



## INSTALLATION GUIDELINES

Highly specialised extruded composites profiles made from renewable natural fibres and thermoset resins is a replacement to natural wood without cutting trees. **Tipwood®** looks and feels like wood, with added advantages of being stronger, termite proof, fungus proof, flame retardant and water resistant. In addition to being eco-friendly and conserving the environment, it is predominantly made from Jute fibre which is grown abundantly in India. **Tipwood®** process gives excellent design capabilities in the form of solid and hollow structures, ribbed sections, male–female joints with virtually no wastages. **Tipwood®** profiles are also structural in nature and address today's needs of having load bearing profiles to support heavier structures on top.

**Tipwood®** is the ideal substitute to wood, especially for exterior applications.

## TABLE OF CONTENTS

SR. NO.	SECTION	PAGE NO.
1.	Pre-Requisites Before Installation	4
2.	Acceptance of Tipwood® Profiles	5
3.	Handling and Storage	5
4.	Nails, Screws and Adhesive	6
5.	Optional Guidelines while using screws	7
6.	Supporting Tipwood® Profiles	8
7.	B-Plugs to seal/close the open ends	8
8.	C-Fixing Tipwood® Profiles upon metal frame	9
9.	D-Snap off layers of Tipwood® Profile to house hinges	9
10.	Painting	9
11.	Surface Treatment	10
12.	Cleaning	11
13.	General	11
14.	Guidelines for Vertical Installations	12
15.	Guidelines for Horizontal Installations	12
16.	Table	13
17.	Installation steps for Flooring/ Decking	21
18.	Installation steps for Building Elevation/Façade/Gates/ etc	24
19.	Installation steps for Terrace Railing.	26

These are general guidelines, not limited to storage, handling, installation, fabrication and painting. These should be vetted and confirmed by the **buyer**, which includes and/or represents the dealer, distributor, agent, user, client, architect, manager, interior designer, structural consultant, fabricator, contractor, carpenter, installer, builder, etc.

## PRE-REQUISITES BEFORE INSTALLATION

### Before starting any installation procedure

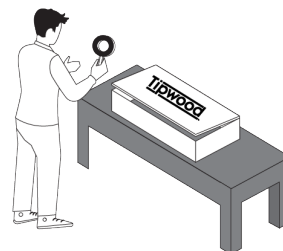
1. It is important that **buyer** must go through this entire manual to know the best way to prepare for: accepting Tipwood® profiles at the time of delivery, Storage, Handling, Installation, Fabrication and Painting details etc.
2. The **buyer** should provide exact measurements from the site and not just from the initial drawings so the Tipwood® Proforma Invoice (P.I.) mentions the correct sizes needed. The repercussions of not following this procedure will rest with the **buyer**.
3. Deviating from any of the given guidelines and/or recommendations in this manual as well as improper installation will result in voiding the product warranty.
4. Any guidelines not covered and found necessary to be included herein; **buyer** should contact Tipco Industries Pvt. Ltd. on +91-9375833736 Monday – Friday, 10am – 5pm IST.
5. We offer a limited manufacturer's warranty. This means we are liable for all defects that are a clear fault of the manufacturing process, up to 1 year from the invoice date. Warranty does not cover any incorrect claims related to profiles or sizes ordered. Tipwood being a composite having more than 60% natural content, will always have certain shade and colour variations. These are a part of the characteristics and general aesthetics of the product. No replacements or refunds will be offered or issued after the **Buyer** has accepted Tipwood® Profiles in good condition by returning the duly signed copy of LR (Lorry Receipt).



**You may contact the manufacturer for further clarifications needed, if any.**

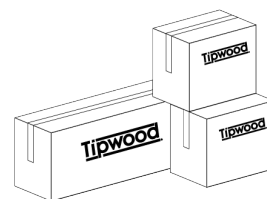
## ACCEPTANCE OF TIPWOOD® PROFILES ONCE RECEIVED

6. Make sure that all material has been received in good condition and is free from visible defects or damages. In case the Tipwood® Profiles are received with defects or in shortage etc. all such details should be written on the LR (Lorry Receipt) copy along with the name and mobile number of the delivery personnel and mandatorily taking his signature/acknowledgement of the specified damages mentioned therein.
7. Contact and inform your supplier immediately of such complaints. You should email/WhatsApp the details of damage (include pictures), or visual impairments (include pictures) and also send him the said LR copy as aforesaid.
8. Once the Tipwood® Profiles are accepted and the LR Copy returned to the transporter, it will be deemed to have been inspected and quality accepted by the **buyer**. Thereafter, no such or other complaints will be the supplier's responsibility and no replacement or refunds will be offered or issued thereafter.



## HANDLING AND STORAGE

9. After inspection, store all the Tipwood® Profiles in original packing until you use it. If storage is on a live construction site, use extra precautions while storing & handling in a clean and dry area. Prevent cement, wet/dry concrete and dust to come near Tipwood® Profiles while the construction is on.
10. If material is not stored and/or handled using these guidelines in the correct manner and/or is damaged during installation, it will not be the responsibility of the supplier. To prevent such a situation, the **buyer** must get all the installation plans, drawings, diagrams, and specifications etc, vetted before the start of installation. Also share the same with the supplier, well in advance.



11. It is strongly recommended that Tipwood® Profiles should be installed after `all wet concrete, cement, plastering and painting, gypsum work etc (will hereon be referred as `construction materials') is completed. If you use Tipwood® Profiles during any of these processes:
  - a) You do so at your own risk and responsibility and
  - b) It is your responsibility to keep it covered and protected at all times
  - c) If any surface/portion of Tipwood® Profile comes in contact with any of the `construction materials', it has to be "immediately" cleaned and attended to.

## NAILS, SCREWS AND ADHESIVE

12. Only use headless nails to fix Tipwood® with wood of other Tipwood® Profiles. If using a nail gun, test it on a sample first. Nails are recommended for either fixing two thin profiles or a thin profile with another thick profile/wood.
13. Nails and screws should not be used close to the edge of the profile, but be used towards the center.
14. Either plain screws, gypsum screws, galvanized SS screws or black SS screws can be used depending on the desired effect.
15. It is recommended to keep screws exposed to maintain a neat and clean final surface. If hiding an exposed screw is necessary, then use:
  - a) Brown coloured wax
  - b) Tipwood® Shavings/Powder mixed with Adhesive
  - c) Plated Rivets

**Note: For flooring/decking, do not hide screws.**
16. Recommended adhesive (Araldite® adhesive taken as an example)
  - d) Adhesive Epoxy Resin (only from blue tube); or
  - e) Adhesive (both tubes in suggested proportions: Epoxy Resin + Hardener)



17. In case adhesive is exposed, it may turn white during rains. In this case, it is recommended that a suitable protective coating should be used for long term protection such as a water based ICA coating for exteriors or a MRF coating.

## OPTIONAL GUIDELINES WHILE USING SCREWS (Use recommended products only)

18. You can use screws dipped in adhesive for better strength.
19. If required, you could make a very small/tiny indentation using a nail / hammer upon the point where the profile needs to be screwed.
20. Apply adhesive upon the entire:
  - a) Surface (where the small/tiny indentation was made) on both the Tipwood® Profiles to be joined together.
  - b) Screw until the CSK/Pan head.
21. Carefully insert the screw within the specified indentation on each Tipwood® Profile and use the screwdriver as you normally would.
22. Tightly join both the Tipwood® Profiles using Masking Tape, covering the inserted screw.
23. Proceed to the next Tipwood® Profile to be similarly joined using a screw and the Masking Tape.
24. Additionally use plastic anchors, if the screw is not firmly tight in position (due to varying density of the natural fibre).
25. Apply a thin coat of construction grade instant adhesive if needed.
26. All Masking Tapes can be removed after a few hours of application.





