



am-clad

premium cladding systems



SYSTEM DATA SHEET



am-clad

corner & ceiling coving system

95mm Coving System
PVC coving for biosecure
pharma, labs and cleanrooms

AM-Clad.com

AM-Clad 95mm PVC Corner and Ceiling System

The AM-Clad Antibacterial PVC Coving System is designed to work in conjunction with our 2.5mm hygienic and antimicrobial cladding sheets to create perfect corner and ceiling joints for biosecure, healthcare and cleanroom environments.

Our coving system is compliant with all relevant UK, European, USA and worldwide regulations and standards and has a proven track record in all sectors where maintaining sterile environment is paramount.

The five modular PVC components in the AM-Clad Coving System create antibacterial wall and ceiling joints for internal and external corners. All components are installed using hot or cold-welded seams and are compatible with both thermoformed and non-thermoformed corners.

The curved shape of the antibacterial Coving prevents germs from collecting and propagating in corners and recesses.

All AM-Clad Antibacterial Coving components are made from premium grade PVC which is non-toxic and UV-stabilised to avoid fading. The trims offer high levels of chemical and impact resistance.

The main 3m Curved Coving Lengths are 95mm x 95mm and can be installed horizontally and vertically in conjunction with our 2.5mm cladding sheets and our range of matching internal and external corner trims.

For further information or technical advice:

Call 01274 020 331

Email: info@am-clad.com



The AM-Clad Antibacterial Coving System meets ISO (worldwide), BS (UK), EN (Europe) and FDA (USA) standards and current Good Manufacturing Practice guidelines. It is trusted by leading building contractors, architects, specifiers and surveyors.

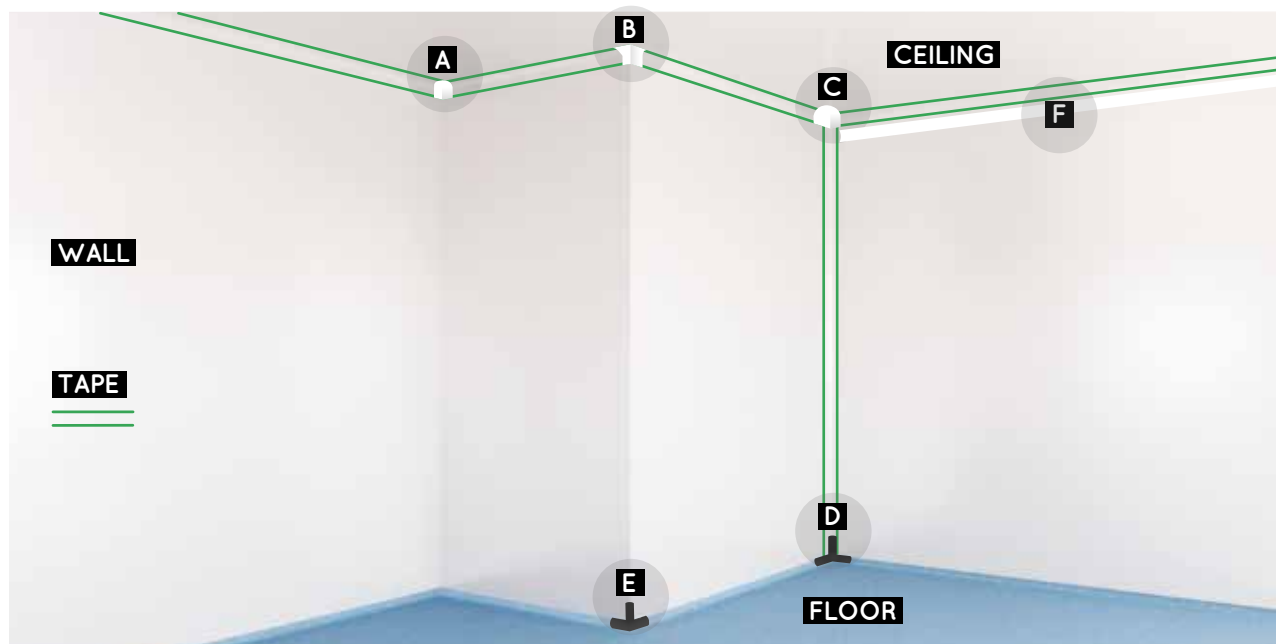
Suitable for:

Cleanrooms for medical device, pharmaceutical, biopharma, plasma, electronics and advanced manufacturing;

Laboratories for chemical, biological, and medical research, IVF and advanced electronics;

Healthcare settings including operating theatres.

