

HYGICLAD®

Cost Effective Hygienic **Wall Cladding**
Technical Guide



Simple Cost Effective Wall Cladding Solution

Proven for its high quality, **HYGICLAD® hygienic wall cladding system** provides an ideal solution where a simple white wipe-clean surface is required for practical or health and safety reasons.

HYGICLAD® achieves an excellent fire rating of BS476-PT7 which enables the system to be specified in accordance with building regulations, whilst its high impact strength ensures a quality, long-life finish. HYGICLAD® sheet offers the most cost effective option, without sacrificing quality.



Common uses:

- ✓ Washrooms
- ✓ Private Healthcare
- ✓ Nursing Homes
- ✓ Mental Health Institutions
- ✓ Food Preparation Areas and Bakeries
- ✓ Butchers and Cold Storage Areas
- ✓ Milking Parlours
- ✓ Cloakroom and WC Areas
- ✓ Equestrian Centres
- ✓ Shower and Changing Areas
- ✓ Hospitals
- ✓ Laboratories

Qualities:

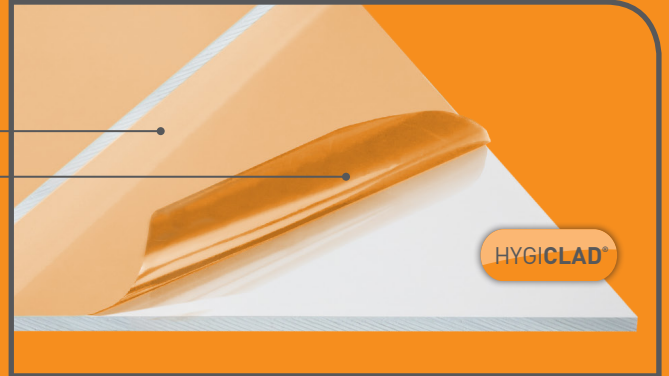
- ✓ High Impact Strength
- ✓ Easy to Cut Onsite
- ✓ Excellent Wipe Clean Surface
- ✓ UV Stabilised
- ✓ Durable
- ✓ Class 1 Fire Rating
- ✓ Can be Fixed Entirely with Specialised Adhesive
- ✓ Excellent Seal with Silicones



HYGICLAD® : Hygienic Sheet

HYGICLAD®: Sheet

Size	Description	Code
1220 x 2440mm	White	AH21
1220 x 3050mm	White	AH22



HYGICLAD®: Joint

Size	Description	Code
3050mm	Inline Joint - White	AH31



HYGICLAD®: J End Trim

Size	Description	Code
3050mm	White	AH36



HYGICLAD®: Corner

Size	Description	Code
3050mm	External - White	AH32
3050mm	Internal - White	AH33



HYGICLAD®: Coving

Size	Description	Code
3050mm	75mm Coving Trim	AH37



HYGICLAD® : Technical Data

HYGICLAD® has a diverse range of practical applications in healthcare, cleanrooms, laboratories and food preparation areas, and it's success speaks for itself, however, many complex specifications require further technical detail including physical, thermal, mechanical, electrical and re-resistance properties which are set out as guidelines below:

HYGICLAD®: Typical Properties					
	Property	Method	Conditions	Units	HYGICLAD® Sheet
Physical	Water absorption	-	24hrs at 23°	-	-
	Density	(D-1505)	-	g/cm ³	1.4
Thermal	Heat deflection temperature	(D-648)	Load: 1.82 MP	°C	65 - 68
	Service temperature range	-	-	°C	-20 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
Mechanical	Impact falling weight	(ISO 6603/1)	-	J	95
	Impact strength	Notch Charpy	-	-	-
	Rockwell hardness	(D-785)	-	R scale	97R
	Tensile strength at yield	(D-638)	10mm/min	MPa	52
	Tensile strength at break	(D-638)	10mm/min	MPa	40
	Elongation at yield	(D-638)	10mm/min	%	3
	Elongation at break	(D-638)	10mm/min	%	75
	Tensile modulus elasticity	(D-638)	1mm/min	MPa	2,900
	Flexural strength	(D-790)	1mm/min	MPa	80
	Flexural modulus	(D-790)	1mm/min	MPa	3,050
Electrical	Surface resistance	-	-	Ohm	-
	Volume resistance	-	-	Ohm/cm	-

*ASTM except where noted otherwise.

HYGICLAD®: Specialist Adhesives

HYGICLAD® specialist bonding adhesives are developed through advanced polymer technology and are recommended for use with the system. HYGICLAD® bonding adhesives offer greater adhesion strength and the long open-time of this product allows repositioning of the cladding sheet during fixing. For situations requiring a very high initial grab (e.g. ceiling cladding) the high-tack version of the adhesive is recommended.

HYGICLAD®: Flammability	
Fire Standard	HYGICLAD® Sheet
DIN 4102	B-1
BS 476 / 7	Class 1
NSP 92501,5	M-1
NSP 92501,5	M-2
CSE RF 3 / 77	Class 1
UL 94	V-0
ASTM D-635	SE

HYGICLAD®: Chemical Resistance	
Excellent	Mineral Acids, Alkalis, Plating Solutions, Paper Making Chemicals, Pickling Solutions, Other inorganic solutions and fumes thereof
Good	Alcohols, Aliphatic Hydrocarbons, Glycols, Amines, Phenols
Poor	Ketones, Aromatic Hydrocarbons, Chlorinated Solvents, Some Esters and Ethers

WARNING : REGISTERED DESIGNS & PATENTS

The IP of the designs in this brochure are protected by internationally registered design rights. Many products are also protected with active or pending Patents. Clear Amber will not hesitate to take appropriate legal action if its rights in this respect are infringed.

© Copyright – Clear Amber Group Ltd – April 2019. No part of this publication may be copied, reproduced, scanned, or stored in any electronic database, whether in whole or in part, in any form or by any means, without permission in writing from Clear Amber. Clear Amber will not hesitate to take appropriate legal action if its rights in this respect are infringed.

Inasmuch as Clear Amber have no control over the circumstances in which our material may be used, or site specific parameters, we cannot guarantee that any particular results will be achieved. Users should carry out their own tests to determine the suitability of the material for their application.