## SUPPORTING TIPWOOD® PROFILES

27. Hollow Tipwood® Profiles may need support internally ( especially in areas where there are corner joints, fixtures, hinges etc) depending on the application. This will need inputs from your designer/architect/installer /structural fabricator/carpenter etc., as illustrated :-

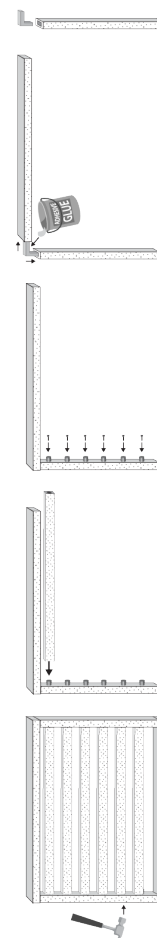
As seen in the adjoining picture, a waterproof ply is cut in the desired shape/angle which becomes the internal support.

Adhesive is applied over all the surfaces of the internal support and internal surface of the Tipwood® profile and then it is slid into the **Door Frame Profile** to create the frame.

Thereafter the **Tipwood® Hollow Strip 50x25mm** (in this case) should be placed so that its cavity envelopes the stud/anchor as screwed onto the Door Frame Profile. All the studs/anchors are enveloped by the Tipwood® Profiles from both the ends.

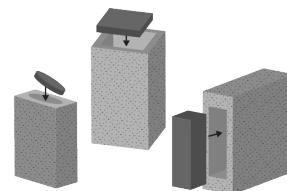
Thereafter, If required, carefully hammer from the top so that the cavity fully envelopes each anchor.

Suitably adjust the door at the installation point by lightly hammering wooden plugs between the ceiling and the door frame, thereby letting the doors remaining held in place for a couple of hours, allowing the adhesive to set. Thereafter, the wooden plugs can be removed, and the necessary conventional installation processes may continue.



## B-PLUGS TO SEAL / CLOSE THE OPEN ENDS

28. 6mm Tipwood® sheet can be used as plugs to seal or close hollow profiles. Such plugs will have to be procured and cut as directed by the **buyer**. Use recommended adhesives to join any two Tipwood® Profiles together or to paste two edges of Tipwood® together.
29. For any external cladding, only profiles thicker than 6mm are recommended.



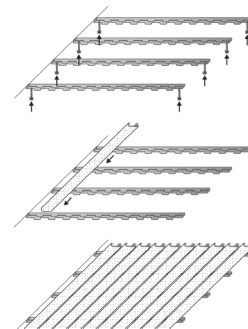


## C-FIXING TIPWOOD® PROFILES UPON METAL FRAME

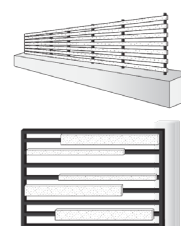
30. For best results, the appropriate aluminium sections must be initially fixed to the ceiling using anchor fasteners/screws.

Thereafter, the Tipwood® profiles could be slid into each aluminium section.

It is not recommended to screw/paste Tipwood® profiles lesser than 10mm directly onto the ceiling.



31. Tipwood® Profiles can be screwed onto existing frames of MS/GI. A few illustrations are given as a reference.



## D-SNAP OFF LAYERS OF TIPWOOD® PROFILE TO HOUSE HINGES

32. Taking an example using **Tipwood® Door Frame Profile 85mmx31mm**

Gently chip or snap off few layers from the said Tipwood® Profile to create a smooth surface for screwing the Hinge, thereby concealing it.



## PAINTING

33. We suggest Tipwood® could remain unpainted to preserve the natural look. However, if required, Tipwood® can be painted by adhering to the following Steps:-

- Scraping – Use 120 no water paper scraper for Scraping Tipwood® profile
- Primer- Any primer suitable for wood can be used for Tipwood® Profile
- Putty- Birla or any equivalent putty can be used for Tipwood® profile.
- Sanding – Use 220 no water paper scrapper for finishing the surface.
- Painting- Apply 3 coats of any paint suitable for wood or plastics surface for Tipwood® profile.

## SURFACE TREATMENT

34. Surface Coating should be done only if the buyer so desires. Companies such as ICA Pidilite, MRF, Asian Paints, Nippon Paint (India), Kupsa Coatings, etc. provide the guidelines, coating materials and provide suggestions on how to get the coating works executed by their authorized representatives. Each of these companies have their own proprietary formulated impregnating agents coat / top coats, whose application procedures could differ. We therefore recommend that you follow the guidelines & suggestions of the coating material manufacturer and thoroughly test their coating on a **Tipwood®** sample and confirm its suitability for all long-term and short-term performance before you proceed ahead. Polish using Melamine and/or Varnish must be avoided. Tipco does not take any responsibility or provide any guarantee on durability, aesthetics, life expectancy and performance of any coating on **Tipwood®** profiles.
35. Broadly, the procedure for water base exterior (brush able), as an example only, using ready to use transparent base/top coat could be carried out by adhering to the following steps:-
- a) Sanding the substrate
  - b) Apply impregnating agent coat mixed with specified stain/solvent
  - c) Apply 1st coat of transparent base/top coat
  - d) Apply 2nd coat of transparent base/top coat
  - e) Apply 3rd coat of transparent base/top coat
36. Use of spray guns is another possible alternate, the procedure can be slightly different.

## CLEANING

37. Do not use detergents or washing powder or any other chemical for cleaning. Use dry or damp cloth if needed. Do not use brush or any abrasive on Tipwood® for cleaning or for any other purpose.

## GENERAL

38. White spots, blemishes, lightening or darkening etc, could rarely but randomly appear over a period of time due to atmospheric changes, hardness in local water, improper handling during installation or storage, improper care and/or installation, etc.
39. Install horizontal supports while using Tipwood® for all vertical installations. Install vertical supports while using Tipwood® for all horizontal installations.
40. The Tipwood® profiles could be fixed onto any structure or onto another Tipwood® profile etc. in any orientation. The support systems required could vary in case of differing orientations. You will need to contact us to know exact details in each such case.

## GUIDELINIES FOR VERTICAL INSTALLATIONS

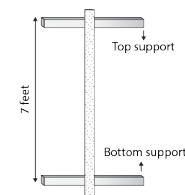
41. Horizontal supports needed during installation of Facades, Claddings and Vertical Installations.

Horizontal supports for all vertical installations are needed, maintaining the suggested gap for proper installation and durability.

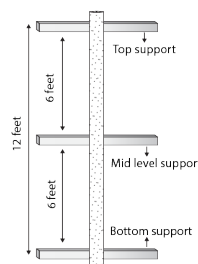
Additional horizontal supports can always be added to reduce the suggested gap solely as per the discretion of **buyer** and their structural engineer. Keeping a greater gap than suggested in Table 1, Column B is **not recommended**.

