



Uncoated Plywood Panels for ceilings using mechanical fasteners

Purpose For the bonding of “Uncoated Plywood Panels” to *interior ceiling structures*. This specification is designed for the securing of the Plytech product **with mechanical fastenings**.

Ceiling types covered

1. Timber Battened
2. Steel Battened

Note: *Previously lined ceilings will require;*

- a) The existing ceiling to be completely battened as per the directions outlined below (as you need to ensure that it can support the increased weight of the panels), or
- b) Previous lining is removed and battened as outlined above.



Option 1. Timber Battened Ceilings

Products Required

- [Gorilla Grip 1 Hour Cure](#) 310ml Cartridge #20075, or
 - [Gorilla Grip 2 Hour Cure](#) 310ml Cartridge #19290
- [Gorilla Solvent Cleaner](#) (for timber framing if required)
- Clean Cloths for application of Gorilla Solvent Cleaner
- Spray misting bottle for the water (see Step 4)
- [Mr Gorilla Wipes](#) # 46005

Installation Procedure

Step 1

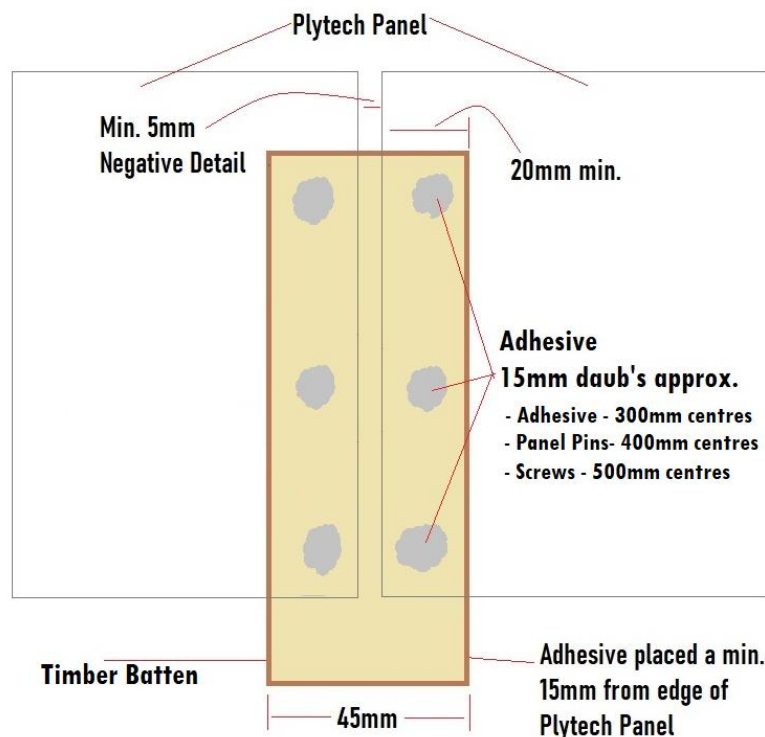
Ensure that you read the Product Technical Documents before you begin. If at that point you have questions, please contact your local Soudal Territory Manager.

Step 2

Ensure that the battened ceilings that you are working with are straight and flat, use a straight edge for this. Where this is not so, there may be additional stresses on the bonded joints once applied.

Placement for walls:

1. All Battens - No greater than 400mm apart, 45mm wide
2. Negative detail 5mm or less – Follow attached line drawing
3. Timber Battens: - if creating a “negative detail greater than 5mm”, you need to double batten along all edges that will have the “negative detail” (as you will not have sufficient space for both the adhesive and tape).



Step 3

Ensure that all timber battens and back of “Plytech Plywood” is clean and dust free.

Step 4

Wipe down all timber battens with a damp cloth (as this assists the curing process of the adhesive). Mist with water from a spray bottle the non-visual side of the 'Uncoated Plytech Panel'.

Misting is only a very lite spray of water as this will help the adhesive cure.

Step 5

Adhesive positioning: Adhesive should be placed not closer than 15mm to the edge of the Plytech Panel. Use 15mm daub's of Gorilla Grip Adhesive approx. 300mm apart.

Soudal recommend that the adhesive is applied around the perimeter of the panel and through the center of the panel. It does not matter if you mechanically fix through the adhesive.

Note: As environmental conditions cool, curing times extend for adhesives & sealants.

Step 6

'Low profile' mechanical fix, 40mm panel pins to provide support. We would recommend that these are positioned 50-100mm from a corner and 300mm intervals, along all sides. Place 3-4 panel pins through the centre of the panel equal distance.

'Screw Fixing' mechanical fix, 40mm screws to provide support. We would recommend that these are positioned 50-100mm from a corner and 500mm intervals, along all sides. Place 2 screws, equal distance, through the centre of the panel for support.

Step 7

You want to avoid on getting the adhesive (Gorilla Grip Adhesive) on the edges of the Interior Lining (as the grain finish will make it impossible to remove all residual traces of the adhesive from the edge).

