

Gyproc ThermaLine BASIC and Thermaline BASIC vc

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INTRODUCTION

Gyproc ThermaLine BASIC consists of 9.5mm Gyproc WallBoard bonded to a backing of low density expanded polystyrene that is both CFC and HCFC free - meaning zero ODP (Ozone Depletion Potential). Gyproc ThermaLine BASIC vc has a water vapour resistant membrane incorporated at the interface between the Gyproc WallBoard and expanded polystyrene.

Gyproc ThermaLine BASIC and ThermaLine BASIC vc can be used as an insulating lining material for new walls and roofs, or for upgrading the insulation of existing structures to satisfy the requirements of the national Building Regulations. The laminate provides a dry lining of low thermal capacity which responds more quickly to heat input than plasterboard and helps reduce the risk of surface condensation in buildings with intermittent heating. In addition, it reduces the problems associated with cold bridges. Gyproc ThermaLine BASIC vc helps to reduce interstitial condensation.

Standards

The components of Gyproc ThermaLine BASIC and Gyproc ThermaLine BASIC vc conform to:

BS 1230: Part 1: 1985 Specification for plasterboard excluding materials submitted to secondary operation.

EN13163 : 2001 Thermal insulation products for buildings - factory made products of expanded polystyrene (eps).

All British Gypsum boards and plasters are manufactured under *BS EN ISO 9002*, a quality assurance system approved by the BSI.

ENVIRONMENTAL

Water vapour resistance and condensation

Gyproc ThermaLine BASIC vc incorporates a membrane with water vapour resistance of 20MNs/g. When tested in accordance with *BS 3177: 1959*, it offered a significant resistance to water vapour transmission.

The application of two coats of Gyproc Drywall Sealer after installation and jointing provides additional water vapour resistance should this be necessary for particular structures. Please refer to **White Book** and **SiteBook Section n15** - **Jointing**, for further details.

Condensation

The use of Gyproc ThermaLine BASIC considerably reduces the risk of surface condensation in intermittently heated rooms. The use of Gyproc ThermaLine BASIC vc also helps to reduce interstitial condensation. Please refer to **White Book Section x40** - **Condensation** for guidance.

Table 1 - Condensation risk assessment table

	Water vapour resistivity MNs/gm	Water vapour resistance MNs/g
9.5mm Gyproc WallBoard	60	0.57
Expanded polystyrene	130	

Calculations using the method for assessing risk of interstitial condensation as described in *BS 5250: 2002 (Code of Practice for control of condensation in buildings)* should be carried out for particular structures.

It is feasible to design dry lined walls which will not suffer from condensation within the structure. However, when using insulated dry linings, due consideration must be taken of the overall installation to minimise perforations by services, e.g. light switches and power outlets. In addition the joints at wall / ceiling and wall / floor level must be well sealed.

Surface condensation can occur at cold bridges such as around window and door openings. When an internal insulation method is used ensure that sufficient insulation is provided at these positions. Where the insulated dry lining returns around soffits and into reveals, Gyproc ThermaLine REVEAL is recommended, subject to the thickness of window or door frame and the resultant margin.

HEALTH AND SAFETY

Please refer to White Book Section 14 - Health and Safety before specifying, handling or installing any British Gypsum products and systems covered in this publication.

British Gypsum fully accepts its responsibilities as a supplier of building materials and systems as required by Section 6 of the Health and Safety Work Act: 1974. The designer should take full account of relevant regulations and guidance. Please refer to **Section 14** - **Health and Safety**, for further details.

Safety Data Sheets for all British Gypsum products, and additional copies of **Section 14 - Health and Safety** are available to download from our website: www.british-gypsum.com, or via the British Gypsum Drywall Academy Advice Centre.

When cutting boards, power and hand tools should be used with care and in accordance with manufacturers' recommendations. Appropriate personal protective equipment should be used.

Gyproc ThermaLine SUPER

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INTRODUCTION

Gyproc ThermaLine SUPER consists of 9.5mm Gyproc WallBoard bonded to a backing of CFC free phenolic foam.

