



Jemiclad Installation and Maintenance Guidance 2018 edition



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How the professionals do it. Don't get left behind.

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1. Product Information

- Jemiclad wall and ceiling cladding is an impervious semi-rigid PVCu* sheet.
- Extremely smooth finish throughout the range.
- Thermoforms superbly, giving you strength and durability.
- Hot welds to give a seamless hygienic finish.
- Jointing, capping and transition trims are co-extruded to give a water-resistant tight fit.
- Jemiclad carries a Class 0 fire rating.
- Can be installed over most suitably prepared substrates using the correct Jemifix adhesive, i.e. timber, ceramics and drywall (see substrate guidance notes page 5).
- Jemiclad is 100% recyclable.

For a full specification guide please contact your local representative found on page (((

Jemiclad sheets are available in the following sizes are as stated below.

Width	Length	Thickness	Weight
1220mm	2440mm	2.5mm	10.6kg
1220mm	2500mm	2.5mm	10.9kg
1200mm	2500mm	2.0mm (Sureclad only)	7.7kg
1220mm	3000mm	2.5mm	13.1kg
1220mm	3000mm	2.0mm (Sureclad only)	10.5kg

Composition: semi-rigid PVCu *= unplasticized



2. Applications

- Operating theatres, Side rooms, Scrub rooms, Anaesthetics etc.
- Hospitals, Corridors, Waiting areas, Showers and Ablutions.
- Commercial Kitchens and Bars.
- Splashbacks to Worktops, sinks and basins.
- Schools; Corridors, Kitchens, Kitchenettes, Tech. rooms, Ablutions, Changing rooms, Hygiene rooms.
- Food productions areas, Clean rooms,
- Pharmaceutical productions.
- Sterilization areas.
- Domestic and Commercial showers, wet rooms i.e. campsite shower areas and ablutions.
- Stadia / sports venues, kitchens, bars, stores, cellars, changing and ablutions, corridor wainscoting and Accent walls (Photojemic).
- Retail; wainscoting front and back of the house, changing rooms and Accent walls (Photojemic).
- Designer accent walls for retail, waiting areas, offices, show rooms.
- Mechanical workshops show rooms and car washes.
- Beauty salons and Cosmetic Therapist; splashbacks, accent walls etc.
- Veterinary clinics, operating theatres, clean rooms, kennels etc.
- Pet grooming areas.
- Retirement villages and Assisted living.



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3. Product Limitations

If you are ever unsure of the below, please do not hesitate in contacting your Jemiclad area representative.

Jemiclad panels are suitable for most areas unless the temperature is likely to exceed 60°C (140°F), drop below -5°C (23°F) or the substrate is subject to impact from heavy machinery or sharp objects without additional protection.

If you install in these areas the sheet may suffer distortion or expansion issues.

Panels and accessories should always be stored flat and fully supported.

This guidance is compiled to the best of our extensive knowledge, if you are still unsure please contact your Jemiclad area representative.

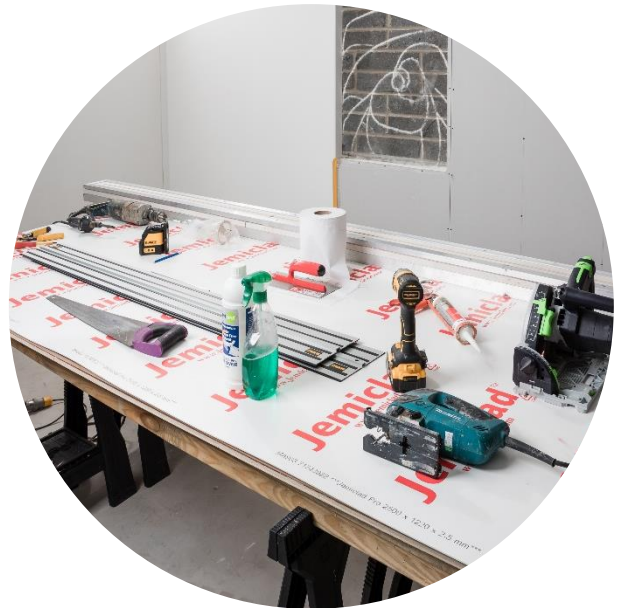
4. Jemiclad Tools

Hand tools:

- Jemifix Towels 1 (3mm square) & 2 (5mm square)

Electrical tools 110v:

- Jemiclad Thermoformed (1200mm, 2500mm, 3000mm)
- Jemiclad 160mm circular saw blades (36 & 48 tooth)



5. Generic Installation Tools

Hand tools:

- Rubber Mallet (Non-marking)
- Wall Roller
- Caulk Applicator
- Spirit Level
- Small Block Plane
- Hole Saw Set
- Tape Measure
- File
- Laser Level
- Metal Straight Edge
- Carpenters Square
- Access equipment
- Work bench, good quality ¾" ply wood minimum, on a pair of heavy-duty trestles.