The following points should be noted:

- *Lower temperatures will dramatically increase the time required for the adhesive to cure.*
For further guidance on this please contact Soudal Technical.
- Preparation is critical to success

If you have any further questions, please do not hesitate to contact Soudal Ltd: Ph: 08008327732

Option 2. Steel Framed Ceilings

Products Required

- [Gorilla Fix All High Tack](#) 290ml Cartridge (any colour) # 20303
- [Gorilla Primer 150](#) (for any supplementary timber battens or as required)
- [Gorilla 696 Surface Activator](#) #19389 (for ALL steel battens)
- Clean Cloths for application of Gorilla Solvent Cleaner.
- [Mr Gorilla Wipes](#) # 46005

Installation Procedure

Step 1

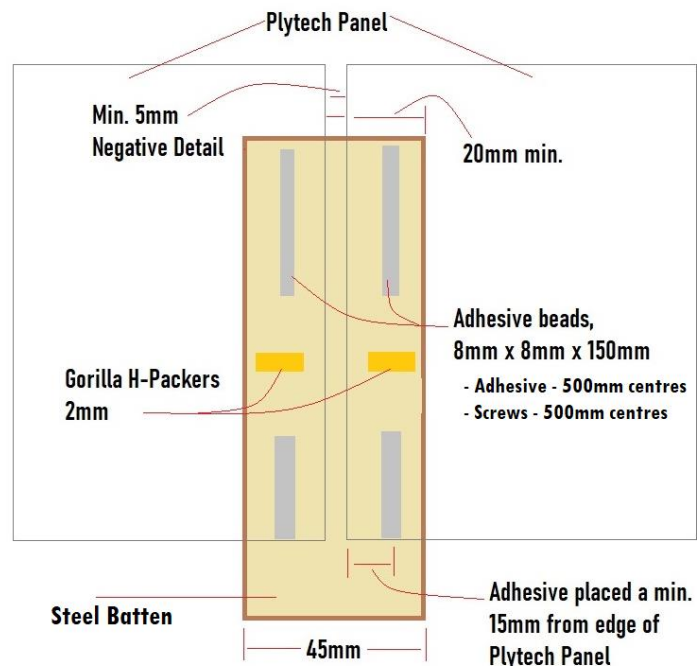
Ensure that you read the Product Technical Documents before you begin. If at that point you have questions, please contact your local Soudal Territory Manager.

Step 2

Ensure that the ceilings that you are working with are straight and flat, use a straight edge for this. Where this is not so, there may be additional stresses on the bonded joints once applied.

Placement for walls:

4. All Battens - No greater than 400mm apart, 45mm wide
5. Negative detail 5mm or less – Follow attached line drawing
6. Steel Battens: - if creating a “negative detail greater than 5mm”, you need to double batten along all edges that will have the “negative detail” (as you will not have sufficient space for both the adhesive and tape).



Step 3

Where double battens have been used, and these are of timber, then ensure that ALL timber battens have been coated with the Gorilla Primer 150 (as this promotes superior adhesion).

Ensure that the “non-visual side” of the “**Plytech Plywood**” has had a full coating of an enamel sealer coat or Gorilla Primer 150 (**note:** if using the Gorilla Primer 150 you need to begin applying the adhesive after approx. 1 hour, refer to the product technical data sheet), to improve the adhesion of the Gorilla Fix All High Tack. If this coating was completed, and

dust/debris has settled, this needs to be wiped with Gorilla Solvent Cleaner prior to fixing in position.

Ensure that ALL steel battens have been wiped down with the Gorilla 696 Surface Activator (as this promotes superior adhesion). Ensure that you follow the application instructions.

Step 4

Adhesive positioning: Adhesive should be placed not closer than 15mm to the edge of the Plytech Panel. Use 8mm x 8mm x 150mmL beads of adhesive placed 500mm apart. Use Gorilla 2mm H-Packers (snapped off legs) to ensure that you have a min 2mm thickness of the compressed adhesive.

When the 7-8mm bead of adhesive is compressed to 2mm thick, it is now approx. 15mm wide.

Step 5

Set & press the plywood panel back into position onto the ceiling and mechanically fixed.

'Screw Fixing' mechanical fix, 40mm screws to provide support. We would recommend that these are positioned 50-100mm from a corner and 500mm intervals, along all sides. Place 2 screws, equal distance, through the centre of the panel for support.

Note: As environmental conditions cool, curing times extend for adhesives & sealants.

Step 6

You want to avoid on getting the adhesive (Gorilla Fix All High Tack) on the edges of the Interior Lining (as the grain finish will make it difficult to remove all residual traces of the adhesive from the edge).

The following points should be noted:

- *Lower temperatures will dramatically increase the time required for the adhesive to cure.*
For further guidance on this please contact Soudal Technical.
- Preparation is critical to success

If you have any further questions, please do not hesitate to contact Soudal Ltd: Ph: 08008327732