Simple and effective Coving Joints



Coving Joint Types

A 2-Point Internal Corner Ceiling Coving Trim

C 3-Point Internal Corner Ceiling Coving Trim

E External Corner Floor Joint

B External Corner Ceiling Coving Trim

D Trimitre™ Internal Corner Floor Joint

F Coving Length

There are six components in our curved Coving System and they work together to ensure an antibacterial transition between walls and ceilings.

All AM-Clad Coving trims shown above must be fitted before any wall cladding sheets are fitted.

Important - fitting the trims first

You will find a Step-by-Step Installation Guide on pages 6 and 7. It is vital that the coving components are fitted in the right order.

The PVC coving trims are fitted using double-sided tape. The internal and external corner trims are fitted first. Then the 3m (10') Length trims are cut to size and fitted horizontally to the ceiling and vertically in internal corners – see the green tape lines in the above diagram.

Only when all the Coving is in place can the 2.5mm AM-Clad PVC sheets be installed and butted up to the coving trims leaving a 3-4mm expansion gap that will be filled with a hot or cold weld rod seam. Cladding sheets should never overlap the Coving Corner trims.

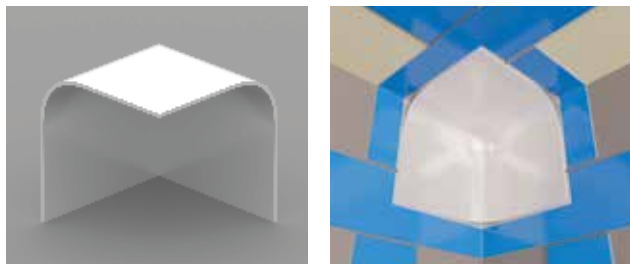
Hot or cold-welded joints are required at all junctions between the Coving trims and the Coving Lengths. This achieves the highest hygienic standards.

Coving Corner Trims

The three ceiling corner trims and the two floor joints fit in 90° corners and should be fitted first before the Coving Lengths are cut to size and butted up to the edge of the corner trims.

All Coving Corners and Coving Lengths must be fitted correctly before fitting the wall cladding.

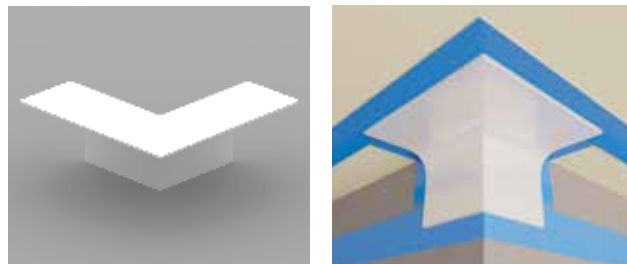
A 2-Point Internal Corner Ceiling Coving Trim



Internal Corner Antibacterial Ceiling Coving creates perfect joints with two horizontally fitted 95mm x 95mm Coving Lengths and AM-Clad 2.5mm sheet 90° thermoformed internal corners.

An expansion gap of 3mm to 4mm between the Internal Corner and the Coving Length / AM-Clad sheet should be filled with Weld rod or clean room sealant.

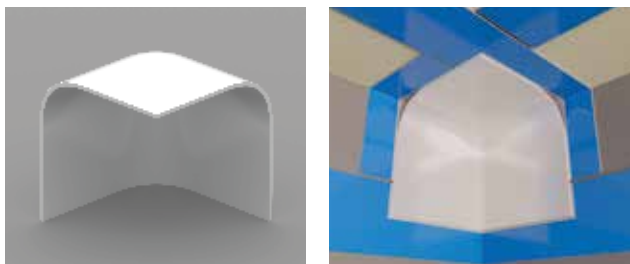
B External Corner Ceiling Coving Trim (186 x 186mm)



External Corner Antibacterial Ceiling Coving creates perfect joints with two horizontal 95mm x 95mm Coving Lengths and with AM-Clad 2.5mm sheet 90° thermoformed external corners.