Gyproc ThermaLine SUPER can be used as an insulating lining material for new walls and roofs, or for upgrading the insulation of existing structures to satisfy the requirements of the national Building Regulations. The laminate provides a dry lining which responds more quickly to heat input than plasterboard and helps reduce the risk of surface condensation in buildings with intermittent heating. In addition, it reduces the problems associated with cold bridges and also helps to reduce interstitial condensation.

Standards

The components of Gyproc ThermaLine SUPER conform to:

BS 1230: Part 1: 1985 Specification for plasterboard excluding materials submitted to secondary operation.

EN13166 : 2001 Specification for thermal insulation products for buildings - factory made products of phenolic foam (pf).

All British Gypsum boards and plasters are manufactured under *BS EN ISO 9002*, a quality assurance system approved by the BSI.

ENVIRONMENTAL

Water vapour resistance

Gyproc ThermaLine SUPER incorporates a vapour control membrane providing an overall water vapour resistance of 200MNs/g. When tested in accordance with *BS 3177: 1959*, it offered a significant resistance to water vapour transmission.

The application of two coats of Gyproc Drywall Sealer after installation and jointing provides additional water vapour resistance should this be necessary for particular structures. Please refer to **White Book** and **SiteBook Section n15 - Jointing**, for further details.

Condensation

The use of Gyproc ThermaLine SUPER considerably reduces the risk of surface condensation in intermittently heated rooms. Please refer to **White Book Section x40 - Condensation**, for guidance.

Table 1 - Condensation risk assessment table

	Water vapour resistivity MNs/gm	Water vapour resistance MNs/g
9.5mm Gyproc WallBoard	60	0.57
Gyproc ThermaLine SUPER		200

Calculations using the method for assessing risk of interstitial condensation as described in *BS 5250: 2002 (Code of Practice for control of condensation in buildings)* should be carried out for particular structures.

It is feasible to design dry lined walls which will not suffer from condensation within the structure. However, when using insulated dry linings, due consideration must be taken of the overall installation to minimise perforations by services, e.g. light switches and power outlets. In addition the joints at wall / ceiling and wall / floor level must be well sealed.

Surface condensation can occur at cold bridges such as around window and door openings. When an internal insulation method is used ensure that sufficient insulation is provided at these positions. Where the insulated dry lining returns around soffits and into reveals, Gyproc ThermaLine REVEAL is recommended, subject to the thickness of window or door frame and the resultant margin.

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When cutting boards, power and hand tools should be used with care and in accordance with manufacturers' recommendations. Appropriate personal protective equipment should be used.

PERFORMANCE

Fire

The surfaces of both Gyproc WallBoard and the phenolic foam backing satisfy Class 0 surface requirements for the purposes of national Building Regulations. Please refer to **Table 2**.

For guidance, please refer to **White Book Section b01** - Introduction - Dry linings.

Table 2 - Reaction to fire test performance

Test	Performance
<i>BS 476: Part 6: 1989 Method of test for fire propagation for products.</i>	Index of performance (I) not exceeding 12 and a sub-index (i _s) not exceeding 6
<i>BS 476: Part 7: 1997 Surface spread of flame tests for materials.</i>	Class 1

EFFECT OF TEMPERATURE, THERMAL PROPERTIES AND PERFORMANCE

Effect of temperature

Gyproc ThermalLine SUPER is unsuitable for use in areas subject to continuously damp or humid conditions and must not be used to isolate dampness. Plasterboards are not suitable for use in temperatures above 49°C, but can be subjected to freezing conditions without risk of damage.

Thermal conductivity / resistance

Conductivity (λ)

Gyproc WallBoard	= 0.19 W/mK
Phenolic foam	= 0.024 W/mK (10-24mm thickness)
	= 0.023 W/mK (25-44mm thickness)
	= 0.022 W/mK (45-120mm thickness)

Thermal performance

Uncontrolled air movement through the cavity can result in excessive heat loss from the building. The quoted values in **Table 3** are based on a closed cavity between the lining and the background. This is achieved in practice if the abutting elements and background are well fitted and junctions are sealed.