Using Vertical installation of Louver profile 150x35 as an example)

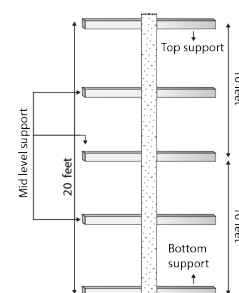
Horizontal supports are required at the: Bottom  
Top  
Mid-levels



Vertical Installation of 7 feet height



Vertical Installation of 12 feet height



Vertical Installation of 20 feet height

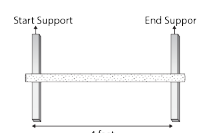
## GUIDELINIES FOR HORIZONTAL INSTALLATIONS

42. Vertical supports needed during installation of Facades, Claddings and Horizontal Installations.

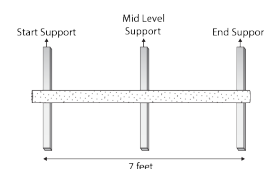
Vertical supports for all horizontal installations are needed, maintaining the suggested gap for proper installation and durability. Additional vertical supports can always be added to reduce the suggested gap solely as per the discretion of **buyer** and their structural engineer. Keeping a greater gap than suggested in Table 1, Column A is **not recommended**.

Using Horizontal installation of Louver profile 150x35 as an example) Vertical supports are required at the: Start

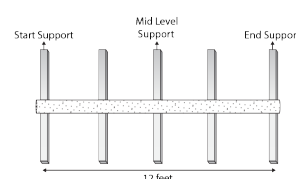
End  
Mid-levels



Horizontal Installation of 4 feet height



Horizontal Installation of 7 feet height

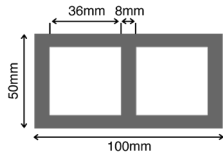
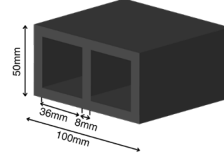
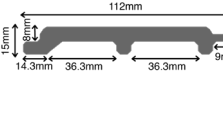
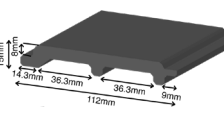
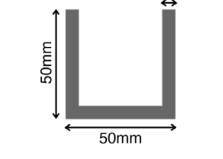
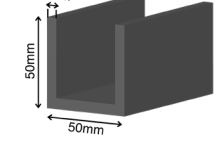
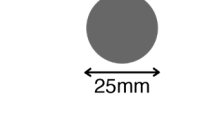
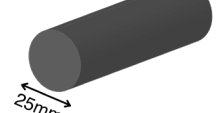
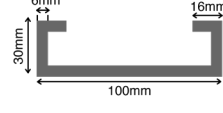
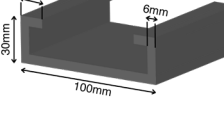
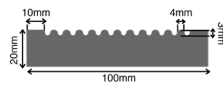
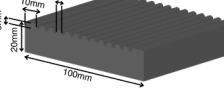
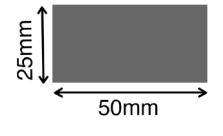
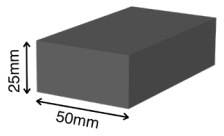


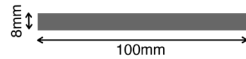
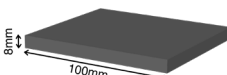
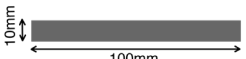



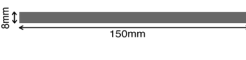

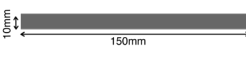

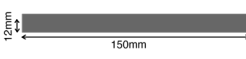

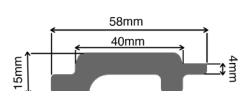
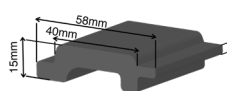
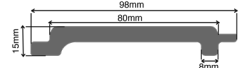
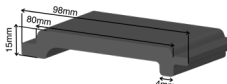
Horizontal Installation of 12 feet height

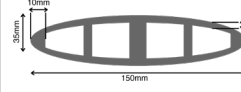
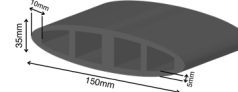
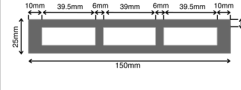
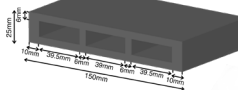
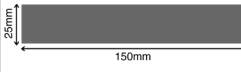

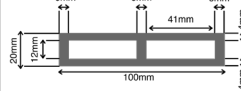
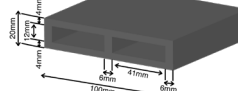
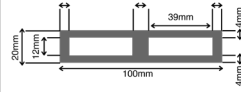
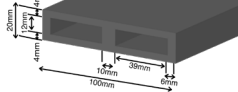
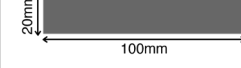

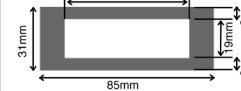
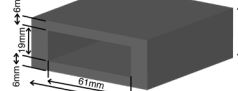
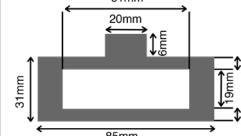
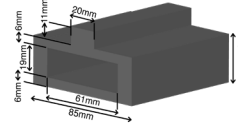
Support systems suggested for both vertical and horizontal installations here is based on our experience and intended applications. The buyer should invariably discuss the support system for Tipwood® for each application with the Tipwood® executive /dealer.

## 43. Table 1

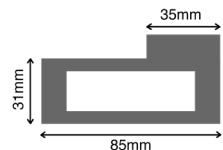
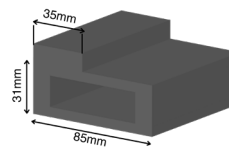
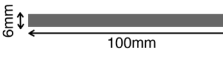

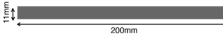

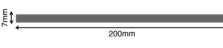

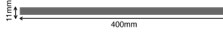

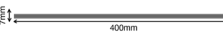

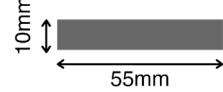
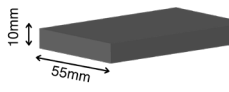
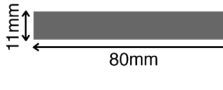
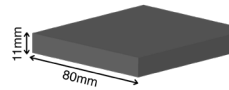
- A. Vertical Supports for all Horizontal Installations needed (in feet)  
B. Horizontal Supports for all Vertical Installations needed (in feet)

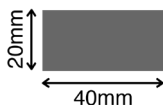
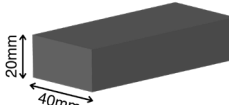
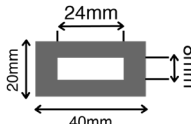
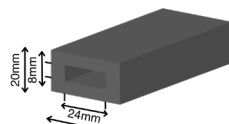
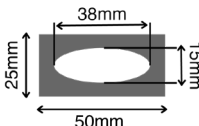
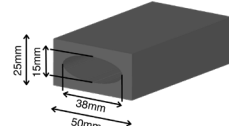
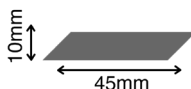
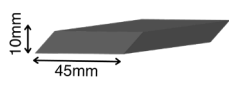
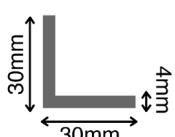
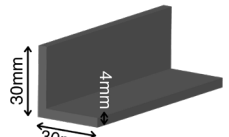
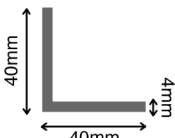
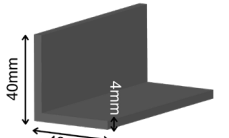


