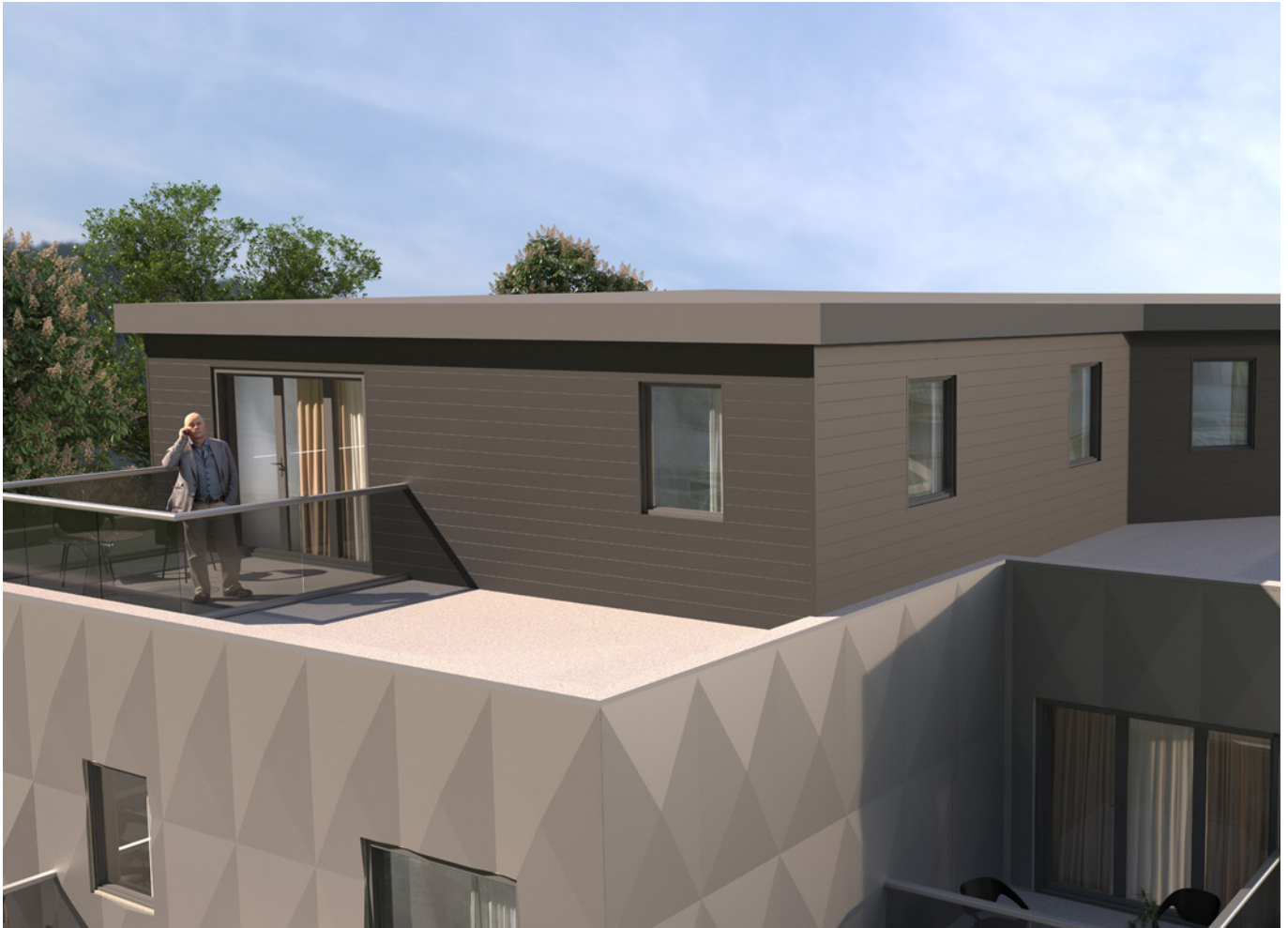


# Technical Installation Manual

## Dura Cladding Flush Aluminium



Dura Cladding Flush Aluminium is a flush-fitting cladding system that's suitable for any type of project, including as a replacement for dangerous or unsafe cladding that requires a total A2-s1d0 fire-rated solution. This Technical Manual contains guidance relating to the installation of your new cladding and additional technical information regarding the product specification.

To ensure you get the best results from your Dura Cladding Flush Aluminium planks, we recommend working with a professional contractor with previous cladding installation experience.

If you require any further information or support, please call us on +44 (0) 1255 440 299 or email [info@duracomposites.com](mailto:info@duracomposites.com) where one of our knowledgeable staff will be happy to help.

**Unlocking the Power of Composites™**  
**» for the Cladding & Façades**

**Tel: 01255 440299 | [www.duracomposites.com](http://www.duracomposites.com)**

© 2020 Dura Composites



# Contents

## 1. Preparation

Use Professionals	2
Safety First	2
Storage Handling	2
Fire Performance	3
Tools Required	3

## 2. Materials

Dura Cladding Flush Aluminium Planks	4
Dura Cladding Flush Aluminium Accessories	5
Fast Fit 2-Part Aluminium Trims	6

## 3. Cladding Preparation

Decide on which Direction to Install	8
Select the Area to be Clad & Produce a Bill of Quantities	8
Preparing the Bearers	9
Bearer Installation	9

## 4. Installation Steps

Horizontal Cladding	12
Vertical Cladding	19
Additional Notes for both Horizontal & Vertical Cladding	26
Finished Horizontal & Vertical Projects	27

## 5. Additional Information

Maintenance & Cleaning	28
------------------------	----

## 6. Data

Technical Specifications	29
Gap Guides	30

# Preparation



## Use Professionals

Dura Cladding Flush Aluminium has been designed to enhance safety and for ease of installation. However, to ensure long-term performance, we recommend that a professional trades-person carries out the installation. The installation **MUST** be carried out in accordance with these instructions including the use of Dura Composites proprietary trims and accessories otherwise the warranty for the product will be invalidated.

Dura Composites recommends that all cladding designs be approved by a licensed architect or engineer prior to installation. Please ensure that your plans meet any relevant local building codes before you begin the installation. Dura Cladding Flush Aluminium must be supported by a code compliant substructure. While Dura Cladding Flush Aluminium is ideal for re-cladding (removing old cladding planks and installing on a code-compliant substructure), it **CANNOT** be installed on top of existing cladding.

**Note: The Dura Cladding Flush Aluminium system offers a level of water resistance but is not designed to be a fully waterproof system. It should provide adequate weather protection for buildings. However, it must be assumed that not all wind driven rain will be deflected. Therefore, a well ventilated, free draining cavity should always be included in the detailed design. A minimum 25mm ventilation gap must be left behind the planks with a minimum 10mm continuous gap left at the top and bottom of the system for full ventilation.**

### Cladding onto Timber framed properties:

The inner wall structure should be fitted with a breather membrane. This serves to seal the building against damp and weather penetration. As such it should be highly durable and tear-resistant in accordance with Type 1 membranes in BSI British Standard BS4016. Please note: installing Aluminium Cladding onto Timber Frames or Timber Battens would invalidate the A2 Fire Certification.

### Cladding onto Masonry properties:

Where cladding is fitted to an existing building with solid walls, to prevent water penetration the wall should be given a waterproof coating or membrane, or wax treated insulation plank should be fitted. Dura Cladding Flush Aluminium is **NOT** intended for use as columns, support posts, beams or other primary load-bearing members.

## Safety First

- Keep unauthorised personnel away from the work area until the job has been completed and tools have been stored safely.
- Refer to the operator's manuals for safety guides for all power tools being used.
- When handling, always wear gloves with additional eye protection and work in a well-ventilated area.
- Dispose of excess material safely as refuse, but ideally please recycle in line with local government guidance.
- Wear eye protection when pressure washing or scrubbing and a dust mask when cutting.

## Storage and Handling

Store flat on suitable pallets and protect edges and corners. Keep dry and covered prior to installation. Any temporary transportation wrapping should be removed to release any trapped

moisture, and the pack re-covered with an opaque tarpaulin.

