

# EVERWOOD WPC-Wall Cladding Strata Cladding



# Installation Guide

# **EVERLASTING IMPRESSIONS**

ALUMINUM JOIST EWD50X25

#### ALUMINUM 'L' CLAMP 38X25X2MM THK

FISCHER - N SERIES N8/60,N8/80,N8/120, SXR10/80

CORROSHIELD SELF DRILLING SCREWS







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# FLUTED CLADDING ACCESSORIES

#### FLUTED-EWD190X24

TRIM-EWD57X10



# FLUTED PLANKS & TRIMS

7X25 / 10X38 CSK

#### TOOLS AND SAFETY EQUIPMENTS





CORDLESS DRILL



#### HEAVY DUTY HAMMER DRILL





CIRCULAR SAW











#### SPIRIT LEVEL L-SQUARE LINE THREAD













### GENERAL INSTALLATION INSTRUCTIONS

Key points to be followed before and during the installation process:

- 1. Store the Everwood WPC material in a clean area on a flat surface with support for the entire plank. Do not provide intermediate support that can lead to the profiles bending. Planks should not be stored in direct sunlight and not in the proximity of fuels other flammable materials or electrical main boxes.
- 2. Before Installation, please carefully check the material notifying any damage, manufacturing defects, extreme colour variations, etc. Complaints will not be accepted once profiles are cut, sized or after installation.
- 3. Please always check you project / shop drawings in respect to site conditions,to verify that the received material is adequate to complete the project undertaken.
- 4. It is recommended to acclimatize the material to the site temperature for atleast 48 hours before installation Recommended site temperature at the time of installation should be above 20°C degrees.
- 5. Everwood WPC profiles should be handled with care to prevent any damage before or during the installation. Profiles should be lifted along their whole length and not slid on each other, which may cause scratches. Use clean hands free from dirt, oil or grease while handling Everwood WPC profiles.
- 6. Everwood WPC profiles contain a majority of wood content and therefore are susceptible to expansion both in linear & lateral directions. Dimensional shrinkage and expansion is an inherent characteristic of wood composites, and it is therefore highly recommended that the profiles are not installed other than as specified. The linear thermal expansion of Everwood WPC profiles is 1.00 mm dimensional change per meter for every 10° C degrees increase or decrease in temperature. Please ensure to leave adequate expansion gaps for thermal dimensional changes.
- 7. Please ensure other mechanical, civil, landscape work carried out near your Everwood WPC installation does not accumulate any dirt, dust or other debris on or between the profiles.Do not use adhesives, stickers or other material that will stain and immediately remove paint, concrete or other residues immediately.
- 8. Please visit <u>www.everwoodwpc.com</u> for care and maintenance instruction of your Everwood WPC profiles and installations.
- 9. Everwood WPC warranty will be rendered null and void as a result of improper handling incorrect installation or wrong use of the product. Please ask for our warranty terms if required to better understand the limitations of the warranty.
- 10.WARNING: It is to be noted that failure to strictly comply with all criteria of recommended expansion gaps, spans, fixed / floating points for application of Everwood profiles can cause misalignment of joints and even deformation of the profiles itself.

# IMPORTANT NOTES

To ensure that you get the best out of using Everwood wpc products, it is highly recommended to use only the highest quality / grade of fittings & fixtures while installing our products. Everwood only specifies industry leading brands of other components as specified below:

#### 1. Aluminium : Virgin extruded T5 / T6 hardness

2. Fixtures : Everwood specified SS304 / pa grade clips and fixtures or anti-corrosive aluminum fixtures

3. Fastners : Bosch / fischer / equivalent brands of anti-corrosive expansion anchors & fastners.

4. Screws : Corrosheild or equivalent countersunk, waferhead anti-corrosive srews please note that warranty of installations does not hold valid if deviations are made from installation material specifications as outlined by Eeverwood wpc

5. Mild steel : All ms tube or other sections used for Everwood wpc profiles including for pergolas & fins re-inforcement inserts and fixtures are to be of isi grade steel, mandatorily treated with 2 coats of pu anti-corrosive primer and 2 coats of pu paint (only for exposed use).



MAKE SURE THAT THE SURFACE AREA TO BE CLADDED IS FLAT AND STABLE FROM LOOSE MORTAR OR DEBRIS.





THE CONCRETE OR BLOCK WALL SHOULD BE AT LEAST 100MM THICK AND PLASTERED WITH A LEVELLED FINISH. PLASTER SURFACE THICKNESS MUST BE AT LEASET 25MM THICK AND ALSO FINISHED LEVEL TO BE TRUE IN VERTICAL TO A PLUMB LEVEL. IF THE WALL STRUCTURE IS MADE OF HOLLOW BLOCKS PLEASE EVALUATE THE THICKNESS OF THE BLOCK SIDE WALL AND PLASTER THICKNESS WHILE CHOOSING THE REQUIRED FASTENERS.