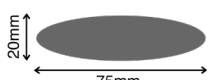

Sr. No.	Profile Description	A Vertical Support for Horizontal Installations	B Horizontal Support for Vertical Installations	Product Dimensions	Product Dimensions	Kg./ Mtr
		Minimum Support Distance (in feet)				
1.	Hollow Box Profile 100 x 50mm  <i>Product Code: 4400000661</i>	6	8			2.1
2.	Cladding Profile 112 x 15mm  <i>Product Code: 4400000664</i>	N.A.	N.A.			0.98
3.	C Channel Profile 50 x 50 x 6mm  <i>Product Code: 4400000660</i>	N.A.	N.A.			0.7
4.	Rod Profile 25mm diameter  <i>Product Code: 4400000668</i>	1	1			0.48
5.	C Channel Profile 100 x 30 x 16mm  <i>Product Code: 4400000670</i>	N.A.	N.A.			0.79
6.	Serrated Profile 100 x 20mm  <i>Product Code: 4400000671</i>	5	6			1.79
7.	Strip 50 x 25mm  <i>Product Code: 4400000685</i>	3	5			1.25

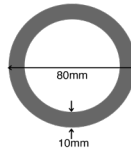
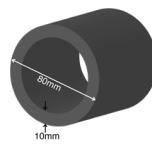
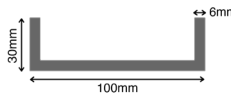
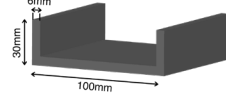
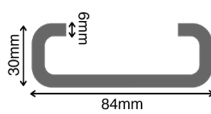
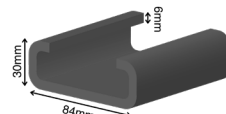
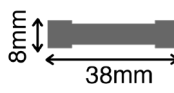
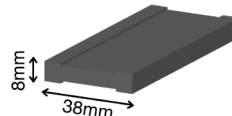

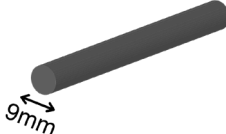

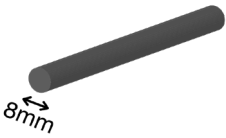

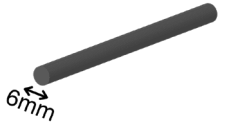
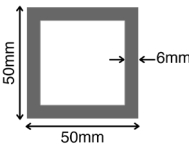
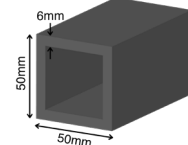
Sr. No.	Profile Description	A Vertical Support for Horizontal Installations	B Horizontal Support for Vertical Installations	Product Dimensions	Product Dimensions	Kg./ Mtr
		Minimum Support Distance (in feet)				
8.	Sheet Profile 100 x 8mm  Product Code: 4400000680	1	1			0.8
9.	Sheet Profile 100 x 10mm  Product Code: 4400000681	2	2			0.972
10.	Sheet Profile 100 x 12mm  Product Code: 4400000689	3	3			1.15
11.	Sheet Profile 150 x 8mm  Product Code: 4400000688	1	1			1.15
12.	Sheet Profile 150 x 10mm  Product Code: 4400000687	2	2			1.45
13.	Sheet Profile 150 x 12mm  Product Code: 4400000686	3	3			1.75
14.	Cladding Profile 58 x 15mm  Product Code: 4400000690	N.A.	N.A.			0.41
15.	Cladding Profile 98 x 15mm  Product Code: 4400000691	N.A.	N.A.			0.79

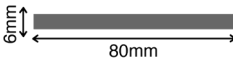
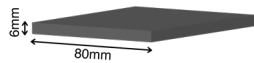
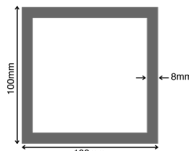
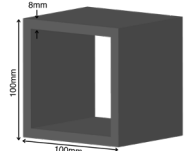
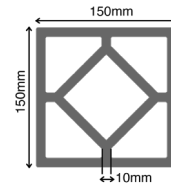
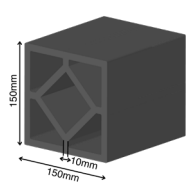
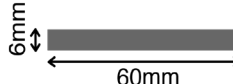
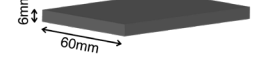
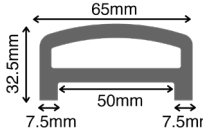
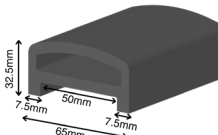
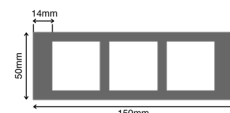
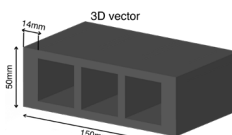
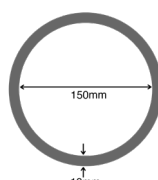
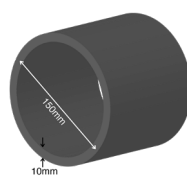
Sr. No.	Profile Description	A Vertical Support for Horizontal Installations	B Horizontal Support for Vertical Installations	Product Dimensions	Product Dimensions	Kg./ Mtr
		Minimum Support Distance (in feet)				
16.	Louver 150 x 35mm  <i>Product Code: 4400000051</i>	4	7			1.61
17.	Hollow Box 150 x 25mm  <i>Product Code: 4400000010</i>	4	8			2.04
18.	Solid Box 150 x 25mm  <i>Product Code: 4400000011</i>	5	9			3.83
19.	Door Profile 100 x 20mm  <i>Product Code: 4400000040</i>	3	3			0.84
20.	Door Profile 100 x 20 x 6mm  <i>Product Code: 4400000054</i>	4	4			1.21
21.	Door Profile Solid 100 x 20mm  <i>Product Code: 4400000031</i>	5	6			1.9
22.	Door Profile 85 x 31mm  <i>Product Code: 4400000265</i>	5	6			1.6
23.	Door Frame Profile 85 x 31mm  <i>Product Code: 4400000025</i>	5	6			1.81



Sr. No.	Profile Description	A Vertical Support for Horizontal Installations	B Horizontal Support for Vertical Installations	Product Dimensions	Product Dimensions	Kg./ Mtr
		Minimum Support Distance (in feet)				
24.	Single Door Frame 85 x 31mm  Product Code: 4400000044	5	6			1.91
25.	Sheet Profile 100 x 6mm  Product Code: 4400000052	1.5	1.5			0.6
26.	Sheet Profile 200 x 11mm  Product Code: 4400000020	3	3			1.85
27.	Sheet Profile 200 x 7mm  Product Code: 4400000029	3	3			1.34
28.	Sheet Profile 400 x 11mm  Product Code: 4400000034	3	3			4.46
29.	Sheet Profile 400 x 7mm  Product Code: 4400000035	3	3			2.73
30.	Strip 55 x 10mm  Product Code: 4400000583	2	3			0.53
31.	Strip Profile 80 x 11mm  Product Code: 4400000053	3	3			0.74