When loading and unloading by hand, make sure that both ends are lifted on the edge to avoid permanent deformation of the plank and/or damage to the plank. Planks should only be lifted off the stack, and not dragged.

We advise that the cladding planks are stored on site at least 72 hours before installation, to allow it to acclimatise. When the planks arrive, lay them on a ground sheet and keep them covered. Dura Composites cannot be held responsible for damage caused by improper storage and handling of the product.

## Fire Performance

Dura Composites' aluminium cladding has achieved the classification of A2-s1, d0, in recognition of its low smoke volume and the absence of droplets in the event of a fire.

Dura Cladding Flush Aluminium is also part of a full system which includes A2 rated aluminium bearers and 2-part colour matched finishing trims so you can purchase from a single source with ease.

The classification system defined in BS EN 13501, which Dura Cladding Aluminium Planks are tested to, is quickly becoming the primary recognised standard in the construction industry. Some competitors may reach Class A2 when tested specifically with certain fire rated barriers but fail when following their own install guide (due to lack of airflow). Our tests are conducted to replicate a genuine site install, rather than being fixed to a fire rated barrier.

These attributes, combined with its limited contribution to flame spread mean that if a building was ablaze, fire-fighters' visibility would be less impeded, increasing response speed. In addition, the unique composition of Dura Cladding Aluminium prevents spontaneous re-ignition when the source of the flame is removed – further enhancing its safety properties.

The combustible materials ban applies whenever building work is within the scope of Building Regulations i.e. new construction and refurbishment projects. It will also apply when a building not currently within the scope of the ban undergoes a change of use that means it falls within scope, at which point the external walls should be brought in line with the new requirements.

For more information or for technical advice, please contact us on +44 1255 423601.

**Please note that it is the responsibility of the client and contractor to ensure that your planned design is fully compliant with Building Regulations. For further guidance on fire safety, please refer to the latest government documentation which can be found here: [www.gov.uk/government/publications/fire-safety-approved-document-b](http://www.gov.uk/government/publications/fire-safety-approved-document-b)**

## Tools Required

Dura Cladding Flush Aluminium can be installed using a number of standard tools. The list of tools and supplies you may need includes the following:



Measuring Tape



Spirit Level



Sawhorse/Bench



Combination Square



Hacksaw



Drive Power Drills



Circular Saw with Carbide Blade



12" Blade - 96 Tooth



10" Blade - 80 Tooth



7 1/2" Blade - 60 Tooth

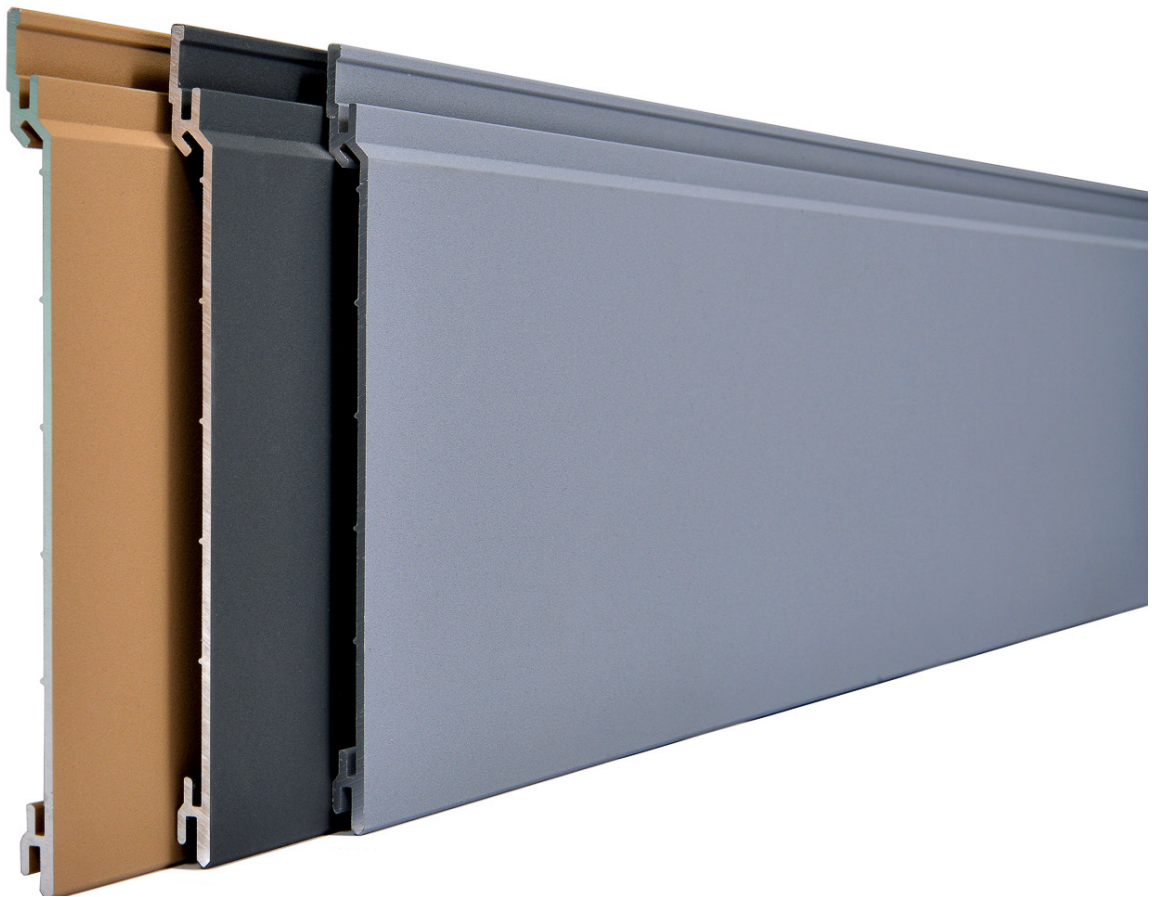
**IMPORTANT:** Only use a drill or drill driver on a low setting. Hammer settings or impact drivers are not compatible with the screw types used for Dura Cladding Aluminium installations and must not be used.

# Materials



## Dura Cladding Flush Aluminium Planks

Dura Cladding Flush Aluminium planks are 3660mm in length, 11mm thick with a 174mm profile. They are designed to be installed in a tongue and groove style, leaving a visible 150mm face on show.



**Please note that colours shown are representative only; actual colours may vary slightly. Dura Composites' manufacturing process results in a high level of colour consistency although some variation in colour may be apparent across planks from different production batches.**



# Dura Cladding Flush Aluminium Accessories

The Dura Cladding Flush Aluminium range includes a simplified range of fast-fit 2 part aluminium trims featuring a M and F part for simple push-fit installation.

There are 7 aluminium trim components, all of which are low profile and powder coated to match or complement the colour of the Dura Cladding Flush Aluminium planks. All trims are available in Cedar, Mist and Anthracite.

**Please note:** The aluminium substructure in this document is referred to as 'bearer'.



**Starter Trim**  
7.5 x 21 x 3660mm



**Expansion Trim  
(M & F Parts)**  
31 x 14 x 3660mm



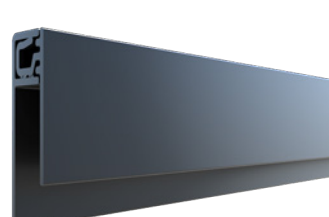
**Window/Door Reveal Trim  
(M & F Parts)**  
37 x 31 x 3660mm



**Corner Trim External Use  
(M & F Parts)**  
49 x 49 x 3660mm



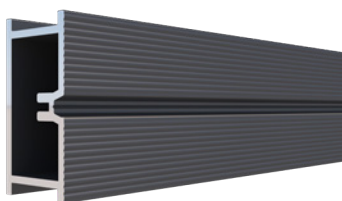
**Corner Trim Internal Use  
(M & F Parts)**  
32 x 32 x 3660mm