Electrical Tools:

- Jigsaw with fine tool blade
- Plunge/Rail saw with a track guide
- Drill with paddle attachment
- Drill for hole saw

PPE (mandatory when installing Jemiclad):

- Safety Glasses
- Gloves
- Hard Hat
- Hi Viz Vest
- Safety Boots



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6. Jemiclad Thermoformer

The Jemiclad Thermoformer allows certified installers to thermoform and shape Jemiclad wall panels to all internal and external corners. This gives the Jemiclad wall panel a seamless finish in lieu of retrofitted angles. The Jemiclad Thermoformers can be purchased in both 110v and 240v from your local distributor.



6.1 Using the Thermoformer

- Check Thermoformer for damage to ensure it is safe to use.
- Set up workbench with top Thermoformer finishing flush with the top of the workbench.
- Plug in the Thermoformer and allow 25 minutes to reach operating temperature. If unsure use an off-cut piece of Jemiclad to test form.
- Measure and mark the front face of the Jemiclad gently using a ball point pen where the form is required.
- Centre the marked form lines over the centre of the thermoformer, always do this face up.
- Once a visible line has appeared through the panel bend into position as required. Keep hands away from the heating element by using a metal straight edge away from the element, to ensure even heat transfer.
- Allow sufficient time for the Jemiclad to become malleable, this will take approximately 15 – 20 seconds if you have dedicated power supply and the jobsite conditions are adequate.
- Bend the Jemiclad back on itself and then forward to the required angle.

Note. Remember when measuring and marking for thermoforming to make allowance for the thickness of the cladding and Jemifix adhesive.

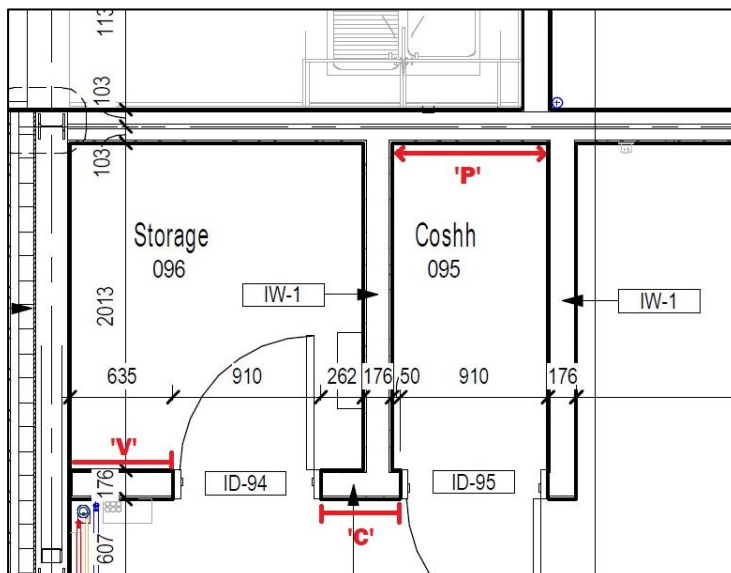
6.2 Measuring for Thermoforming



Jemiclad thermoforms like no other cladding out there, we recommend thermoforming all internal and external angles where ever possible. This is done using a Jemiclad Thermoformer.

- Measure and mark front face of the Jemiclad.
 - Allow for the thickness of the Jemiclad and Jemifix adhesive when calculating your bends.
 - Take measurements at the top middle and bottom of internal or external corner being wrapped.
- This will show if the walls are true and plumb and allow for formed angles to fit tight to the substrate.

Measurement Illustration



'P' – Inside to inside, take the measure between the two walls and subtract the thickness of the Jemiclad and Jemifix (4mm approx.).

'V' – Inside to outside, take the measure from the internal angle of the wall to the end. Do not subtract or add anything.

'C' – Outside to outside, take the measure from edge to edge and add the thickness of the Jemiclad and Jemifix (4mm approx.)

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7. Jemifix Adhesives

- Jemifix Two Part adhesive should be applied using a 6mm notched trowel and can be used on any of the substrates below.
- Jemifix Waterbased adhesive should be applied using a 3mm notched trowel, and can be used plasterboard, ply, mdf and OSB, plaster and cement render. It cannot be used on moisture resistant substrates.

Substrate	Jemifix Two Part	Jemifix Waterbased
Plasterboard / Drywall	☐	☐
Ply, MDF or OSB	☐	☐
Aqua Panel	☐	
Ceramic Tiles	☐	
Sand and Cement Render	☐	☐
Painted Walls	☐	☐
Brick and Block Work	☐	☐



Note: Both Jemifix adhesives must be protected from frost and temperatures below +5°C, and temperatures exceeding +30°C. During storage and transportation Jemifix must be kept upright.