Sr. No.	Profile Description	A Vertical Support for Horizontal Installations	B Horizontal Support for Vertical Installations	Product Dimensions	Product Dimensions	Kg./ Mtr
		Minimum Support Distance (in feet)				
32.	Strip 40 x 20mm  <i>Product Code: 440000027</i>	4	4			0.81
33.	Hollow Strip Profile 40 x 20mm  <i>Product Code: 440000055</i>	2.5	2.5			0.47
34.	Hollow Strip 50 x 25mm  <i>Product Code: 440000048</i>	3	5			0.69
35.	Strip 45 x 10mm  <i>Product Code: 440000047</i>	2	2			0.45
36.	L-Angle 30 x 30 x 4mm  <i>Product Code: 440000024</i>	N.A.	N.A.			0.21
37.	L-Angle 40 x 40 x 4mm  <i>Product Code: 440000045</i>	N.A.	N.A.			0.26
38.	Louver 75 x 20mm  <i>Product Code: 440000005</i>	3	3			0.46
39.	Solid Louver 75 x 20mm  <i>Product Code: 440000043</i>	3.5	5			1.08

Sr. No.	Profile Description	A Vertical Support for Horizontal Installations	B Horizontal Support for Vertical Installations	Product Dimensions	Product Dimensions	Kg./ Mtr
		Minimum Support Distance (in feet)				
40.	Round Pipe 80 x 10mm  <i>Product Code: 4400000036</i>	4	8			1.64
41.	C-Channel 100 x 30 x 6mm  <i>Product Code: 4400000582</i>	3	4			0.8
42.	C-Channel 84 x 30 x 6mm  <i>Product Code: 4400000012</i>	3	4			0.71
43.	I-Beam Profile 38 x 6mm  <i>Product Code: 4400000590</i>	N.A.	N.A.			0.22
44.	Rod Profile 9mm diameter  <i>Product Code: 4400000007</i>	1	1			0.08
45.	Rod Profile 8mm diameter  <i>Product Code: 4400000026</i>	1	1			0.07
46.	Rod Profile 6mm diameter  <i>Product Code: 4400000667</i>	1	1			0.04
47.	Square Profile 50 x 50 x 6mm  <i>Product Code: 4400000058</i>	4	5			0.87

Sr. No.	Profile Description	A Vertical Support for Horizontal Installations	B Horizontal Support for Vertical Installations	Product Dimensions	Product Dimensions	Kg./ Mtr
		Minimum Support Distance (in feet)				
48.	Strip Profile 80 x 6mm  Product Code: 4400000057	N.A.	N.A.			0.42
49.	Square Profile 100 x 100 x8mm  Product Code: 44000000578	7	10			2.36
50.	Square Box Profile 150 x 150mm  Product Code: 44000000586	8	15			5.54
51.	Strip Profile 60 x 6mm  Product Code: 44000000581	N.A.	N.A.			0.32
52.	Railing Profile 65 x 32.5mm  Product Code: 44000000060	N.A.	N.A.			0.78
53.	Hollow Box Profile 150 x 50mm  Product Code: 44000000591	6	9			3.05
54.	Round Pipe Profile 150 x 10mm  Product Code: 44000000588	6	10			3.78

## GUIDELINES FOR FLOORING/DECKING INSTALLATIONS

### 44. A. Prior to Installation

a) The **buyer** will ensure that the entire bottom surface, below the Tipwood® decking will either be a levelled PCC (Plain Cement Concrete) or any other levelled surface. As per Good manufacturing practice (GMP) a natural slope for water drainage will be provided. It is the responsibility of the **Buyer/Contractor** to follow this important procedure prior to installing Tipwood®.

b) If MS support frames are to be used, they must be painted using rust-free paint before installing Tipwood® upon them.

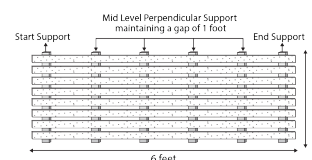
### B. Perpendicular Supports needed during installation of Flooring/Decking maintaining a suggested gap of 1 foot between each Tipwood® Profile, for proper installation and durability.

Additional perpendicular supports can always be added to reduce the suggested gap as per the discretion of **buyer**. Maintaining a gap greater than 1 foot is **not recommended**.

Using Perpendicular installation of Strip Profile 80x11 as an example:

Perpendicular supports required at the: Start  
End  
Mid-levels

You could install additional equidistant or mid-level supports, as needed.



\*8 Strips of 80 mm width (640 mm). Add a gap of 3 mm between each of the 7 gaps (21 mm) (640 + 21 = 661)

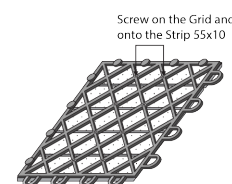
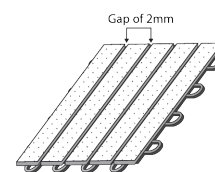
Perpendicular Support maintaining a Gap of 1 foot below 8x11 installation

### C Use a Grid below each set of Tipwood® Profiles for proper installation and durability. Recommended to use minimum thickness of 10 mm Tipwood® Profiles.

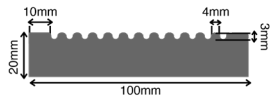
Using Grid during installation of Strip 55x10 as an example.

45. Join the Strip 55x10 upon existing grid using a screw, while maintaining a suggested gap of upto 2 mm between each Strip 55x10 to avoid a fall by a pencil heel point getting stuck.

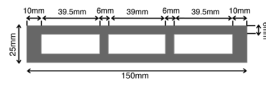
46. Lay each grid (with the Strip 55x10 fixed) with each other using interlocking system provided with each grid.



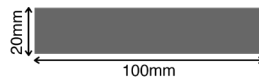
#### 47. Installation Steps for Tipwood® Decking on Metal Frames using any of the below mentioned Tipwood® Profiles:



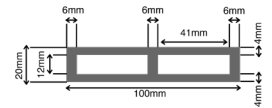
Serrated Profile 100x20mm



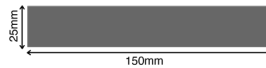
Hollow Box 150x25mm



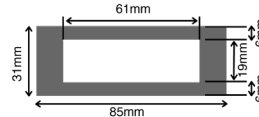
Door Profile Solid 100x20mm



Door Profile 100x20x6mm

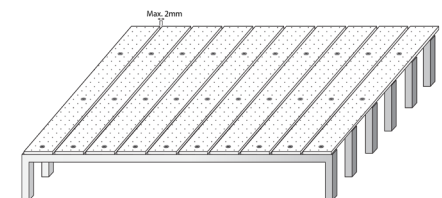
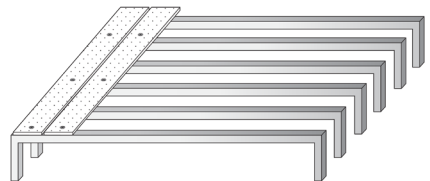
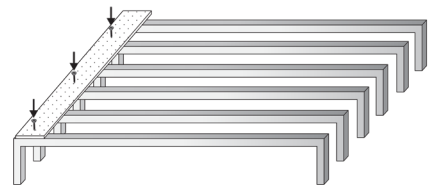


Solid Box 150x25mm



Door Profile 85x31mm

1. Flooring should be suitably levelled for water drainage
2. Install Aluminium sections at the location where the deck is required maintaining a maximum distance of 1 foot between each section. MS sections too could be used after it is painted using rust free paint.
3. Screw each of the selected Tipwood® Profile at right angles to the metal section by using stainless steel screws at suitable intervals. You could also use rust free coloured screws as per your choice.
4. Do not cover the screw heads using Tipwood® dust or any other material to hide the same.
5. Continue this process to cover all the metal sections using the selected Tipwood® Profiles by similarly screwing them besides each Tipwood® Profile already installed.
6. Maximum gap between each Tipwood® Profiles should be 2mm.