**Universal End Closure Trim  
(M & F Parts)**  
14 x 31 x 3660mm



**Back Joint Trim**





















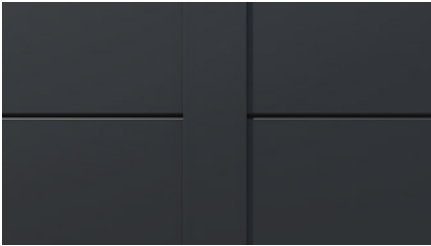




**Aluminium Bearer**  
25 x 48 x 3660mm  
50 x 48 x 3660mm  
75 x 48 x 3660mm






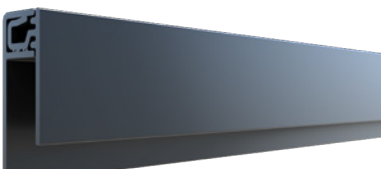




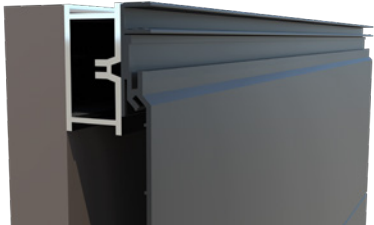








**Countersunk, Self Drilling Stainless  
Steel Screw**

# Fast Fit 2-Part Aluminium Trims

The images below show how the Dura Cladding fast-fit 2 part aluminium trim components (F and M) interlock and fit into a scenario. Please ensure when fitting the Aluminium trims you use the appropriate expansion gap for your project by using the tables on page 30.

<b>Starter Trim</b> (Single Part Trim)	<b>Expansion Trim</b>	<b>Window/Door Reveal Trim</b>
		
Single Part Trim	Base Part (F)	Base Part (F)
		
		
Starter Trim fixed to Aluminium Bearer	Base Part (F) of Expansion Trim with inserted Outer Part (M)	Base Part (F) of Window/Door Trim with inserted Outer Part (M)
		
		
Starter Trim fixed to Aluminium Bearer with Cladding Plank installed	Expansion Trim Base Part (F) in position	Window/Door Reveal Trim Base Part (F) in position
		
	Expansion Trim with inserted Outer Part (M) in position	
		

<b>Corner Trim</b> (External Use)	<b>Corner Trim</b> (Internal Use)	<b>Universal End Closure Trim</b>
		
Base Part (F)	Base Part (M)	Base Part (F)
		
		
Base Part (F) of Corner Trim with inserted Outer Part (M)	Base Part (M) of Corner Trim with inserted Outer Part (F)	Base Parts (F) of End Trim with inserted Outer Part (M)
		
		
Base Part (F) in position when installing as external trim	Base Part (M) in position when installing as internal trim	End Trim Base Part (F) in position
		
		
Combined F + M Parts in position when installing as external trim	Combined M + F Parts in position when installing as internal trim	End Trim with inserted Outer Part (M) in position



# Cladding Preparation



## Decide on which direction to install

It is possible to install Dura Cladding Flush Aluminium in either direction, both vertically and horizontally. Once you have decided where you want your cladding situated, measure the length and width of the total area. Cladding is installed horizontally as standard, but Dura Cladding Flush Aluminium can also be installed vertically to provide a different final look.



## Select the area to be clad and produce a bill of quantities

Before you finalise your order, it is best to choose exactly which part(s) of the building you wish to clad with Dura Cladding. Review the size of the area and then consider the cladding planks and colour matching trims that you may require. It is best practice to produce a bill of quantities based on a computer aided design (CAD) layout, taking into account the plank length (3.66m) – this is something that Dura Composites may be able to assist with subject to sufficient time and information.

Most customers find that it is beneficial to build in a waste factor of 10-15% to account for the inevitable quantity of material that cannot be used due to cutting – this may be more or less depending on the number of cuts required. By taking these factors into account, all of your planks can be delivered in a single load, thus avoiding an additional delivery charge.

# Preparing the Bearers

Now that you know the direction of the cladding and the exact area of your cladding, next you must determine the bearer layout. Dura Cladding Flush Aluminium is supplied with A2 fire rated aluminium bearers to enable the installation of a safer system. Your chosen bearer materials must be fixed to the building using a suitable fixing system and each Dura Cladding plank must be supported every 600mm.

Extra care is required in order to provide sufficient bearers in and around obstacles such as windows, fascias, soffits, guttering, ventilation points etc.

## Bearer Installation

- The Dura Aluminium Bearers used in this example are 25mm x 48mm.
- The first bearer should be 100mm from the floor.
- The bearers should be fixed into position at 600mm centres using a suitable A4 Stainless Steel countersunk screw suitable for substructure.
- Ensure all bearers are plumb to the wall surface.
- Bearers should be no less than 25mm x 48mm wide, A2 fire rated material (up to maximum of 75mm x 48mm).
- Add appropriate bearers for all trims, i.e. around doors and windows.
- Fixing the cladding and trims to the bearer should be carried out using a countersunk screw suitable for your chosen bearer.
- Do not over tighten the screws and adjust torque settings according to your drill manufacturer's instructions.
- For vertical cladding, counter bearers is advised to allow sufficient airflow.





# Installation Steps

# 4

Dura Cladding Flush Aluminium can be installed either horizontally or vertically, according to your aesthetic preference. Your chosen orientation will affect your bearer design however, as these run the opposite way to the cladding, so vertical cladding fixes to horizontal bearers and vice versa.

**Please Note:** Some of the installation steps on the following pages are specific to either horizontal or vertical installations, so please ensure you read them through thoroughly before planning and beginning your installation. If your planned method is not shown in this document, please ensure you consult your Dura Composites representative prior to installation.



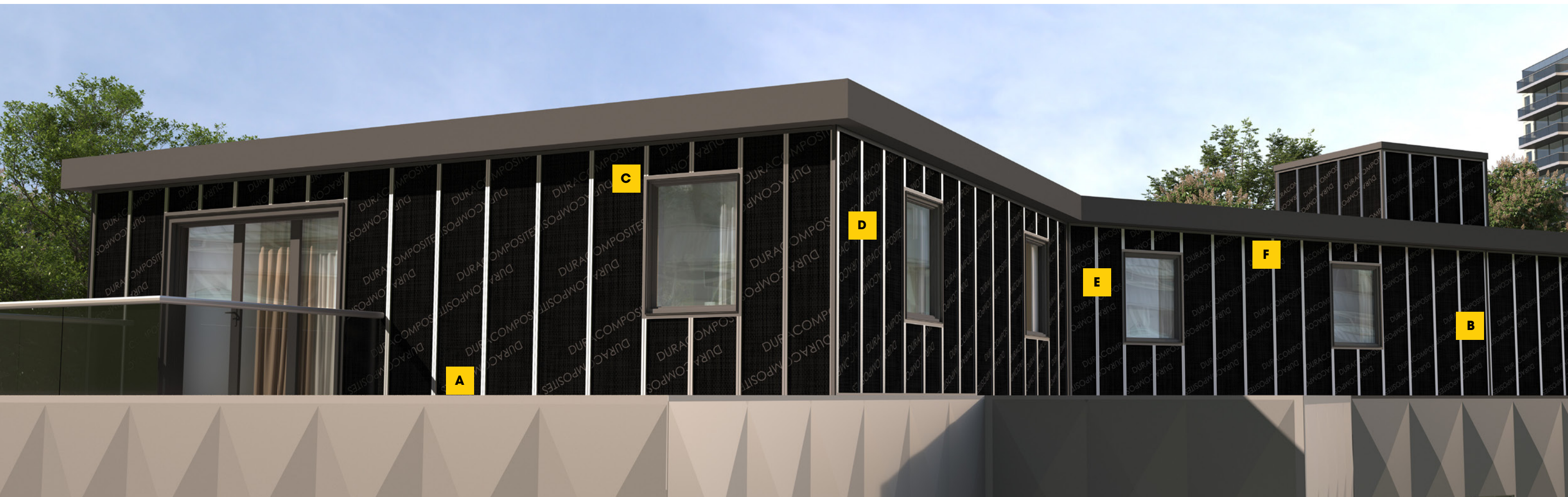


# Horizontal Cladding

## Horizontal Cladding (Dura Cladding Flush Aluminium in Anthracite)

Horizontally installed cladding remains the most popular method and makes a real impression on both new build properties and renovation projects. Installation of the cladding begins with adding all bearers, followed by base part trims, followed by cladding planks then finally outer part trims.

