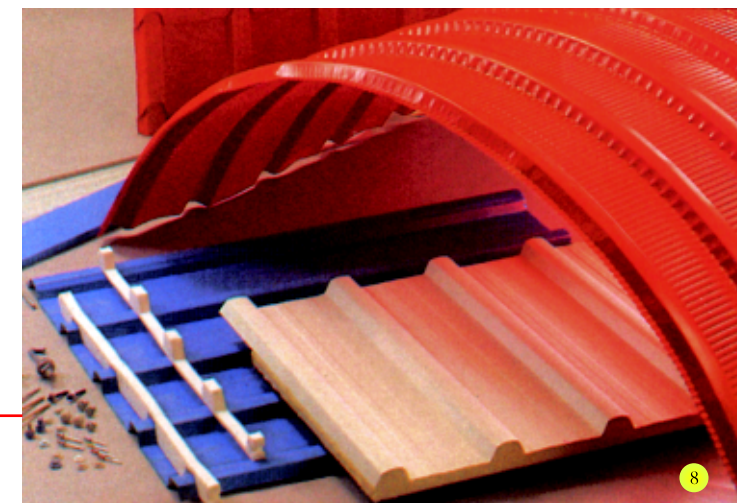


LLOYDPANEL 30

Physical Data

| | |
|---|---|
| Sheeting Material : Weathering Side Inner Side | Lloyddeck profile sheeting Liner trays slightly ribbed |
| Sheeting Finish ** : (both sides) | Colour coated metal sheets |
| Core : | 30mm high efficiency Polyurethane foam of 45 Kg/m ³ density. |
| K value of PUF : | 0.023 W/mK at 10°C mean temp. |
| Thermal Transmittance : | 0.67 W/m ² K |
| Panel Size : | 800mm x 3000mm to 6000mm |

** Inner side sheetings are notched with sides raised upwards by bending for ensuring sufficient strength.



LLOYDARCH