An expansion gap of 3mm to 4mm between the External Corner and the Coving Length / AM-Clad sheet should be filled with Weld rod or clean room sealant.

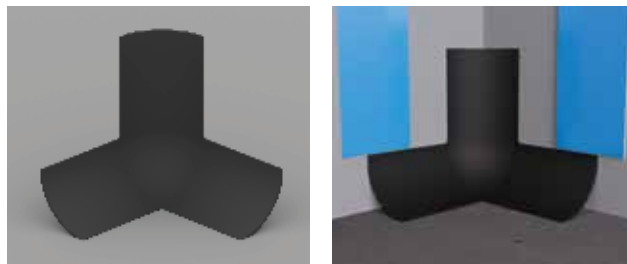
C 3-Point Internal Corner Ceiling Coving Trim



Internal Corner Antibacterial Ceiling Coving creates perfect joints with two horizontal 95mm x 95mm Coving Lengths and one vertical 95mm x 95mm Coving Length.

An expansion gap of 3mm to 4mm between the Internal Corner and the Coving Length / AM-Clad sheet should be filled with Weld rod or clean room sealant.

D Trimitre™ Floor Joint

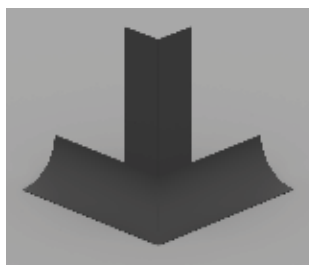


The Trimitre™ Floor Joint is perfect for internal corners where a vertical Coving Length is fitted. The proven design is patented by Cutting Corners and simplifies the process of fitting safety flooring.

The Trimitre™ floor joint is **not** visible after the vertical Coving Length and the safety flooring have both been fitted over the curved contours of the joint.

Coving Corner Trims cont...

E External Corner Floor Joint



The External Floor Joint is made from black PVC and is a specialist joint which ensures that safety flooring fits evenly and neatly into external corners.

The proven design by Cutting Corners simplifies the process of fitting safety flooring.

A sharp blade is needed to carefully cut the vinyl floor around the external joint and the small gap should be filled with weld rod.

Note: the External Corner floor joint trim is not visible after the safety flooring and the PVC wall cladding sheets have been installed.

