



SYSTEM DATA SHEET



CLEANROOM

HYGIENIC CLADDING SYSTEM

COMPLETE HYGIENIC CLADDING SYSTEM FOR
CLEANROOMS, INCLUDING WALLS, CEILINGS & COVING



CLEANROOM

HYGIENIC CLADDING SYSTEM



AM-CLAD HYGIENIC WALL CLADDING IS COMPLIANT WITH AND CONFORMS TO ALL MAJOR QUALITY STANDARDS IN THE USA, UK AND EU



CONFORMS TO THE
HYGIENIC STANDARDS
OF USP 797

COMPLIES TO cGMP, GLP & EU GMP STANDARDS
SUITABLE AND FULLY INSTALLED INTO ISO
CLEANROOMS (LEVELS 2-9) AND LABORATORIES

AM-CLAD CLEANROOM



FDA COMPLIANT HYGIENIC WALL CLADDING SYSTEMS FOR PHARMACEUTICAL-GRADE CLEANROOMS

HYGIENIC CLEANROOMS are bio-secure environments and are designed for pharmaceutical research and manufacturing, medical device and hospital environments. AM-Clad supplies premium hygienic wall cladding to meet the stringiest requirements.

The premium-grade PVCu surfaces are impact resistance, easy to sterilize and offers a cost effective wall cladding solution. Our hygienic cleanroom wall system is FDA compliant, USDA compliant and conforms to the hygienic standards of USP 797. It also complies to cGMP, GLP & EU GMP standards, and is suitable to install into ISO cleanrooms (levels 2-9).

Our hygienic cleanroom wall cladding system comes with a 20-year guarantee, ensuring performance throughout the lifespan of the products.



THE AM-CLAD HYGIENIC 2.5MM PVC CLADDING SYSTEM

AM-Clad Hygienic 2.5mm White PVCu is a best-selling hygienic cladding sheet with proven performance across several market sectors including pharmaceuticals, biotech, medical facilities and food processing environments.

AM-Clad Hygienic PVC is trusted worldwide by leading building contractors, architects, specifiers and surveyors and we are experts in cladding solutions and all aspects of safety and hygiene performance.

It is made from premium grade solid PVCu and is cost-effective and versatile. AM-Clad Hygienic is suitable for most cladding jobs in hygienic and foodsafe areas. It is non-toxic and has a proven track record in environments where strict hygiene standards must be maintained.

AM-Clad Hygienic panels are premium-grade and tested for durability and are impact and scratch resistant. Panels are UV-stabilized to avoid fading and offer high levels of electrical and thermal insulation.

AM-Clad Hygienic meets Class A designation in the USA. In the UK and EU, it is Class 1 fire-rated, achieving a Class 0 rating when fixed to a non-combustible surface.

AM-Clad Hygienic panels are resistant to a range of cleaning chemicals (such as Spor-Klenz) used within typical pharmaceutical and cleanroom environments.

Extruded rigid PVCu sheet

Performance: Foodsafe and UV stabilized
Colors: White
Surface finish: Smooth satin

Measurements

2.5mm AM-Clad Hygienic PVCu sheets are available in three sizes:

4ft x 8ft x 2.5mm, 22lbs/panel

4ft x 9ft x 2.5mm, 24.75lbs/panel

4ft x 10ft x 2.5mm, 27.5lbs/panel

Flammability

AM-Clad Hygienic is self-extinguishing and complies with the most demanding international fire resistance standards defined for plastics, as shown below.

Standard:	Classification:
EN 13501	B, s3, d0
DIN 4102	B-1
BS 476/7	Class 0
NSP 92501,5	M-1
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.

Surface Preparation

Sheets should be fitted to a plumb surface and can be fitted over existing tiles, brickwork, blockwork, plaster walls and boarded-out stud partitions. The sheets fix directly to the dry substrate using professional adhesives.

Cutting and Drilling

Sheets can be cut to size using band, circular or jig saws. The protective film on every sheet should be left in place until installation begins. Use slow machine/drill speeds to prevent overheating.

Joints

Sheets are fixed using hot welded joints. This involves leaving an even 3mm gap between the vertical edges of the sheets when bonding them to the wall. The gap is then filled and hygienically sealed with hot weldrod. Enquire for further details.

Corners

Sheets can be expertly thermoformed on-site ensuring a professional finish and minimized edge joints around corners, windows and doors. External corners in high traffic areas can also be over-clad with robust corner protectors.

Cleaning

AM-Clad Hygienic is resistant to a range of cleaning chemicals used within typical pharmaceutical and cleanroom environments. A full chemical resistance data sheet is available on request. For regular cleaning use a soft cloth and suitable detergent. Do not use abrasive pads or wire wool. Do not clean above 140°F.

Temperature

AM-Clad Hygienic sheet has an operating temperature range of 4°F to 140°F. For higher temperatures (e.g. open flame and oven areas in kitchens) we recommend stainless steel panels.

**AM-CLAD COMES WITH A
20 YEAR GUARANTEE**

TECHNICAL DATA

AM-CLAD 2.5MM ANTIMICROBIAL CLADDING SYSTEM

Property	Method	Conditions	Units	Value
Density	D-792		g/cm ³	1.4
Heat deflection temperature (HDT)	D-648	Load: 1.82MPa	°F	149 to 155
Service temperature			°F	4 to 140
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



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Get in touch for more information:
spscleantech.com / Phone 800.345.FLOW
E-mail: info@spscleantech.com

SPS CLEANTECH 3265 SUNSET LANE, HATBORO, PA 19040

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