The Dura Cladding Flush Aluminium range includes a simplified range of fast-fit 2 part aluminium trims. There are 6 aluminium trim styles, Internal/External is reversible, all of which are low profile and powder coated to match or complement the colour of the Cladding planks. All trims are available in Cedar, Mist and Anthracite. Installation of the cladding begins with adding all bearers, followed by base part trims, followed by cladding planks then finally outer part trims.



**Starter Trim**  
The starter trim is formed of a single part and is used to begin the cladding run. When fixed to the bearer it provides a resting lip for the first length of cladding.



**Expansion Trim**  
This 2-part trim is used to cover the butt joints between two lengths of cladding and enables expansion. The Outer Part (M) is clipped into place once all planks have been fixed in position.



**Window/Door Reveal Trim**  
The 2-part reveal trim is used to frame around windows and doors. The Base Part (F) of the trim is fixed to the bearer first, then the cladding plank is slotted into place. Once in position, the Outer Part (M) is clipped into place.



**Corner Trim (External Use)**  
The 2-part corner trim is used for external 90° corners and is designed to provide a neat and tidy finish. The Base Part (F) is installed under the cladding, then the Outer Part (M) is added after the planks have been fixed.



**Corner Trim (Internal Use)**  
The 2-part corner trim is used for internal 90° corners. The Base Part (F) is installed under the cladding, then the Outer Part (M) is clicked in once the planks have been installed.



**Universal End Closure Trim**  
This 2-part trim is used to terminate cladding planks to adjacent façades such as: brick, render, soffits and gable ends and should be used in cases where there is no need to create a corner.

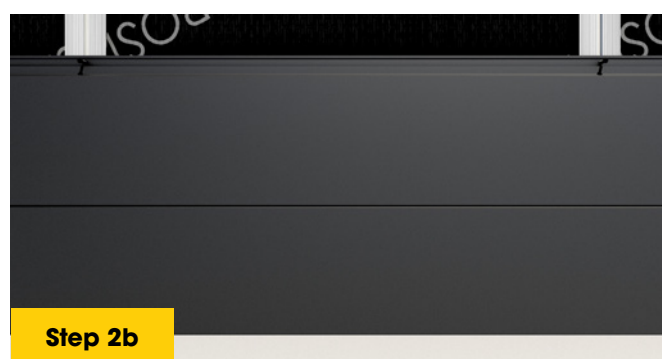
## Step 1: Starter Trim

- Mark level lines on the bearers.
- Place the Starter Trim in position.
- Fixing the Starter trim to the bearer should be carried out using self drilling screws for Aluminium.
- Use the appropriate torque setting to ensure you don't over-tighten the screw.
- Ensure that the Starter Trim is firmly in position, lying flat across bearer faces.
- For vertical cladding, internal, external or close trims can be used.
- Next add all base part trim components and fix into place. Now you are ready to add your first cladding plank.
- Measure your cladding to ensure you are able to install with the recommended expansion gap between the plank end and adjacent base trim part.



## Step 2: First Plank

- Place the Plank in the correct position into the Starter Trim and drill appropriate holes in line with the centre of the bearers.
- Using the same method as the Starter Trim, fix the cladding plank using self drilling screws for Aluminium, starting from the centre and then working outwards towards the ends on both sides. Do not over-tighten the screws.
- Ensure that the Cladding Plank is secure and repeat this process along each plank, checking the level before each plank is fixed. If using back joint profile to join two planks where no bearer is sited, you must insert the profile between the two planks before fixing the planks to the bearer.
- Make any slight adjustments as required.



## Step 3: External (Corner) Trim

- The base part (F) of External Trim will already be in position.
- Again, ensure your cladding planks have been measured and cut to allow appropriate expansion gaps.
- Fix planks into position using your chosen screw.
- The outer part (M) of the Corner Trim will not be added until after all your planks have been installed. Once installation is complete the M part trim can be added using a push-fit technique.

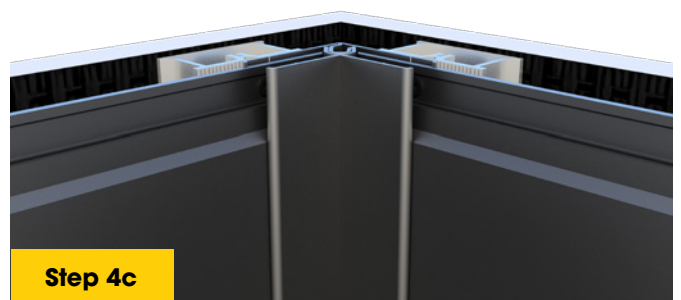






## Step 4: Internal (Corner) Trim

- Cladding should be positioned adequate expansion gaps following the same method as the External Corner Trim above.
- The outer part (F) of the Corner Trim can be added after your planks have been installed using a push-fit technique.

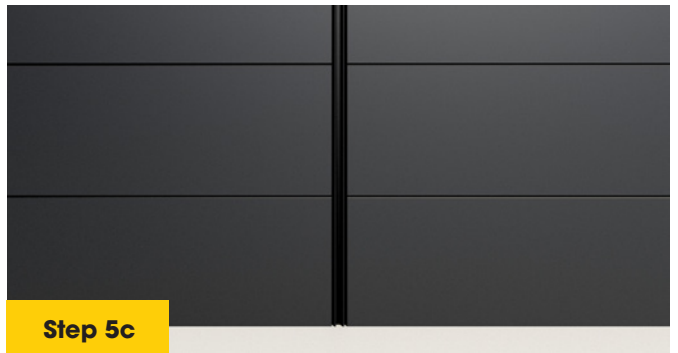
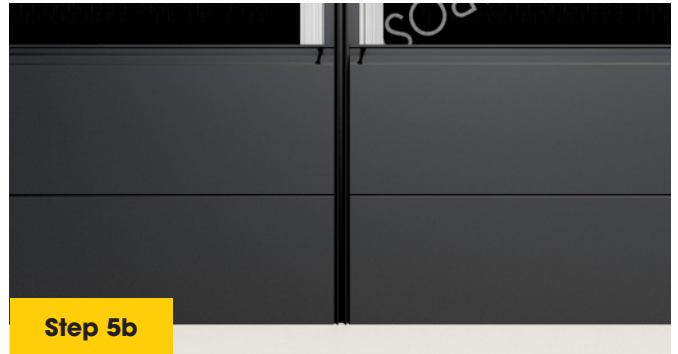


## Step 5: Expansion Trim

- The Expansion Trim can be used to cover the butt joints between two lengths of cladding and enables expansion.
- The base part (F) of your expansion trim will already be in position following your initial battening.
- Once all of the planks have been fixed into position, clip the outer part (M) into place using a push-fit technique.