8. Installation Temperatures

- All installation areas should be a minimum of 14°C. Where possible Jemiclad should be installed at the same temperature to which the area will be once in use.
- Jemiclad should be stored laid flat on a level surface off the ground to prevent condensation and distortion.
- Jemiclad PVC cladding should not be installed on any substrate where the temperature is likely to reach or exceed 60°C, such as kitchen cooklines, where this is likely we recommend the installation of stainless steel.

9. Substrates

- Plasterboards (grey, pink, green, blue etc.) greater than 12.5mm thick. These tend to be dusty so may need to be primed with a PVA solution.
- Minimum 9mm thick Ply, OSB or MDF. Minimum 12mm is recommended where shelves or cupboards are going to be fixed. Joints should all be level.
- 12.5mm Aqua Panel.
- Tiles that are securely bonded to the substrate and are level, free from grease and well cleaned.
- Trowel finished sand and cement render.
- Painted walls that are free from grease and flaking.
- Brick and Blockwork that is level and free from snots. We do not recommend welding on this substrate.

Note. Where possible all substrates should be level over 2 meters to within 3mm. Otherwise there is potential for the undulations to show through the sheet.

10. Substrate Preparation

- All substrates must be level, secure and free from contaminants such as dust and grease.
- Substrates must be dry and free from damp.
- Plastered, dusty and very absorbent substrates should be primed with a diluted PVA solution.
- Where installing onto tiles they should be level, free from grease and loose tiles removed and infilled with ply or bonding.
- Where Electrical services are to be recessed containment and pattresses should be installed prior to cladding and any chases infilled with bonding.
- Mechanical services (plumbing and gas) are will need to be at 1st fix stage with only stubs / tails protruding. Where hot pipes are coming though the cladding cut outs will be 3mm oversize to allow for expansion.
- Any fixings through the cladding should be pre-drilled 3mm oversize to allow for expansion. This is required for all electrical, mechanical, ceiling etc fixings.



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11. Installation

11.1 Jemiclad Sheet Installation

1. Prior to setting up check all substrates suitable for Jemiclad.
2. In a safe manor setup your working area, work bench, tools, and Jemiclad Thermoformer to preheat ready for forming.
3. Strike a datum to walls receiving Jemiclad using a laser or water level at a convenient and memorable height.
4. Lay your first panel of Jemiclad on the work bench and ensure it is free from damage from transportation. If damage is found check to see if it on an area of the sheet that can be cut out and the sheet salvaged.
5. On the wall from the datum line down to the finished level, then mark this same measurement on the protective film of the panel, measured from the bottom of the sheet up. This will be the datum line. All your measurements for cuts will be taken from this point.
6. Measure from the wall datum line to the ceiling and any other cuts / cut outs and mark these on your sheet whether marking front or back.
7. Cut the panel using a plunge saw with Jemiblade for long cuts, a jigsaw for socket cut outs and hole saws for pipe work pass throughs. Ensure you leave 2mm between the Jemiclad and any abutments with ceilings, door frames and pipework to allow for expansion.
8. Measure for the required thermoforming and mark up the face of the sheet.
9. Set the Jemiclad on the thermoformer and from the required bends.
10. Hold the Jemiclad up of against the wall to test fit.
11. Return the Jemiclad back to the work bench, trim and alter if required.
12. If vertical joints are welded, see Welded Joints section below.
13. Preparing Jemifix Adhesive:
 - 13.1 Gently remove the lid of your Jemifix adhesive (if you're using Jemifix Waterbased Single Part Adhesive move on to point 13.3), If using Jemifix Two Part remove Part B and add to Part A.
 - 13.2 Jemifix Two Part: Grip the tub firmly between your feet and mix the Jemifix adhesive using a drill and paddle for 2-5 minutes (depending on working temperatures) or until the colour is the same throughout ensuring you move the paddle around the entire tub.
 - 13.3 Jemifix Waterbased One Part: Grip the tub firmly between your feet and mix the Jemifix adhesive using a drill and paddle until it reaches an even consistency throughout similar to a thick toothpaste.
14. Clean the back of the Jemiclad using Jemifix Cleaner to the Rear to ensure no contamination.
15. Apply adhesive to the rear of the Jemiclad using a Jemifix Square Notched Trowel 1/3mm for the Jemifix Two Part and Jemifix Square Notched Trowel 2/5mm for the Waterbased One Part. These can be purchased from your local distributor.
16. Lift the sheet back onto the wall and line up the sheet and wall datum lines. Use wall roller across the sheet to give even transfer of the adhesive to the substrate.
17. If welding vertical joints remove the protective film from the weld tape. See the welded joint method below.
18. If vertical joint trims are being used fit the back section of the joint trim behind the sheet. See the trimmed joint method below.
19. Install floor transition trims and any other finishing trims as required.
20. Repeat the process throughout the required areas.
21. Where window sills, heads and door heads are formed the material and joints should be to the width of the structural opening.
Note: Joints should be 300mm from any bends where ever possible.