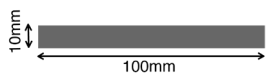


To view details of the relevant project  
**CLICK HERE** or Scan the given QR code!

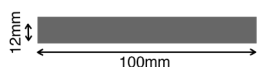


To view the video displaying the steps  
**CLICK HERE** or Scan the given QR code!

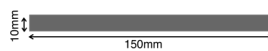
#### 48. Installation Steps for Tipwood® Decking on Interlocking Deck Base Grids using any of the below mentioned Tipwood® Profiles:



Sheet Profile 100x10mm



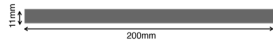
Sheet Profile 100x12mm



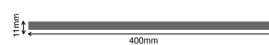
Sheet Profile 150x10mm



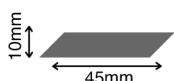
Sheet Profile 150x12mm



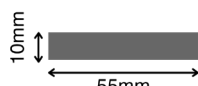
Sheet Profile 200x11mm



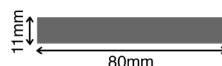
Sheet Profile 400x11mm



Strip 45x10mm

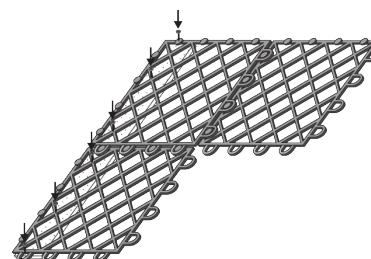
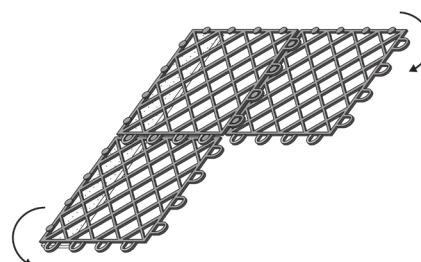
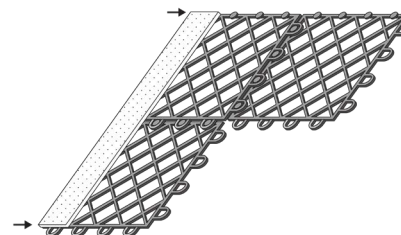
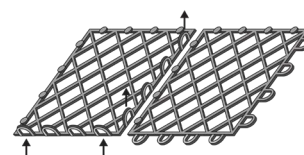


Strip 55x10mm



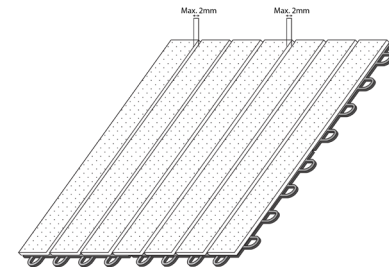
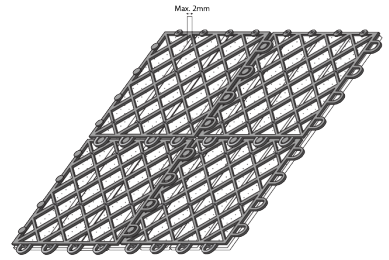
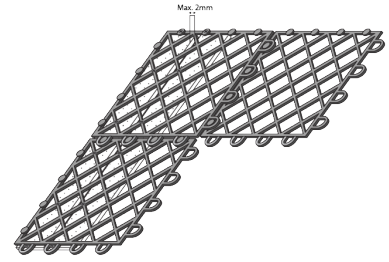
Strip Profile 80x11mm

1. Flooring should be suitably levelled for water drainage
2. Interlock and prepare the 1st column of Deck Base Grids using the 'Tongue and Groove Interlocking' from any one edge of the decking space.
3. Place the selected Tipwood® Profile upon the outer edge of the Deck Base Grid.
4. Reverse the entire column so that the Tipwood® Profile is on the floor and the Deck Base Grid faces the sky.
5. Screw the Tipwood® Profile into the Deck Base Grid using stainless steel screws at suitable intervals. You could also use rust free coloured screws as per your choice.





6. Similarly, place and screw the next Tipwood® profile besides it keeping a maximum distance of 2mm until no more space remains on the Deck Base Grid.
7. Similarly screw the Tipwood® Profiles onto the next column of Deck Base Grids and then similarly interlock the same to the previous one.
8. Continue this process until the entire decking space is covered with the selected Tipwood® Profiles as needed.

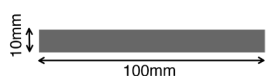


To view details of the relevant project  
**CLICK HERE** or Scan the given QR code!

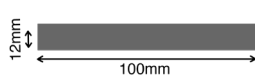


To view the video displaying the steps  
**CLICK HERE** or Scan the given QR code!

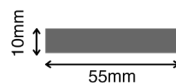
#### 49. Installation Steps for Building Elevation/Façade/Gates/ etc using any of the below mentioned **Solid** Tipwood® Profiles



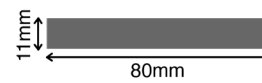
Sheet Profile 100x10mm



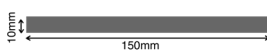
Sheet Profile 100x12mm



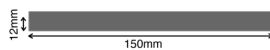
Strip Profile 55x10mm



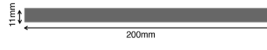
Strip Profile 80x11mm



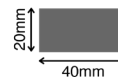
Sheet Profile 150x10mm



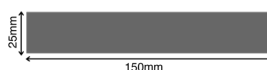
Sheet Profile 150x12mm



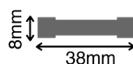
Sheet Profile 200x11mm



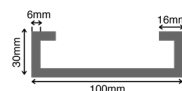
Strip Profile 40x20mm



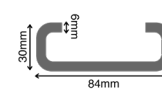
Solid Box 150x25mm



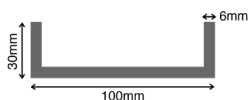
I-Beam Profile 38x6mm



C Channel Profile  
100x30x16mm



C-Channel Profile  
84x30x6mm



C Channel Profile  
100x30x6mm

1. The metal bar/channel may be suitably in place upon which the Tipwood® Profiles need to be fixed.
2. Fix the aluminium bracket (If required) in place using Stainless Steel Screws at appropriate locations onto the metal bar/channel.
3. Place the Tipwood® Profile within the metal bracket and use stainless steel screws to lock the profile within. This will keep the Tipwood® Profile fixed at the appropriate location.
4. Similarly place the next Tipwood® Profile besides the previous one maintaining the required space/gap after similarly screwing the aluminium bracket in between the Tipwood Profile and the metal bar/channel.
5. Continue this process until the entire space is covered with the selected Tipwood® Profiles as needed.





To view details of a Facade project  
[CLICK HERE](#) or Scan the given QR code!



To view details of a Gate project  
[CLICK HERE](#) or Scan the given QR code!

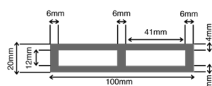


To view details of a Elevation project  
[CLICK HERE](#) or Scan the given QR code!

