



Installation Guide

PROCLAD350™

The Premium All Weather Jacketing & Cladding System

Surface Preparation

Ensure all surfaces are dry and clean, free from dirt and dust, grease, oil and silicones. The insulation materials should be installed to industry standards and sealed using one of ProTech Global's aluminium foil tapes, GT30HT or GTR55.

When applying the PROCLAD350™ ensure that the correct pressure is applied using the plastic applicator as the adhesive is a PSA and requires a firm application to provide a full surface bond.

When placing the cut piece of PROCLAD350™ in to position, partially peel back the liner to allow correct positioning and then rub down, continue to peel back the liner whilst pressing in to place using the hand to prevent creasing, once the full piece has been applied use the plastic applicator and rub the complete surface to ensure the full adhesive bond required.

Continue to apply PROCLAD350™ ensuring that a minimum 75mm (3 inch) overlap is observed to the previous piece to ensure a strong weatherproof seal.

Application to Ductwork

Rectangular Ducting

It's best practice to provide a watershed to rectangular ducting especially over 700mm (27 inch) wide to help prevent water ponding. When installing PROCLAD350™ to rectangular ducting then it's recommended that the underneath is applied first allowing for a 75mm (3 inch) overlap to the sides, then the sides are applied providing a 75mm to the underside and top before finally installing the top with an overlap on to the sides by 75mm.

The overlap on to each surface even to sides already covered with PROCLAD350™ provides the best, strong weatherproof seal rather than trimming the edges. If the installation is difficult to overlap onto the other surfaces, and the edges are trimmed, the use of PROCLAD PLUS tape at 100mm is required. This method is an essential part of the warranty requirements.

For ducting that include reducers, it's best practice to ensure that the overlap of the PROCLAD350™ runs down on to the lower surface to provide the best watershed overlap rather than having the joint on the upward slope.

Circular Ducting

Cut the piece to the required length plus an extra 75mm (3 inch) for the overlap, place the cut piece of PROCLAD350™ in to position, partially peel back the liner to allow correct positioning and then rub down, continue to peel back the liner whilst pressing in to place using the hand to prevent creasing, once the full piece has been applied use the plastic applicator and rub the complete surface to ensure the full adhesive bond required.

Continue to apply PROCLAD350™ ensuring that a minimum 75mm (3 inch) overlap is observed to the previous piece to ensure a strong, weatherproof seal. All overlaps to be taped using PROCLAD Plus tape.



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Non-Adhesive Installation to Circular Duct

The PROCLAD350™ product is provided on a roll that can be cut at the required length with a minimum 75mm (3 inch) overlap. Pull the sheeting around the insulation ensuring not to pull too tight, fix in place using the plastic rivets to pierce both overlapping joints. The rivets provide a mechanical fix to the overlap and should be installed before being taped over using the PROCLAD PLUS jointing tape.

Maintenance & Repair

We recommend that regular annual inspections are carried out on completed systems to review the performance of the application and to repair any damage that has occurred, this will help maintain the life of the system and ensure the insulated system is working efficiently.

Should there be any damage then it's a simple repair by cleaning the surrounding surface of the damaged area by 100mm (4 inch) to all sides of the area and then apply a new piece ensuring that it's rubbed firmly in to place with the plastic applicator. Your system is then complete.

Installing Pre-laminated Insulation Boards

Installing pre-laminated boards covered with PROCLAD350™ requires the boards to be mechanically fixed to the duct to prevent movement and stress to the tape joints, any warranty for this system is not covered by ProTech Global Ltd and should be provided by the supplier of the pre-covered board.

Application to Pipe Work - Self-Adhesive Version

Straight Pipe

Cut first piece of PROCLAD350™ to wrap around the pipe insulation and allow an extra 75mm (3 inch) for the overlap, partially peel back the liner to allow easy positioning, rub in to position before continuing to peel back the liner and smooth in to place using the hand, once fully in place use the plastic applicator to rub firmly in to place. Continue to place further pieces in the same manner allowing for a 75mm overlap on to the previous piece. Tape all overlaps with PROCLAD PLUS jointing tape, 50mm – 75mm is recommended depending on the size of the pipe.

Pipe Elbows

There are two ways to apply to the elbow:

1. Pre-apply PROCLAD350™ on to the pipe section before installation and then cut the segments to fit according to the type of bend, place the segments on to the pipe and tape together using PROCLAD™ T and rub firmly in to place.
2. To site apply PROCLAD350™ to the elbow then either cut fish templates similar to metal and then once in place use the PROCLAD™T tape to seal the segment joints.

Pipe Tees

There are two ways to apply to the tee:

1. Pre-apply PROCLAD350™ on to the pipe section before installation and then cut the shapes to fit the pipe tee, place the cut segments and tape in to place using PROCLAD™ T tape ensuring that the segments are pushed together to fit tightly before applying the PROCLAD™ T tape, rub firmly from the centre of the tape outwards ensuring the tape edge provides a flat tight seal.

All longitudinal and butt joints to be taped with PROCLAD™T.

2. Cut templates as per metal cladding to fit the Tee section allowing for a 75mm (3inch) overlap, where the Tee segments meet use the PROCLAD™ T tape to seal the Tee joint rubbing from the tape centre outwards to provide a flat tight seal. All longitudinal and butt joints to be taped with PROCLAD™ T tape.
3. Use PROCLAD350™ pre-formed Tees, rivet overlaps in place before sealing joints with PROCLAD™ T tape.

Notes

The insulation materials should be installed to the industry standards outline in BS5790 before installing PROCLAD350™, failure to so may affect the long term performance of the product.

All underlying insulation should be sealed using one of the ProTech Global Ltd range of aluminium foil tapes to maintain the warranty conditions.

Legal Notices

The information, and, in particular, the recommendations relating to the application and end-use of ProTech Global Ltd products, are given in good faith based on ProTech Global Ltd.'s current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with ProTech Global Ltd.'s recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. ProTech Global Ltd reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

About ProTech Global Ltd

ProTech Global Ltd is a UK based company that has manufactured anti-corrosion products for over 25 years. With many years' experience in differing types of protection scenarios, ProTech Global Ltd has a reputation as a trusted supplier and partners with many corporations worldwide.

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