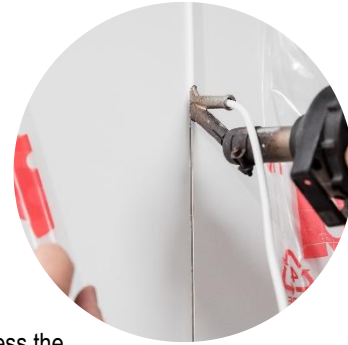
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11.2 Welded Joints



1. Ensure edges of the Jemiclad are clean and free from burrs. Where welded edges have been saw cut we recommend using a small block plane to give a true edge.
2. Apply spray adhesive to the substrate centred at the joints of the Jemiclad allow to dry and apply the Jemitape 1 tape.
3. Install sheets as above leaving the adhesive 25mm clear of the edge of the sheet.
4. Carefully cut through and remove half of the Jemitape 1 protective film and press the Jemiclad firmly onto the tape.
5. Install the remaining sheets leaving a 1.5mm gap between each sheet.
6. Clean all joints using anti-static wipes. This will prevent dust burning into the joints when welding.
7. Carry out a test weld on some off cuts or scrap material, to ensure the weld gun is at the correct temperature.
8. Weld the Jemiclad joints being extremely careful not to burn the sheets.
9. Allow the weld to cool and trim using a Mozart blade in a single pass where possible.



11.3 Trimmed Joints

1. Once the first panel of Jemiclad is installed cut down and tuck the back of the joint trim behind the sheet leaving a 1mm gap between the edge of the sheet and the clip channel of the back trim. Note, if a skirting transition trim is being installed the joint back needs to be cut short by 20mm to allow for this.
2. Following the installation of all the sheets and back trims, loosely install the front part of the joint trim by hand.
3. Cut down the front trim and final fit using a rubber mallet.

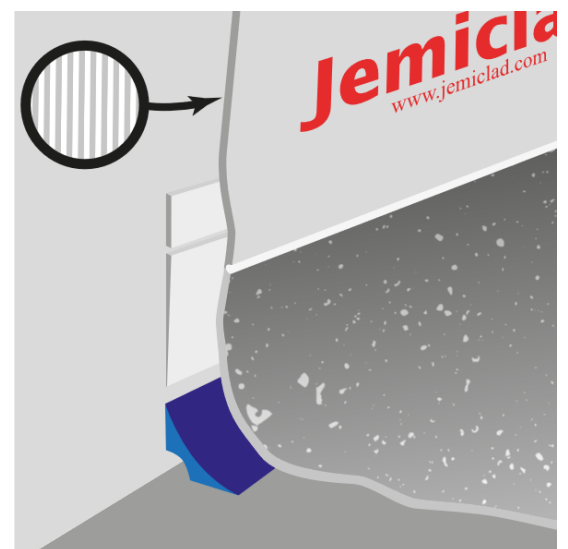


11.4 Trimmed Floor Transition

1. Once all the Jemiclad panels are installed install the cut tile trim by tucking it up behind the underside of the cladding.
2. Loose fit the cover trim bending along the way to form the internal and external angles.

11.5 Flash Cove Wall to Floor

1. Whilst installing the setting out the for the Jemiclad installation, set a low-level datum at the agreed cove height (usually 100 or 150mm 4 or 6") and mark it on the substrate.
2. Install your chosen cove former as per the manufacturer's instructions.
3. Install the 4" 1.5mm Jemitape from the Jemiclad Flash Cove Wall to Floor kit. This will be installed above the set skirting datum.
4. Install the 6" 2mm Jemitape below this line overlapping the cove former.
5. Install the Jemiclad panels as instructed above, peeling off the face film of the 4" tape and roll back the Jemiclad to the tape to ensure adhesion.
6. Carry out the installation of the vinyl flooring as the manufacturer's instruction, loose fitting the cove, leaving an additional 10mm to overrun the Jemiclad panels.
7. Using a metal cutting guide cut the vinyl flooring back to level with the underside of the Jemiclad. Ensure the vinyl is cut as straight and level as possible to give the best result.
8. Peel back the 6" Jemitape and adhere the vinyl cove.
9. Hot weld the Jemiclad and vinyl together using Jemiclad flexible PVC weld rod.
10. Trim back the weld with a Mozart knife.



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