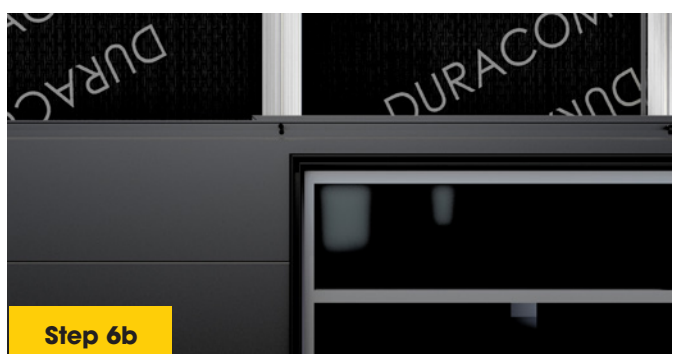






## Step 6: Window/Door Reveal Trim

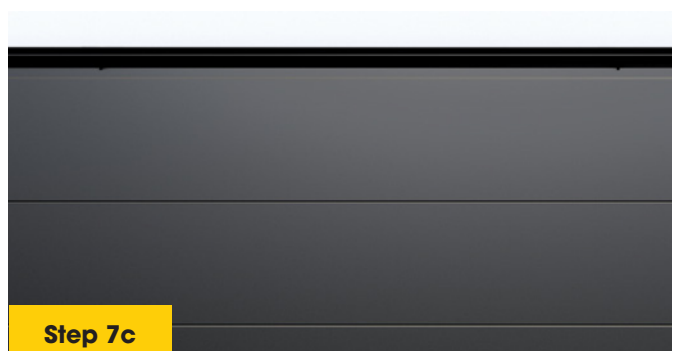
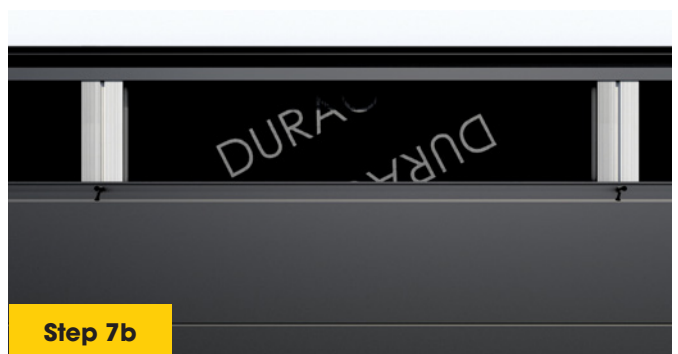
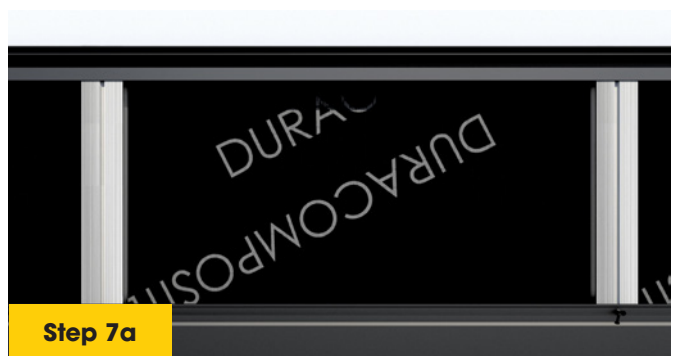
- Bearers should be no less than 25mm x 48mm Aluminium Bearers.
- Following the fixing of your bearers into position, measure the required amount of Reveal Trim and cut to required length.
- Mitre down at 45 degrees on the Reveal Trim ends if being placed next to each other at wall edges (Step 6).
- Place the base part (F) of the trim over the bearer, pre-drill and Screw into place with countersunk A2/ A4 Stainless Steel screws.
- Only slot the cladding planks into place once all base part trims have been installed.
- Once planks are in position, the outer part (M) of the trim can be clipped in.





## Step 7: Universal End Closure Trim

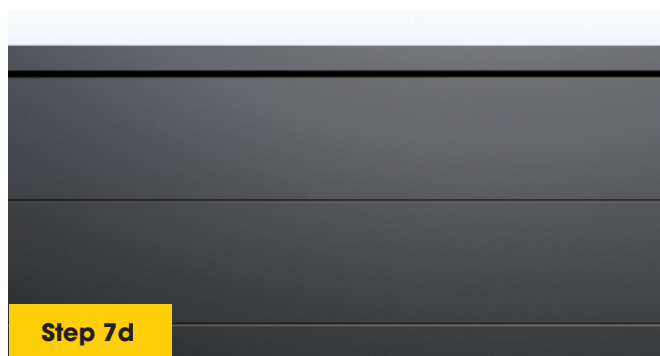
- This 2-part trim is used to terminate cladding planks to adjacent façades such as brick, render and gable ends and should be used in cases where there is no need to create a corner.
- The procedure for fitting this 2-part trim is similar to the previous trim parts. The base part (F) should be installed first and then after the last cladding plank is installed, the outer part (M) of the End Closure Trim can be snapped into the base part (F) to provide a neat finish.



## Optional

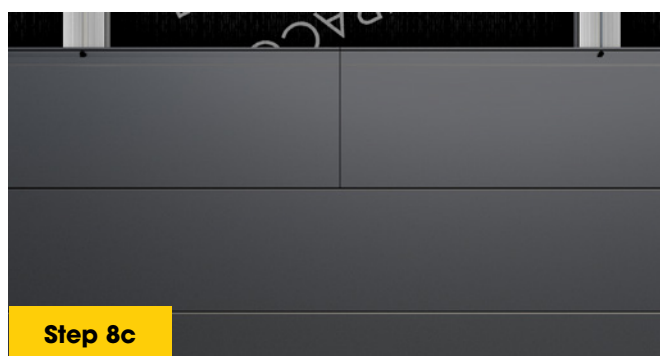
### Step 8: Back Joint Trim

- There are two scenarios where using the back joint trim may be applicable: where the joint is not over the bearer or where there are larger areas with multiple joints.
- Orientate back joint plates to fit slots in the reverse face of the cladding in the aim to have 50% inserted.
- Slide the next cladding plank onto the exposed remainder of the joint trim and close leaving the recommended expansion joint gap. Please see page 30.



### Finishing the Last Plank

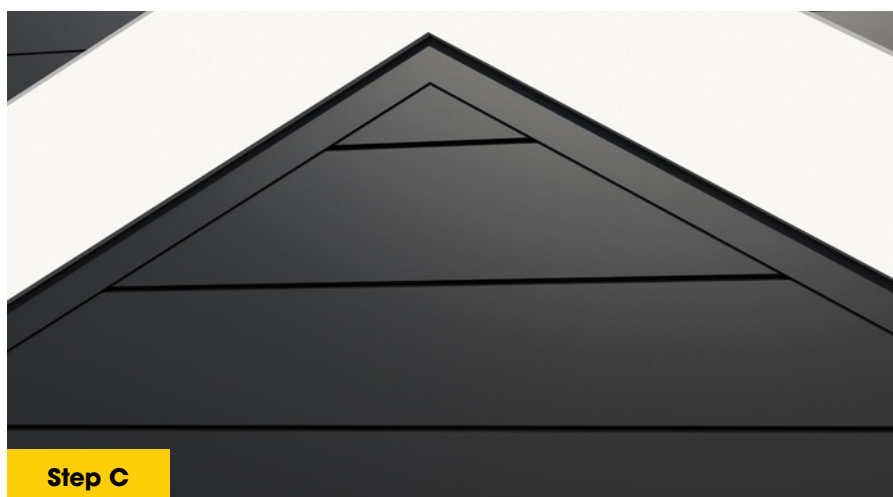
- It is unlikely that cladding installed horizontally on the wall will terminate on a full width plank, and if this is the case it may be necessary to cut the last plank down in width. If you require any further information or support, please visit our website at **www.duracomposites.com** or call us on **+44 (0)1255 440290** where one of our knowledgeable staff will be happy to help.



## Finishing Gable Ends

There are 2 methods for finishing cladding at gable ends or dormer windows.

1. Ending with the Universal End Closure Trim – this method is largely adopted if the application is a refurbishment or re-installation of cladding.
2. Alternatively, a PVC or similar barge plank & soffit from another manufacturer can be used to conceal the top of the cladding – this system is generally used on a new build project or if the barge plank & soffit is being replaced. Please ensure that any supplementary materials you choose meet the fire rating requirements of your project.