#### JOIST FIXING DETAIL



THE MAXIMUM RECOMMENDED SPACE / SPAN BETWEEN JOIST ROWS DEPENDS ON THE ANGLE AT WHICH YOU INTEND TO LAY THE BOARDS IN RELATION TO THE JOISTS, BUT SHOULD NEVER EXCEED 350MM CENTER TO CENTER. REFER THE DIAGRAM HERE AND USE 10X16 WH SD SCREWS TO CONNECT THE ALUMINUM JOIST TO THE 'L' CLAMP AND USE 8/80MM ANCHOR FASTENERS TO CONNECT 'L' CLAMP TO WALL AND CONCRETE EXPANSION ANCHORS ON BEAMS AND SLABS. ALWAYS USE DOUBLE JOISTS AT BOARD JOINTS.



#### START BOARD FIXING DETAIL



TRIM THE TONGUE OF THE FIRST BOARD AS REQUIRED AND SHOWN HERE. PLACE THE FIRST BOARD ON THE ALIMINIUM



FRAMEWORK LEAVING A 6-8MM EXPANSION GAP FROM THE WALL / FLOOR OR CEILING. AFTER DRILLING PILOT HOLES 4MM DIAMETER LARGER THAN THE SELF DRILLING SCREWS FASTEN THE BOARDS TO THE FRAMEWORK WITH 7/25 SELF TAPPING SCREWS BETWEEN THE FIRST & SECOND FLUTE. SECURE THE BOARD TO THE ALUMINUM FRAMEWORK WITH A SCREW AT EVERY JOIST THROUGH A 4MM LARGER DIAMETER PILOT HOLE AS SHOWN.

#### LATERAL EXPANSION GAP TAPE DETAIL







BEFORE FIXING THE SECOND BOARD YOU MUST PASTE THE 4MM WIDTH X 25MM LENGTH X 2MM THICK DOUBLE SIDE FOAM TAPE ONTO THE SECOND BOARD TONGUE (PLEASE REFER THE DIAGRAM). FOR 2440MM LENGTH BOARD USE 5 PIECES OF FOAM TAPE AND INSERT THE SECOND BOARD TONGUE ONTO THE FIRST BOARD GROOVE FIRMLY. FOR SHORTER LENGTH OF BOARDS PLACE A FOAM TAPE AT 600 - 800 MM INTERVALS.



#### SECOND AND FURTHER BOARD FIXING DETAIL



#### MITER JOINT DETAIL



AT WALL CORNERS, JAMBS AND SILLS, ANGLE CUT THE BOARDS AT 45 DEGREES AS SHOWN IN THE DIAGRAM AND FIX THEM TO THE OUTER JOISTS OF THE ALUMINUM FRAME WITH 7X25 SELF DRILLIING SCREWS THROUGH PILOT HOLES DRILLED 4 MM WIDER THAN THE SCREW DIAMETER. IT IS NOT NECESSARY TO LEAVE AN EXPANSION GAP AT THE MITER JOINT.



#### EDGE TRIM FIXING DETAIL



#### USE WPC OR ALUMINUM TRIMS TO COMPLETE

THE SIDES AND TOP OF THE CLADDING TO COVER THE HOLLOW CAVITY & EDGES OF THE COMPLETED CLADDING. USE 7X38 SD SCREWS TO FASTEN THE TRIMS ONTO THE JOIST AT INTERVALS NOT EXCEEDING 400 MM FROM SCREW TO SCREW





- HAVING TAKEN DELIVERY OF YOUR BOARDS / PROFILES, WE RECOMMEND YOU ALLOW THEM A DAY TO ADJUST TO THE EXTERIOR AMBIENT TEMPERATURE AND CONDITIONS BEFORE STARTING WORK.
- 2. YOUR COMPOSITE BOARDS AND PROFILES CAN BE WORKED WITH NORMAL WOODWORKING TOOLS AND RECOMMEND USING A WOOD SAW WITH A FINE-TOOTH BLADE TO CUT BOARDS TO SIZE.
- WHEN CUTTING, CARE SHOULD BE TAKEN TO ENSURE THE BOARDS ARE PROPER SUPPORTED.
  ALWAYS FINISH BURRS OR UNFINISHED CUT EDGES WITH SAND PAPER TO SMOOTHEN SURFACES AND EDGES.
- WPC EXPANDS AND CONTRACTS WITH TEMPERATURE CHANGE. PLEASE ENSURE TO MAINTAIN 6-8 MM GAPS FROM FLOORS WALLS, CEILING AND BETWEEN PANELS TO ALLOW FOR DIMENSIONAL CHANGES.
- 6. ALWAYS USE ANTI-CORROSIVE HARDWARS, FIXTURES AND FASTNERS WHILE INSTALLING



# DONT'S

 WE DO NOT RECOMMEND INSTALLING WPC IN VERY HOT OR COLD WEATHER. DO NOT USE CHISELS OR OTHER SHARP TOOLS THAT REQUIRE IMPACT WHILE WORKING WITH WPC, ALWAYS USE A SAW.

DO NOT USE NAILS TO FASTEN WPC. ALWAYS USE SELF DRILLING SCREWS.
 NEVER OVERTIGHTEN FASTNERS OR SCREWS WHILE INSTALLING WPC.
 DO NOT USE STRONG CORROSSIVE CHEMICALS OR BLEACH TO CLEAN WPC.