Table 3 - Cavity performance

Fixing/system	R value m ² K/W
DriLyner RF system	0.03
DriLyner BASIC and DriLyner TL system (with 10mm stand off)	0.11
DriLyner MF system (with 20mm stand off)	0.17
GypLyner wall lining system or Timber battens (with 25mm battens)	0.18

DESIGN

Gyproc ThermalLine SUPER boards are available with a decorative face and tapered edges for direct decoration or application of a skim coat of Thistle Multi-Finish or Thistle Board Finish plaster. Please refer to **Table 4**.

Table 4 - Thicknesses available, weight and thermal resistances for Gyproc ThermalLine SUPER

Width mm	Thickness mm	R value m ² K/W	Weight kg/m ²	Length mm
1200	50	1.79	7.0	2400
	60	2.32	to	or
	65	2.55	8.5	2700

INSTALLATION

General

It is important to observe appropriate Health and Safety legislation when working on site, i.e. protective clothing and equipment, etc. The following notes are intended as general guidance only, describing the basic sequence of installation. In practice, consideration must be given to design criteria requiring specific project solutions.

Please contact the British Gypsum Drywall Academy Advice Centre for guidance.

Health and Safety

For correct Health and Safety methods, please refer to **White Book Section 14** - Health and Safety.

Cutting

Gyproc ThermalLine SUPER may be cut wallboard surface uppermost using a wallboard saw. Holes for switch or socket boxes should be cut out before the boards are fixed using a utility saw or sharp knife.

Installation

Tapered edge Gyproc ThermalLine SUPER can be installed in the DriLyner BASIC, DriLyner TL and GypLyner wall lining systems. Alternatively, using DriLyner RF facilitates the fixing of boards directly to plastered masonry walls in refurbishment situations using blobs of Gyproc Sealant. As another alternative, boards can be fixed to timber battens or joists using Gyproc Drywall Timber Screws or Gyproc Nails. For details, please refer to **White Book Section r20** - Board accessories for guidance.

FINISHING

Jointing

For joint treatment of tapered edge Gyproc ThermaLine SUPER, please refer to **White Book** and **SiteBook Section n15** - Jointing.

Decoration

After the joint treatment has dried, decoration including any decorator's preparatory work, should follow with the minimum of delay. Please refer to **White Book** and **SiteBook Section n30** - Decorative effects for guidance.

Plastering

Gyproc ThermaLine SUPER can be plastered with Thistle Multi-Finish or Thistle Board Finish. There should be the minimum of delay between completion of the lining and the commencement of the plastering. Please refer to **White Book** and **SiteBook Section b05** - Plaster systems.

Finishing

The installation and finishing should be carried out in accordance with the recommendations of British Gypsum, as described in current literature and with the products supplied.

OPERATION AND MAINTENANCE

If a board is damaged, it should be repaired or replaced as described in **White Book Section 9** and **SiteBook Section 10** - Board finishing.

ACCESSORIES

For products recommended in this section, please refer to **White Book Section b10** - DriLyner and **b22** - GyLyner. For metal and other components, please refer to **White Book Sections r20** - Board accessories and **r30** - Metal components for further details.

Gyproc, Thistle, Gypframe, Glasroc, Artec and Rawl are all registered trade names of BPB United Kingdom Limited. Isowool is a registered trade name of British Gypsum-Isover Ltd, a joint venture between the insulation division of British Gypsum and Isover Saint-Gobain.

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Gyproc ThermaLine PLUS

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INTRODUCTION

Gyproc ThermaLine PLUS is a plasterboard thermal laminate, specifically developed as an internal dry lining to meet the exacting standards of thermal insulation to masonry walls demanded in today's buildings.

Gyproc ThermaLine PLUS comprises 9.5mm Gyproc WallBoard factory bonded to CFC and HCFC free extruded polystyrene – meaning zero ODP (Ozone Depletion Potential). The polystyrene backing is a closed cell low thermal conductivity grade providing integral vapour control.

Gyproc ThermaLine PLUS is installed using proven dry lining methods to provide an internal lining and room located insulation in one fixing operation with all the usual benefits of dry construction. Gyproc ThermaLine PLUS not only provides a cost effective solution for insulating external walls in new buildings but it is also ideally suited to upgrading the thermal performance of walls and ceilings in existing buildings. For the latter, it is particularly suitable where access or space above the ceiling is limited, and is used by over-boarding or direct replacement.