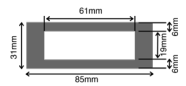


To view the video displaying the steps  
[CLICK HERE](#) or Scan the given QR code!

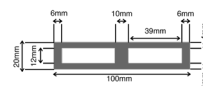
Similar steps can be followed using **Hollow Tipwood®** profiles as well.  
You may use metal brackets as per design needs.



Door Profile 100x20mm



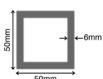
Door Profile 85x31mm



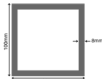
Door Profile 100x20x6mm



Round Pipe 80x10mm



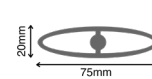
Square Profile 50x50x6mm



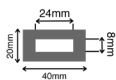
Square Profile 100x100x8mm



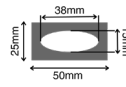
Louver 150x35mm



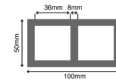
Louver 75x20mm



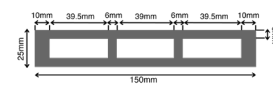
Hollow Strip Profile  
40x20mm



Hollow Strip 50 x 25mm



Hollow Box Profile  
100x50mm



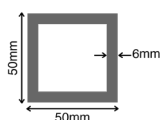
Hollow Box 150x25mm



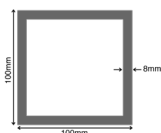
To view details of the relevant project  
[CLICK HERE](#) or Scan the given QR code!

## 50. Installation steps for Terrace Railing.

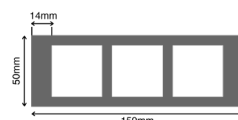
### Part 1 - Vertical pole till ground level using any of the below mentioned Tipwood® Profiles (Square profile 100x100x8 taken as an example)



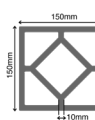
Square Profile 50x50x6



Square Profile 100x100x8

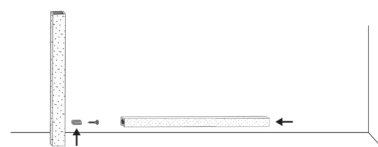
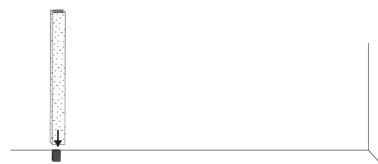
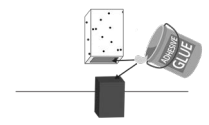
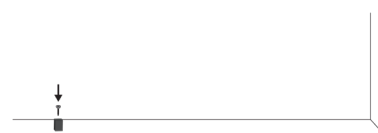


Hollow box profile 150x50



Square box profile  
150x150x10

1. An appropriate stud/anchor may be screwed onto the ledge where the vertical Square Profile 100x100 will get housed onto.
2. Apply adhesive on the edges of the stud/anchor and onto the inner hollow section of the Square Profile 100 x 100.
3. Place the adhesive side of the Square Profile 100 x 100 onto the stud/anchor so that it is not visible any more.
4. Screw the relevant stud/anchor onto the Square Profile 100 x 100 at the required height onto which horizontal Hollow Strip 50x25 will get fixed.
5. Jam the appropriate stud/anchor to the top hollow section of the Square Profile 100 x 100.



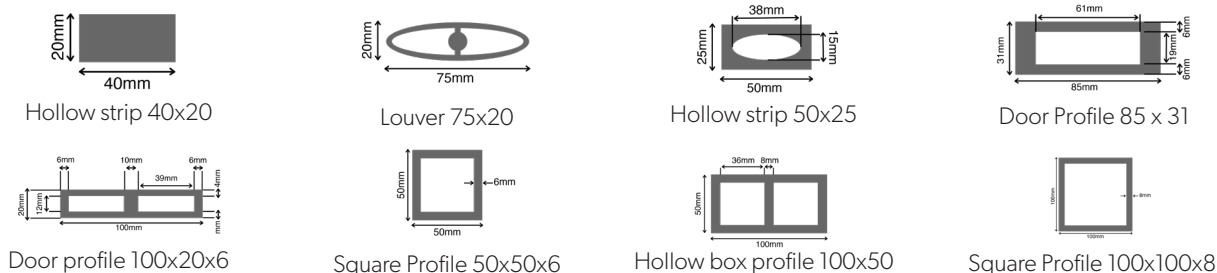
To view details of the relevant project  
[CLICK HERE](#) or Scan the given QR code!



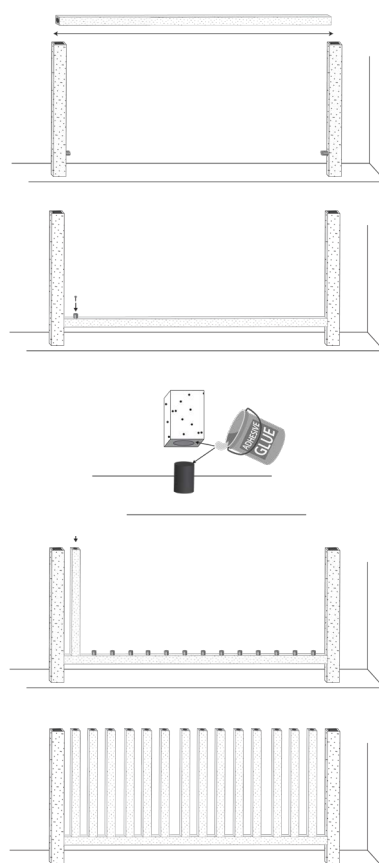
To view the video displaying the steps  
[CLICK HERE](#) or Scan the given QR code!

## 51. Installation steps for Terrace Railing.

**Part 2** - Vertical poles and bottom horizontal slab using any of the below mentioned Tipwood® Profiles (Hollow strip 50x25 used as an example)



1. Take the Hollow Strip 50x25 of the length exactly matching the distance between the two Square Profile 100 x 100 poles.
2. Screw the appropriate studs/anchors upon the 50 mm surface of the Hollow Strip 50x25 Tipwood® Profile, equating the distance between each stud/anchor.
3. Freely apply adhesive onto the sides of each stud/anchor.
4. Place the Hollow Strip 50x25 Tipwood® Profile vertically so that the stud/anchor goes into the hollow section of the Tipwood® Profile placed.
5. Similarly repeat the process for enveloping each stud/anchor on the horizontal Hollow Strip 50x25 until no more studs/anchors remain visible.



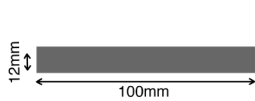
To view details of the relevant project  
[CLICK HERE](#) or Scan the given QR code!



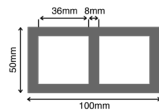
To view the video displaying the steps  
[CLICK HERE](#) or Scan the given QR code!