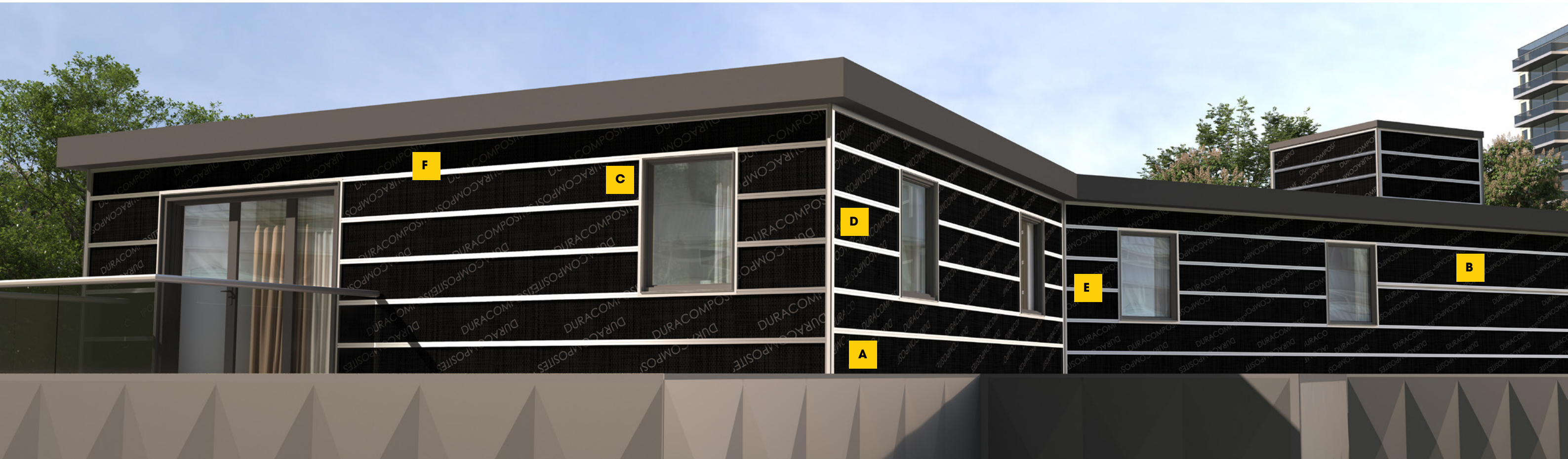


# Vertical Cladding

## Vertical Cladding (Dura Cladding Flush Aluminium in Anthracite)

To begin vertical installation, first install all bearers ensuring they are plumb to the wall and appropriate counter-battening has been used. Next, place the base part (F) of the Universal End Closure Trim (or other preferred trim) into position, followed by the Starter Trim laid vertically. Next fix the Starter Trim through the base part (F) of the Universal End Closure Trim (or other preferred trim) and ensure it is securely fixed to bearer.

Architects and designers looking to add the illusion of height and a uniform appearance to a building are increasingly opting for vertical cladding board installations. When installed vertically, Dura Cladding Flush Aluminium creates stunning contemporary finish.



**Starter Trim**  
The starter trim is formed of a single part and is used to begin the cladding run. When fixed to the bearer it provides a resting lip for the first length of cladding.

Please Note: The Starter Trim is used in conjunction with other trims.



**Expansion Trim**  
This 2-part trim is used to cover the butt joints between two lengths of cladding and enables expansion. The outer part (M) is clipped into place once all planks have been fixed in position.



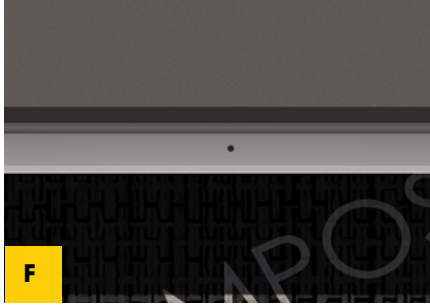
**Window/Door Reveal Trim**  
The 2-part reveal trim is used to frame around windows and doors. The base part (F) of the trim is fixed to the bearer first, then the cladding plank is slotted into place. Once in position, the outer part (M) is clipped into place.



**Corner Trim (External Use)**  
The 2-part corner trim is used for external 90° corners and is designed to provide a neat and tidy finish. The base part (F) is installed under the cladding, then the outer part (M) is added after the planks have been fixed.



**Corner Trim (Internal Use)**  
The 2-part corner trim is used for internal 90° corners. The base part (F) is installed under the cladding, then the outer part (M) is clicked in once the planks have been installed.

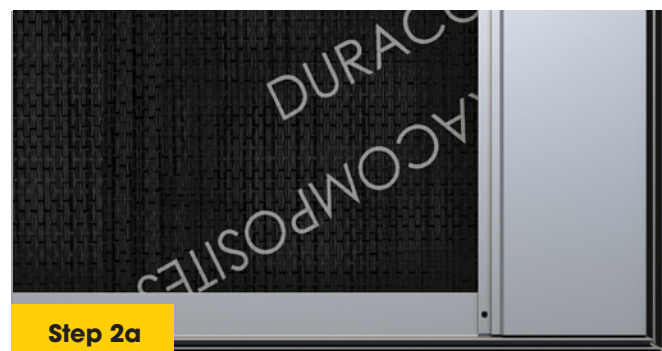


**Universal End Closure Trim**  
This 2-part trim is used to terminate cladding planks to adjacent façades such as: brick, render, soffits and gable ends and should be used in cases where there is no need to create a corner.

## Step 1: Use of the Starter Trim and Universal End Closure Trim

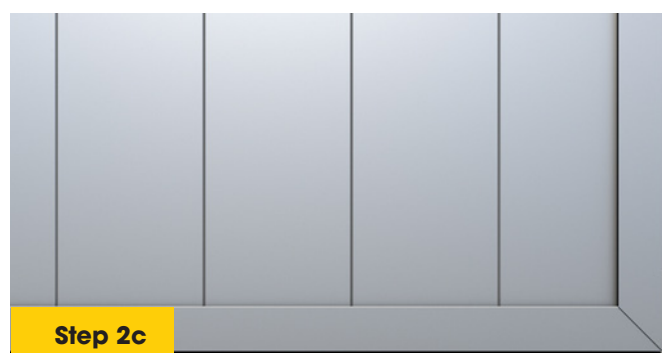
- Use the appropriate torque setting to ensure you don't over-tighten the screw as this will restrict expansion and contraction.
- Ensure that the Trims are firmly in position, lying flat across bearer faces.
- Ensure that you add all of the base part (F) trims needed for your project before any cladding planks are installed.
- The outer part (M) can be only added once all the cladding planks have been fixed into position.

**Please note:** When starting from a corner or edge with vertically installed cladding, remember to use the starter trim in conjunction with your trim option to ensure correct alignment and depth of cladding.



## Step 2: First Plank

- Place the Plank in the correct position on the UEC Trim ensuring the fixing positions line up with the bearers. (Drill appropriate holes if required).
- Fix the cladding plank using a self drilling screw for Aluminium starting from the centre and then working outwards towards the ends on both sides.
- Once again, do not over-tighten the screws.
- Ensure that the cladding plank is secure.
- Repeat this process, checking the level before each plank is fixed. Slight adjustments may be required.

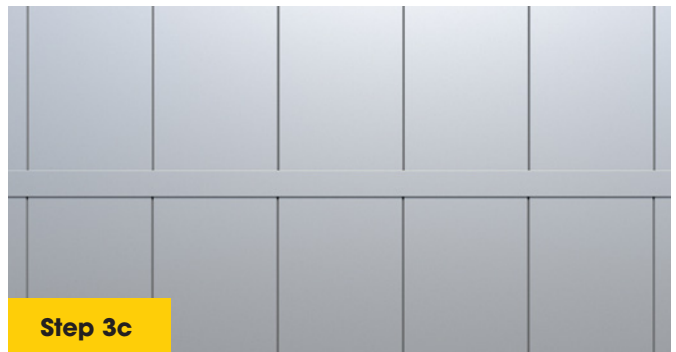


## Step 3: Expansion Trim

- Cut down the Expansion Trim to the length required.
- Screw the base part (F) into place with countersunk A2/A4 Stainless Steel screws on to the bearer.
- The outer part (M) is clipped into place once all planks have been fixed in position.

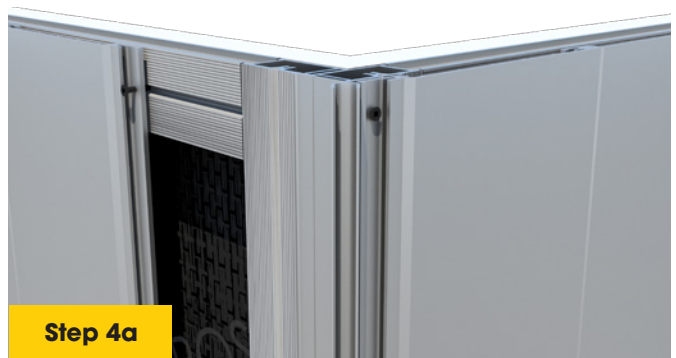






## Step 4: External (Corner) Trim

- Cut External Trim to the length required.
- Place the External Trim in position and mark on bearers to show where the Cladding Planks will finish.
- NOTE: Expansion gaps same as before text, but only in plank adding section
- Fix the base part (F) into position with self drilling screws for Aluminium.
- Push-fit the outer part (M) of the trim into position once all the planks have been added.