F Coving Length 3000mm (10') x 95mm x 95mm

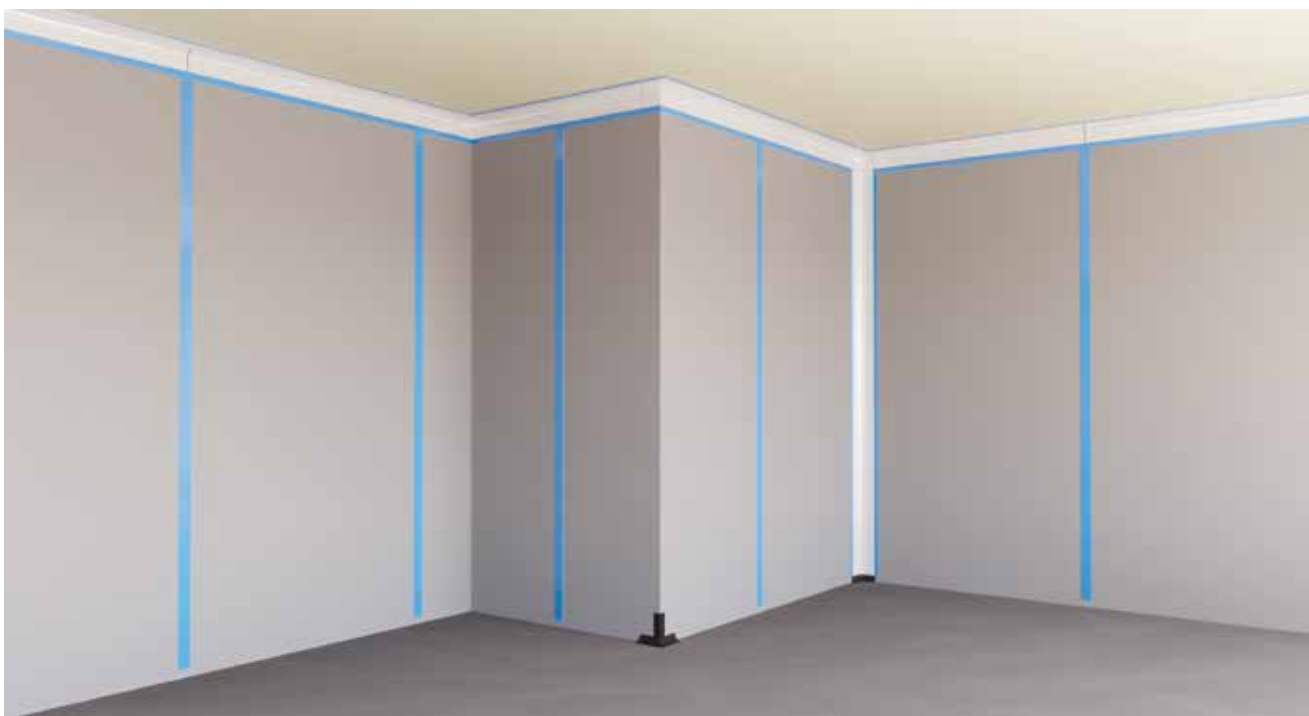


The curved Antibacterial PVC Coving Lengths are the largest component of the system. They are fitted horizontally at wall-to-ceiling joints and vertically in internal corners as seen in the photograph below.

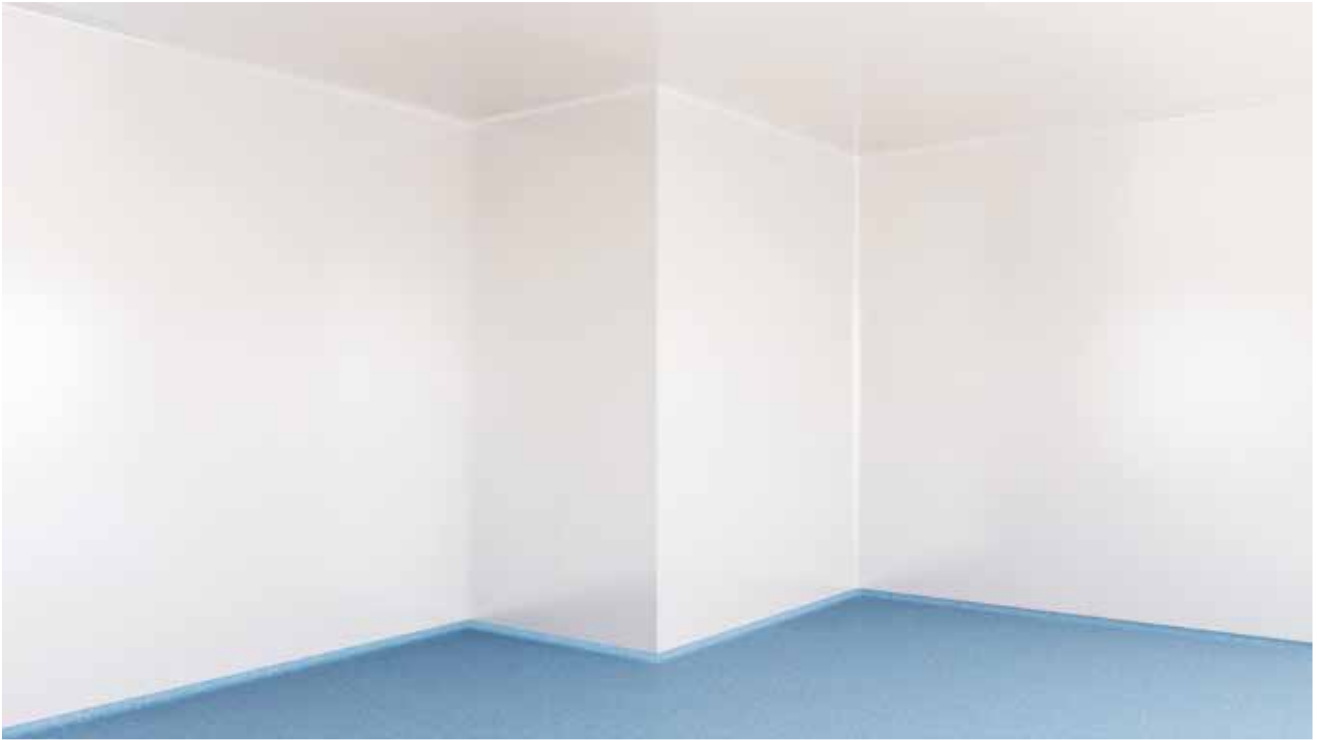
Always install in conjunction with the appropriate Corner Coving Trims (A, B or C) and leave a 3-4mm expansion gap between the Lengths and trims.

The blue protective film on the Coving Length should be kept in place until the installation is complete. This will ensure clean edges, free of adhesive and sealant residue.

An installation after all the Coving Trims and Lengths have been fitted



Step-by-step Coving Installation



In addition to the steps below, we strongly recommend viewing the AM-Clad Ceiling Coving Installation film [\[link tba\]](#) for a detailed visual guide to fitting our system.

Step 1

Carefully measure and mark lines on the wall and ceiling where double-sided tape will be applied behind all joints between Coving system components and the AM-Clad PVC sheets.

Step 2

Place double-sided foam tape centrally along the marked lines on the walls and ceiling and leave the safety film in place on the side facing into the room.

Step 3

Using a sharp knife, accurately remove half strips of the safety film from the double-sided tape where the Coving Corners will be fitted. Fit all of the Coving ceiling corner joints first, before fitting the Coving Lengths.

Step 4

Note: the protective film on Coving trims and PVC wall cladding sheets can be peeled back slightly but left in place until all trades have completed their work. This will protect the cladding system from dust and prevent static build up. When all work is complete, the film can be peeled off.

Step 5

Ensure you leave a 3mm to 4mm expansion gap between adjoining Coving Corner trims, Coving Lengths and 2.5mm AM-Clad PVC sheets. Weld Rod will be applied in these gaps. Do not leave a gap exceeding 4mm.

Continued overleaf...

Step-by-step Coving Installation cont...

Step 6

Using a sharp knife, accurately remove half strips of the safety film from the double-sided tape where the Coving Lengths will be fitted. The safety film on the remaining half of the double-side tape is left in place to protect it from dust before the AM-Clad sheets are fitted.

Step 7

The patented Trimitre™ Internal Corner Floor Joint should be placed in the corner before vertical Coving Lengths are fitted.

Step 8

If you are required to clad the ceiling, you should always do this before cladding the walls. A grid of double-sided tape should be at all joints between the AM-Clad PVC sheets. Apply 2-part Adhesive to the back of the sheets with a notched trowel and peel off the safety film from the double-sided tape joints on the ceiling before fitting the sheets. Leave a 3mm to 4mm expansion gap between all joints. The protective film on the AM-Clad sheets should be peeled back slightly from the edge of sheets and left on the sheet until all trades have completed their work.

Step 9

After all ceiling cladding is complete, safety flooring should be fitted. All Internal Corner and External Corner Floor Joints should be in place before the flooring is fitted.

Step 10

After the flooring is fitted, the wall cladding to be fitted should be the thermoformed internal and external corners. A carefully measured grid of double-sided tape should be applied to the walls at all of the wall cladding joints. Peel off the film from the double-sided tape joints and install the thermoformed Am-Clad sheets with 2-part Adhesive applied to the back of the sheets with a notched trowel. Leave a 3mm to 4mm expansion gap between all joints. The protective film on the AM-Clad sheets should be peeled back slightly from the edge of sheets and left on the sheet until all trades have completed their work.

Step 11

Cut the AM-Clad wall cladding sheets to size as needed when butting them up to the installed thermoformed sheets. Apply 2-part Adhesive to the back of the sheets with a notched trowel before fixing. Leave a 3mm to 4mm expansion gap between all joints. The protective film on the AM-Clad sheets should be peeled back slightly from the edge of sheets and left on the sheet until all trades have completed their work.

Step 12

When all sheets are fitted, carefully apply the weld rod into the 3.5mm expansion gaps left between all joints (see 12.a below). If you use a heat gun, allow the weld rod to cool for 30 minutes to reach room temperature.) Then carefully trim off excessive weld using a specialist Mozart blade - in a single pass, where possible (see 12.b below.) Take care not to scratch the Coving or the PVC sheets during this process.



12a. Apply weldrod in the 3.5mm expansion gaps



12.b After cooling, trim the weld rod with a Mozart blade

Extruded semi-rigid UPVC sheet

Performance: Antibacterial and UV-stabilised.

Colours: White.

Surface finish: Smooth, satin finish.

Measurements

3m (10') Curved Coving Lengths

L: 3050mm (10') x W: 95mm x W: 95mm

2-Point Internal Corner Ceiling Coving Trim

H: 95mm x W: 95mm x W: 95mm

3-Point Internal Corner Ceiling Coving Trim

H: 95mm x W: 95mm x W: 95mm

External Corner Ceiling Coving Trim

Ceiling plate area W: 186mm x W: 186mm

Side joints: 95mm x W: 95mm

Trimitre™ Internal Corner Floor Joint

H: xxmm x W: xxmm x D: 95mm

External Corner Floor Joint

H: xxmm x W: xxmm x D: 95mm

Weight: 3.5 kg per m²

Service temp: -10°C to +60°C

Flammability

AM-Clad Coving trims are self-extinguishing and comply with the most demanding international fire resistance standards defined for plastics, as shown below.

Standard:	Classification:
EN 13501	B, s3, d0
DIN 4102	B1
BS 476/7	Class 0
NSP 92501,5	M1
ASTM E 84	Class A

Chemical Resistance

High resistance to mineral acids, alkalis, plating solutions, paper making chemicals, pickling solutions, inorganic solutions and fumes. Good resistance to alcohols, aliphatic hydrocarbons, glycols, amines, phenols. Not recommended for contact with ketones, chlorinated solvents, aromatic hydrocarbons, some esters and ethers.

Surface Preparation

Coving and sheets should be fitted to a plumb, clean surface and can be fitted over existing tiles, brickwork, blockwork, plaster walls and ceilings and boarded-out stud partitions. Fix directly to the dry substrate using AM-Clad 2-Part Adhesive.

Cutting lengths to fit

Coving Lengths can be cut to size using an appropriate saw. The protective film should be left in place until all trades have completed their work.

Joints

Hot or cold welded joints are required at the junctions between the Coving Corners, Coving Lengths and cladding sheets. AM-Clad 2.5mm cladding sheets should only be installed after all of the Coving is in place.

Thermoformed Corners

AM-Clad Sheets should be thermoformed on-site to ensure a professional hygienic finish in conjunction with our Coving System joints. See the latest edition of the AM-Clad Installation Guide for our guide to thermoforming.

Temperature

AM-Clad Antibacterial Coving has a maximum working temperature of 60°C. It is NOT suitable for installing in kitchens, boiler rooms and manufacturing areas.

Colours

All Coving Trims are white PVC. You can see the full range of AM-Clad sheet colours in our current 6-page **Specifiers Guide** when you visit am-clad.com/systems.

Technical Data

AM-Clad Antibacterial PVC Coving System

Property	Test Method	Conditions	Units	Value
Density	D-792		g/cm ³	1.4
Heat deflection temperature (HDT)	D-648	Load: 1.82MPa	°C	65 - 68
Service temperature			°C	-10 to +50
Thermal conductivity	C-177		W/m K	0.15
Coefficient of linear thermal expansion	D-696		cm/cm °C	6.7 x 10 ⁻⁵
Rockwell hardness	D-785		R Scale	97R
Tensile strength at yield	D-638	10mm/min	MPa	50
Tensile strength at break	D-638	10mm/min	MPa	45
Elongation at yield	D-638	10mm/min	%	3
Elongation at break	D-638	10mm/min	%	>80
Tensile modulus of elasticity	D-638	1mm/min	MPa	2,900
Flexural strength	D-790	1.3mm/min	MPa	80
Flexural modulus	D-790	1.3mm/min	MPa	2,700
Impact falling weight	ISO 6603/1 E50	3mm sheet	J	95



Contact the AM-Clad team for a quote today
Call 01274 020 331 or email: info@am-clad.com
AM-Clad.com