## 52. Installation steps for Terrace Railing.

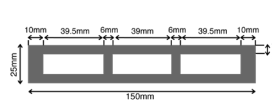
### Part 3 - Topmost horizontal slab using any of the below mentioned Tipwood Profiles (Hollow box 150x25 used as an example)



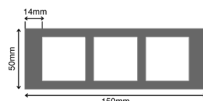
Sheet profile 100 x 12



Hollow box profile 100x50

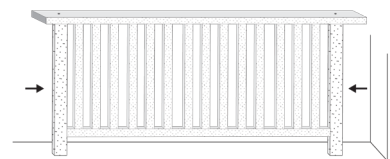
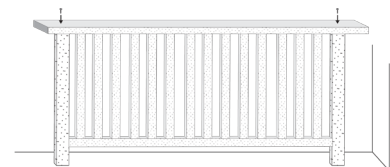
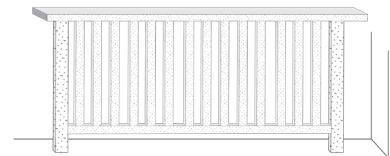
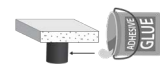


Hollow box 150x25



Hollow box profile 150x50

1. Screw the appropriate studs/anchors upon the 150 mm surface of the Hollow Box 150x25 Tipwood® Profile, equating the distance between each stud/anchor.
2. Freely apply adhesive onto the sides of each stud/anchor.
3. Place the Hollow Box 150x25 Tipwood® Profile horizontally upon the vertical Hollow Strip 50x25 Tipwood Profiles so that each stud/anchor below the Hollow Box 50x25 goes into the vertical section of each Hollow Strip 50x25 Tipwood® Profiles below.
4. Screw the Hollow Box 150x25 onto the stud jammed at the top of Square Profile 100x100 profile. You may 'katracut' the Hollow Box 150x25 at the edges as needed for turns.
5. This will keep the Tipwood® Profiles fixed in place.
6. Continue this process until the entire space is covered to complete the entire Tipwood® Railing as needed.



To view details of the relevant project  
[CLICK HERE](#) or Scan the given QR code!



To view the video displaying the steps  
[CLICK HERE](#) or Scan the given QR code!

Warranty: This warranty is subject to the procedures, recommendations, limitations, disclaimers and exclusions mentioned herein and at all locations of these guidelines. We offer a limited manufacturer's warranty. This means we are liable for all defects that are a clear fault of the manufacturing process, upto 1 year from the invoice date. Tipwood® Profiles carry a warranty against manufacturing defects when used under normal conditions and installed in accordance with guidelines and installation instructions to the Buyer for a period of 12 months from the date of invoice. Note that you must retain the original tax-invoice of the product purchased which denotes your warranty duration. This warranty is not transferable. Manufacturer's warranty and liability is limited to a maximum value of the original purchase price. Warranty is limited to repair or replacement of the Tipwood® Profiles at the sole discretion of the manufacturer. The warranty does not include labor and installation costs nor any secondary costs. Claim compensation, if approved and/or authorized is limited to the specific area which is deemed to be valid under the claim. This warranty does not cover and specifically excludes damages such as: scratches or indentations from normal wear and tear, chips, and stains caused by normal wear and tear, sheen loss, erosion from pebbles, stones, sand, all other abrasives, damage caused by close proximity to fire, inadequate protection, lack of maintenance, weather conditions, fire, excessive cold, natural disasters, excessive heat, heating and air conditioning systems, accident, improper installation or handling, cleaning agents, negligence or other causes not attributed to manufacturing or workmanship defects.

The warranty does not cover physical damage caused (knowingly or unknowingly) by anyone or by any person in any manner whatsoever. Failure to adhere to and follow all the guidelines/instructions for installation and maintenance and incorrect or insufficient maintenance, any modification to the product other than as outlined in the manufacturer's installation guidelines and approved drawings as submitted to the supplier will render the warranty null and void. This warranty excludes noises of all types (creaks, squeaks etc.) emanating from the profile. This warranty excludes changes to gloss levels. This warranty excludes claims due to differences in the shade and texture from same or different batch of manufactured profiles and literature, as well as differences in shade and texture from profile to profile. The warranty excludes claims due to lightening or darkening of the product or a shade variation from exposure to light, or to areas which have not darkened due to less exposure to light than surrounding areas. This warranty explicitly excludes products sold "as is". The BUYER is responsible for correct installation, maintenance and cleaning of the Tipwood® Profiles in accordance with the included guidelines. This warranty specifically excludes damages caused by heating systems: heating ducts, heat sources and heating system components of all types.

This warranty specifically excludes white spots, blemishes and shade variations from one batch number to another or otherwise. In all cases, installed areas must not be subject to abrasive debris or other similar conditions, which will void the warranty. The warranty applies to the original owner/user/BUYER that its profiles, when in its original manufactured condition, aside from previously mentioned information and exceptions, will be free from manufacturing defects and dimensional inconsistency during the warranty period when installed for normal use in accordance with the terms, installation guidelines, limitations and conditions herein.

This warranty is the entire and sole statement of warranty for the product and replaces any and all previous warranties, written, spoken, implied or otherwise. No implied warranties exist beyond the terms and conditions of this warranty, the manufacturer assumes no legal liability for any and all actual incidental and/or consequential damages. To file a warranty claim, contact the original supplier where the Tipwood® Profiles were purchased.

Note that manufacturer/distributor/retailer reserves the right to visit or have its dealer/distributor/agent/employee etc visit the premise where the product claim originates to inspect the product in dispute and to remove samples for verification and technical analysis. Failure to provide reasonable access to the installation area or to provide requested information and/or documentation may result in denial of the claim. All warranty claims must be made in writing through the original reseller and must include a complete copy of the original purchase invoice, LR Copy, installation documentation and drawings, as available. Other additional information that may be requested by the manufacturer/dealer/distributor/agent/employee etc regarding details included in this warranty. For information regarding Tipwood® Profiles, please visit our web-site: [www.tipwood.in](http://www.tipwood.in)

Tipco Industries Pvt Ltd is a manufacturer of Tipwood® Profiles only and does not recommend any particular installer/fabricator. Tipco Industries Pvt Ltd is not responsible for, nor bound in any manner whatsoever for the delay, damage, etc. caused by any 1) transporter or delivery agent. 2) fabricator/installer for their delays, workmanship, finish etc; Tipco Industries Pvt Ltd will have the right to take photographs and videos of the site (when in process of completion and after completion) where Tipwood® Profiles have been used for records, printing and display etc, without seeking permission but with prior intimation from the Buyer or any of their representatives. In event of fire, all required fire safety norms must be complied without flouting any. Still, if a fire persists under any unforeseen circumstances, Tipwood® may not immediately catch fire, but could emit smoke and could turn black on coming into contact with the fire. You need to follow all the necessary systems already in place to put out the fire by calling the Fire Brigade, Ambulance, Police Station etc.

Disclaimer: All information mentioned in offer/data-sheets are based on our current state of knowledge, is given to the best of our experience & is intended to provide only general idea on our products & their possible uses, without any obligations, warranty or guarantee. This information should therefore not be construed, as guaranteeing any specific properties for the end uses desired, without complete & thorough, prior testing & evaluation by user/end-user. Product/material, which are offered is/are either in use, modified &/or discontinued from time-to-time without prior notice. All values are indicative & do not in any way constitute design or usage recommendations. Recommendations require study of design, trials & field evaluation by buyer &/or end-user. Buyer &/or end-user must observe any existing 3rd party patent rights. All property values have tolerance limits. Property values are obtained on specific testing equipment, procedures, methods, samples, conditions & speeds. e.g., all tests are carried out after conditioning & at standard temperatures & humidity, & values may differ elsewhere. It is buyer's responsibility to carry out any/all in-house or 3rd party testing on material and components before usage. All properties are Subject to change without prior notice. Always confirm with us before any usage. Purchase of goods will mean that Buyer indemnifies and keeps indemnified Tipco of all claims & responsibility on improper use and end-use of our goods. All rights are reserved.

July-2022