## Step 5: Internal (Corner) Trims

- Cut the trim to the lengths required.
- Position the base part (F) of the Internal Trim onto the bearers.
- Cladding should be positioned approximately half way into the recess to ensure that a suitable gap (refer to Gap Guide) is allowed for expansion and contraction.
- Fix into position and then add the outer part (M) of the trim once all cladding planks have been fixed.



## Step 6: Reveal Trim

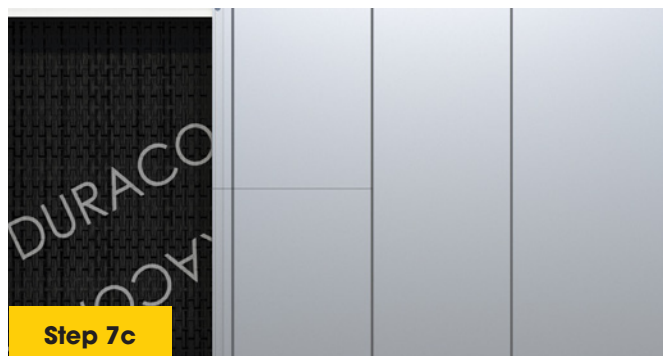
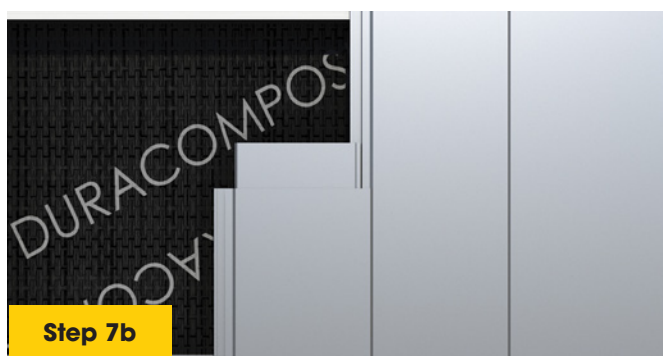
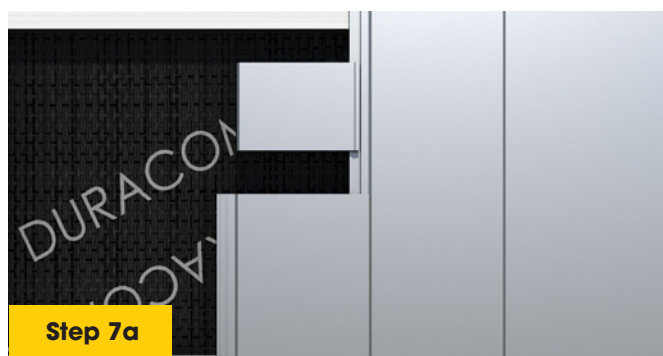
- Bearers should be no less than 25mm x 48mm Aluminium Bearers.
- Measure the required amount of Reveal Trim and cut to the length required.
- Mitre down at 45 degrees on the Reveal Trim ends if being placed next to each other at wall edges (Step 6).
- Place over the Bearer, pre-drill and Screw into place.
- Position the Trim. Mark and cut where appropriate. mitring or butt joining is acceptable.
- Push outer part (M) of trim into place once all surrounding planks have been fixed.



## Optional

### Step 7: Back Joint Trim

- There are two scenarios where using the back joint trim may be applicable: where the joint is not over the bearer or where there are larger areas with multiple joints.
- Orientate back joint plates to fit slots in the reverse face of the cladding in the aim to have 50% inserted.
- Slide the next cladding plank onto the exposed remainder of the joint trim and close leaving the recommended expansion joint gap. Please see page 30.



## Finishing Gable Ends

There are 2 methods for finishing cladding at gable ends or dormer windows.

1. Ending with the Universal End Closure Trim – this method is largely adopted if the application is a refurbishment or re-installation of cladding.
2. Alternatively, a PVC or similar barge plank & soffit from another manufacturer can be used to conceal the top of the cladding – this system is generally used on a new build project or if the barge plank & soffit is being replaced. Please ensure that any supplementary materials you choose meet the fire rating requirements of your project.

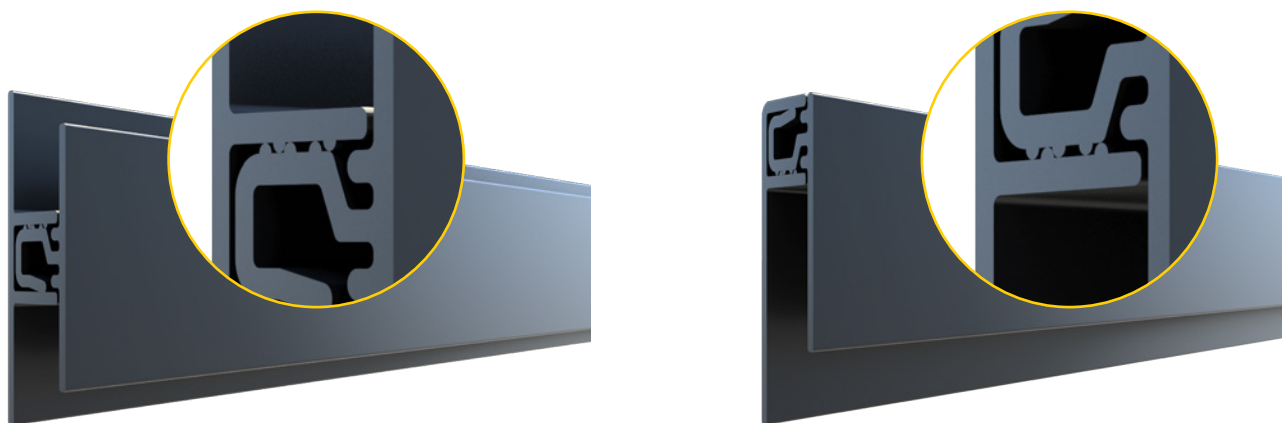


## Additional Notes for both Horizontal and Vertical Surface Mounted Features

Where building features, such as gutters, canopies etc. are to be fixed, additional bearer work should be included. Additional pilot holes must be drilled through the Dura Cladding Flush Aluminium planks to the substrate.

