



**Protect the patients, and defend your staff...
Jemiclad are proud to introduce Protect and Defend the
antimicrobial panel with silver iron technology killing 99.9%
most superbugs known to man!**

The silver iron technology can be traced throughout the panel for its entire lifetime, giving you peace of mind that you have specified the safest wall finish on the planet.

Jemiclad

**Protect and Defend Silver Ion Antibacterial Technology
ceiling and wall cladding**

■ Properties

- Resistance to a great many chemicals
- Active Silver Ion antibacterial protection
- Elimination of microbes
- Longlife Silver Ion antimicrobial protection
- Silver Ion Antibacterial properties unaffected by processing
- DIN 22196:2011
- Food grade
- Easy care
- Resistance unaffected by frequent cleaning
- Impermeable, air and watertight system
- Low maintenance
- Shock resistant
- Joints can be welded superbly
- Elite certified installers globally
- Internal and external angles can be heatformed to increase protection
- Chemical resistant

■ Environmental protection of tested reliability

Correct storage

Always store Jemiclad sheets on a level surface in a dry, air conditioned environment at about 15–20 °C. The packaged sheets may not be exposed to weathering effects and direct sunlight.

Ecological manufacture

In line with our environmental guidelines, Jemiclad PVC-U sheets are safe for humans and the environment during their manufacture, use, and disposal. They are free of formaldehyde, asbestos, lindane, PCB, PCP, CFCs, cadmium, and lead and do not contain any monomers, biocides, or plasticisers. At the end of their service lives, the sheets or sheet residue can be recycled. They are processed in shredders or grinders and then introduced to the manufacturing process for new sheets.

Certified quality

True to our "Ever better principle", the acclaimed high quality of our products bear the hallmarks of our research and development work as well as decades of experience with synthetic materials. Tests are conducted over all stages from the incoming raw materials to the final inspection of the finished products. Regular examinations by independent testing institutes confirm this high level of care. Logically, our quality assurance system has been DIN ISO 9001 certified.



Protect the patients, and defend your staff...

Jemiclad Protect and Defend sheets offer active silver ion antibacterial protection and are designed for cladding the walls and ceilings of areas that must fulfil stringent hygiene requirements. The sheets are resistant to flames and many chemicals. Jemiclad sheets satisfy the standards demanded by the health authorities for food plant, medical facilities, catering firms, and

many other areas (DIN 22196:2011). The sheets' antibacterial properties offer protection against mould, bacteria, and pathogens. Our sheets use silver ions.

These are a known biocide with natural antimicrobial and antiseptic properties that suppress microbial reproduction.

Overview of applications

Public areas

Household kitchens

Professional kitchens

Catering

Canteens

Sportschool pools

Showers

Laundries

Medical areas

Healthcare pools Laboratories

Pharmaceutical areas

Retirement and nursing homes

Hospitals

Mortuaries

Food areas

Food production

Cold stores Clean

rooms

Delivery programme and colours

Dimensions and thicknesses (mm)

2500 x 1220 x 2,5

3000 x 1220 x 2,5

Protect & Defend

White
similar
RAL 9003

x

x



Technical Data

Mechanical properties	Standard	Unit	WA
Apparent density*	DIN EN ISO 1183	g/cm ³	~ 1,43
Yield stress (tensile strength)	DIN EN ISO 527	MPa	∅ 55
Elongation at tear	DIN EN ISO 527	%	∅ 15
Flexural strength	DIN EN ISO 178	MPa	∅ 80
Compressive strength	Based on DIN EN ISO 844	MPa	∅ 70
Modulus of elasticity	DIN EN ISO 527-2/1A/50	MPa	∅ 3000
Notched impact strength	DIN EN ISO 179-1ePA	KJ/ m ²	∅ 4
Impact strength	DIN EN ISO 179	KJ/ m ²	
	0 °C		no failure
	-20 °C		-
	-30 °C		-
	-40 °C		-
Ball indentation hardness (358 N/30 s)	DIN EN ISO 2039	MPa	~ 100

Thermal properties	Standard	Unit	WA
Vicat softening temperature	DIN EN ISO 306 (Process B50)	°C	∅ 75
Deflection temperature	DIN EN ISO 75	°C	~ 68
Coefficient of linear thermal expansion from – 30 °C to + 50 °C	DIN EN ISO 11359-2 (Process Ae)	mm/mK	0,08
Thermal conductivity from 0 °C to + 60 °C	DIN EN ISO 22007	W/mK	0,16

Antimicrobial properties

Designation	Norm	Unit	Value
Staphylococcus Aureus	DIN ISO 22196:2011	%	99,76
Escherichia Coli	DIN ISO 22196:2011	%	99,82





Jemiclad

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Visit us on the internet

Further details on the extensive products offered by Jemiclad can be found here:

www.Jemiclad.co.uk www.jemicladusa.com



With best regards: