

HAWTHORN TIMBER

HYGIENIC DRYWALL LINING SYSTEM



www.hawthorntimber.co.uk



**Hawthorn
Timber**

Hygienic Linings to suit Controlled Environments

Hawthorn Timber use Hygienic PVC and Advantica®L, pre-bonded to a selection of substrates, providing cost effective, hygienic building board, lining solutions for a variety of situations.

Common Areas of Application

- Medical Environments
- High Traffic public Areas
- Changing Facilities
- Clean Rooms
- Food Processing
- Laboratories



Using advanced adhesive technology enables the use of multiple substrates, which can be tailored to each application:

- Various plasterboard substrates
- MDF and other wood based products
- Magnesium Oxysulfate boards
- Lightweight Insulation



System Variants

HYG PVC

Hawthorn Timber's Hygienic (HYG) PVC is easy to clean, lightweight, and resists the growth of micro-organisms.

Certified under EU Directive 97/48/EC, the PVC has approval for use in chemical and food processing areas.

A tough, scratch resistant surface, and fire resistant qualities, make HYG PVC a cost effective option for most applications requiring sterile environments.



Typical properties table

Physical characteristics	Test Standard	Hygienic PVC
Thickness [mm]		1-10
Density [g/cm ³]	DIN EN ISO 1183	1,14-1,46
E-modulus [MPa]	ISO 527 (50 mm/min)	3000
Impact strength (Charpy) [kJ/m ²]	ISO 179/1eU	without breaking
Notched impact strength (Charpy) [kJ/m ²]	ISO 179/1eA	9,0
Tensile strength [MPa]	ISO 527 (50 mm/min)	52
Flexural strength [MPa]] ISO 178 (2 mm/min)	77,8
Shore hardness D	ISO 868	81
Surface resistance ROE [Ω]	DIN IEC 60167	2,00E+14
Volume resistance RD [Ω]	DIN IEC 60093	1,74E+16
Dielectric strength E _d [kV/mm]	DIN IEC 60243	16,8
Dielectric constant ϵ_r	DIN 53483	3,0-3,6
Coefficient of expansion [mm/mK]	DIN 53752	0,07
Compressive strength [N/mm ²]	DIN 53421	70
Vicatsoftening point [°C]	ISO 306 (B50)	72
Heat distortion temperature [°C]	ISO 75-2 (1,8 MPa)	60
Water absorption [%]	ISO 62 (after 216 h)	0,1
Fire rating (un-bonded)	DIN EN 13501-1 NFP 92-512	C - s3 d1 M1 (1-2mm)

- Rigid PVC with increased impact strength

- Resistant to environmental influences and sterilising agents

For more
information:

TEL: 01482 228159

EMAIL: enquiries@hawthorntimber.co.uk

Advantica® L

Advantica® L

Advantica® L Control is a proven and highly durable pre-finished steel for use in demanding controlled environments.

Benefits of Advantica® L Control:

- **Food safe** – meeting stringent requirements for continuous food contact
- **Highly resistant to staining**
- **Excellent corrosion resistance**
- **Anti-static** – reducing the attraction of dust and dirt
- **Robust** – for lasting performance in high traffic areas



Typical properties table

Physical characteristics	Test Standard	Advantica® L Control
Nominal thickness (µm)	EN 13523-1	120 (150 on request)
Gloss(%)	EN 13523-2	8-15
Flexibility (minimum bend radius)	EN 13523-7	0T
Pencil hardness	EN 13523-4	>4H
Scratch resistance (g)	EN 13523-12	4000
Salt spray resistance (hrs)	EN 13523-8	500
Humidity (hrs)	EN 13523-26	1500
Minimum continuous temperature (°C)		-40
Maximum continuous temperature (°C)		60
CPI Category	EN 10169	CPI5
Complies with EU legislation for food safety and contact with food products		YES
Reaction to fire	EN 13501-1	B-s1,d0*

*Advantica® L Control fire testing is based on nominal thickness of the steel sheet 0.55mm, and a 120µ PVC film.