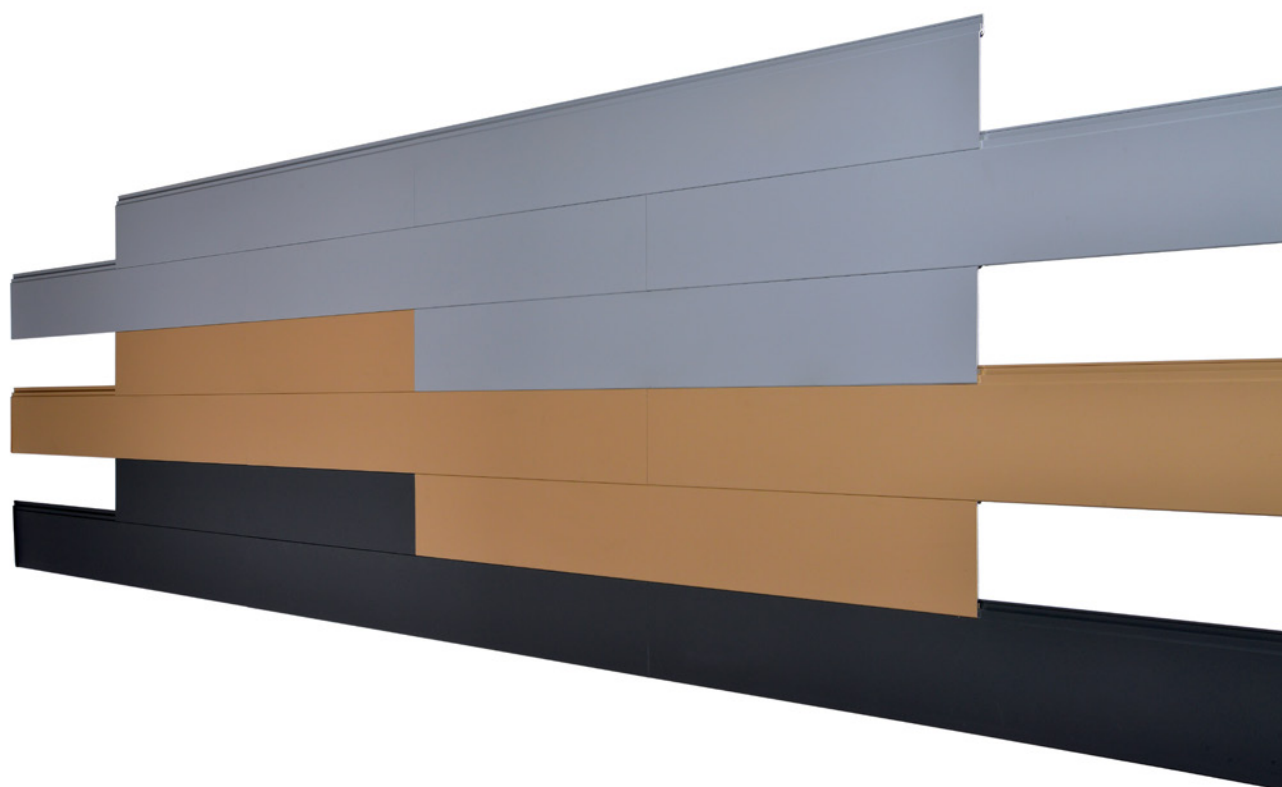
**Please note: Under no circumstances should Dura Cladding Flush Aluminium planks receive additional structural loads, e.g. signage.**

Trims must be installed teeth to teeth as shown in the images below, to ensure they can be separated if required at a later stage.



## Recycle Off Cuts Wherever Possible

Dura Cladding Aluminium is a great choice if you're looking for sustainable solutions. 100% of the finished product can be recycled repeatedly, meaning it need never end up in landfill. If unsure, always contact your local governing body/council for more information.





## Finished Horizontal and Vertical Projects





## Additional Info



## Maintenance and Cleaning

### Caring for your Cladding

Dura Cladding Aluminium doesn't stain, fade or rot, so will only require minimal cleaning throughout its life cycle. The best method to clean it is to wash it using a solution of warm water and non-abrasive, pH neutral detergent.

### Pressure Washing

Pressure washers up to 1500psi may be used to remove stubborn stains. Always keep the pressure washer nozzle at least 25cm (10 inches) from the surface and avoid concentrated spraying on one area for more than 3 seconds. The use of a pressure washer in the correct manner will not shorten the life of the material.

### Marking

Always use a non-permanent marker such as a dust-off marking chalk to mark cutting and plumb lines.

### General dirt and debris

Spray with a hose to remove surface debris. Use warm soapy water and a soft-bristled brush to clear dirt and/or debris from grooves or contours. Pressure wash to remove more stubborn stains.

### Household Cleaners

The powder coated finish requires a basic cleaning regime. Strong and abrasive household cleaners are harmful to powder coating and must not be used for cleaning purposes under any circumstances. Acidic, alkaline or alcohol-based cleaning products should also not be used. Stick to a non-abrasive, pH neutral detergent for best results. With any cleaning product, test it on a small, inconspicuous area first, following the cleaning manufacturer's instructions.

### Disposal

Dura Cladding Flush Aluminium is a great choice if you're looking for sustainable solutions. 100% of the finished product can be recycled repeatedly, meaning it need never ends up in landfill. If unsure, always contact your local governing body/council for more information.

# Data



## Technical Specifications

### Material

6063-T6 Series Grade Aluminium.

### Building/Project Suitability

- All Public & Private Buildings requiring A2 Fire Rated Cladding
- New Builds
- Garden Rooms and Outbuildings
- Pubs & Hotels
- Commercial Buildings & Warehouses
- Domestic Properties

Item	Method	Test Requirements	Test Results	Pass or Fail
<b>Dry Adhesion</b>	ISO 2409	Cross-cut test: GT=0.	GT=0.	Pass
<b>Boiling Water Test</b>	Qualicoat ISO 2409	No blistering in excess of 2 (S2) according to ISO 4628-2. There shall not be any defects or detachment. Some colour change is acceptable. Cross-Cut Test: GT=0.	No blistering and detachment on the surface. Cross-Cut Test: GT=0.	Pass
<b>Acetic Acid Salt Spray Test</b>	Qualicoat ISO 9227	No blistering in excess of 2 (S2) according to ISO 4628-2. An infiltration of maximum 16mm <sup>2</sup> is allowed over a scratch length of 10cm but the length of any single infiltration shall not exceed 4mm.	No blistering on the surface. Over a scratch length of 10cm an infiltration of maximum is 3mm <sup>2</sup> and the length of and single infiltration is 1mm.	Pass
<b>Thermal (Flammability Resistance)</b>	Test method: EN13501-1 (EN ISO 9239-1 and EN ISO 11925-2)	"The standard includes seven classification levels, from A1 to F, with A1 representing the highest level of performance and F representing the lowest level. Please note that our 25mm, 50mm and 75mm bearers are also covered under the Dura Composites test certificate. A copy is available on request.	A2-s1, d0 Achieved in both horizontal and vertical installations in all colours.	UKAS Accredited Lab

While the above test data is considered to be true and correct at the date of publication, changes to the product composition after the time of publication may impact on the accuracy of the data. Please consult your Dura Composites representative for copies of the most up to date test data available. Please note that it is the responsibility of the purchaser to make their own decisions about the accuracy, recency and correctness of the information provided in the entirety of this document, and the product's suitability for their specific application.

# Gap Guides

The tables below must be used to ensure the correct amount of space is left between each plank during installation.

## Dura Cladding Aluminium Recommended Gap Tables (Europe)

Installation Air Temp (°C)	Dura Deck Aluminium Expansion Gap Guide (mm)			
	3660mm Plank	3000mm Plank	2000mm Plank	1000mm Plank
-10	3.6	3.0	2.0	1.0
-5	3.2	2.6	1.8	1.0
0	2.8	2.3	1.5	1.0
5	2.4	2.0	1.3	1.0
10	2.0	1.7	1.1	1.0
15	1.6	1.3	1.0	1.0
20	1.2	1.0	1.0	1.0
25	1.0	1.0	1.0	1.0
30	1.0	1.0	1.0	1.0
35	1.0	1.0	1.0	1.0

\*Assuming worst case scenario of aluminium range installed at -10°C and reaching +35°C

## Dura Cladding Aluminium Recommended Gap Tables (Middle East)

Installation Air Temp (°C)	Dura Deck Aluminium Expansion Gap Guide (mm)			
	3660mm Plank	3000mm Plank	2000mm Plank	1000mm Plank
10	3.6	3.0	2.0	2.0
15	3.2	2.6	1.8	1.8
20	2.8	2.3	1.5	1.5
25	2.4	2.0	1.3	1.3
30	2.0	1.7	1.1	1.1
35	1.6	1.3	1.0	1.0
40	1.2	1.0	1.0	1.0
45	1.0	1.0	1.0	1.0
50	1.0	1.0	1.0	1.0
55	1.0	1.0	1.0	1.0

\*Assuming worst case scenario of aluminium range installed at +10°C and reaching +55°C

## Head Office

**Dura Composites Ltd**  
Dura House, Telford Road  
Clacton On Sea  
Essex, CO15 4LP  
United Kingdom

Tel: +44 (0)1255 440299  
Email: [info@duracomposites.com](mailto:info@duracomposites.com)

[www.duracomposites.com](http://www.duracomposites.com)

**Unlocking the Power of Composites™**  
**» for the Cladding & Façades**

Due to our policy of continual improvement we reserve the right to change specifications at all times without prior notice.

**dura**®  
**composites**