**For more
information:**

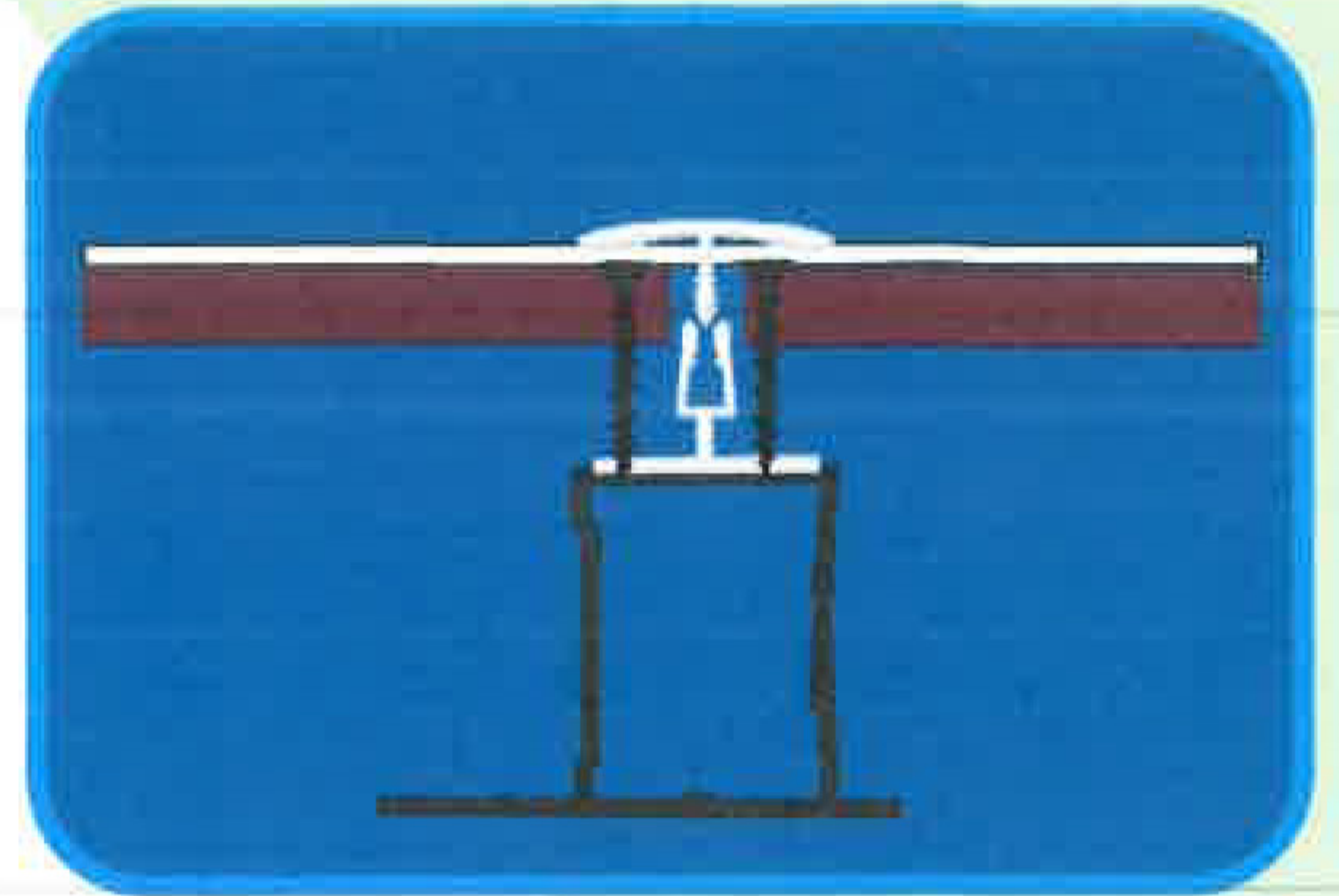
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Installation

Using a simple click-lock extrusion system, installation is quick and easy, requiring no specialist training, tools, fixtures or fittings.

- The female extrusion is fixed back to the metal or timber stud
- Panels are then fixed along perimeter edges, with 51mm drywall screws at 300mm centres
- The male extrusion is then locked in place on the joint to conceal the screw fixings and joining line, creating an aesthetically pleasing finish in either a PVC or Advantica®L finish to suit the face.



Finish the system...

To complete installation, we also supply internal and external corners, to suit the face coverings.

2 Part H Section
Joining Trim



50 x 50mm
External Angle



50 x 50mm
Internal Angle