Standards

The components of Gyproc ThermaLine PLUS comply with: *BS 1230: Part 1: 1985 Specification for plasterboard excluding materials submitted for secondary operations*, and *EN13164 : 2001 Specification for thermal insulation products for buildings - factory made products of extruded polystyrene foam (xps)*.

All British Gypsum boards and plasters are manufactured under *BS EN ISO 9002*, a quality assurance system approved by the BSI.

ENVIRONMENTAL

Water vapour resistance and condensation

Gyproc ThermaLine PLUS can offer significant resistance to water vapour transmission provided all board joints are taped and filled. For jointing recommendations, please refer to **White Book** and **SiteBook Section n15 - Jointing**.

The application of two coats of Gyproc Drywall Sealer after installation and jointing provides additional water vapour resistance should this be necessary for particular structures. Please refer to **White Book** and **SiteBook Section n15 - Jointing**, for further details.

Gyproc ThermaLine PLUS has been tested for water vapour permeability to *BS 4370: Part 2: 1973*. Where the system requires a vapour check, this should be incorporated as an integral part of the lining using Gyproc thermal laminates.

Table 1 - Condensation risk assessment table

	Water vapour resistivity MNs/gm	Water vapour resistance MNs/g
9.5mm Gyproc WallBoard	60	0.57
Extruded polystyrene	550	

Calculations using the method for assessing risk of interstitial condensation as described in *BS 5250: 2002 (Code of Practice for control of condensation in buildings)* should be carried out for particular structures.

It is feasible to design dry lined walls which will not suffer from condensation within the structure. However, when using insulated dry linings, due consideration must be taken of the overall installation to minimise perforations by services, e.g. light switches and power outlets. In addition the joints at wall / ceiling and wall / floor level must be well sealed.

Surface condensation can occur at cold bridges such as around window and door openings. When an internal insulation method is used ensure that sufficient insulation is provided at these positions. Where the insulated dry lining returns around soffits and into reveals, Gyproc ThermaLine REVEAL is recommended, subject to the thickness of window or door frame and the resultant margin.

HEALTH AND SAFETY

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When cutting boards, power and hand tools should be used with care and in accordance with manufacturers' recommendations. Appropriate personal protective equipment should be used.

PERFORMANCE

Fire

The surfaces of Gyproc WallBoard satisfies Class 0 surface requirements for the purposes of national Building Regulations. Please refer to **Table 2**.

The extruded polystyrene of Gyproc ThermoLine PLUS incorporates a flame retardant additive, but is not classified for surface spread of flame.

For guidance, please refer to **White Book Section b01** - Introduction - Dry linings.

Table 2 - Reaction to fire test performance

Test	Performance
BS 476: Part 6: 1989 Method of test for fire propagation for products.	Index of performance (I) not exceeding 12 and a sub-index (I _s) not exceeding 6
BS 476: Part 7: 1997 Surface spread of flame tests for materials.	Class 1

EFFECT OF TEMPERATURE, THERMAL PROPERTIES AND PERFORMANCE

Effect of temperature

Gyproc ThermoLine PLUS is unsuitable for use in areas subject to continuously damp or humid conditions and must not be used to isolate dampness. Plasterboards are not suitable for use in temperatures above 49°C, but can be subjected to freezing conditions without risk of damage.

Thermal conductivity

Conductivity (λ)

Gyproc WallBoard = 0.19 W/mK

Extruded polystyrene = 0.030 W/mK

Thermal performance

Uncontrolled air movement through the cavity can result in excessive heat loss from the building. The quoted values in **Table 3** are based on a closed cavity between the lining and the background. This is achieved in practice if the abutting elements and background are well fitted and junctions are sealed.

Table 3 - Cavity performance

Fixing/system	R value m ² K/W
DriLyner RF system	0.03
DriLyner BASIC and DriLyner TL system (with 10mm stand off)	0.11
DriLyner MF system (with 20mm stand off)	0.17
GyPLYner wall lining system or Timber battens (with 25mm battens)	0.18

DESIGN

Gyproc ThermoLine PLUS boards are available with a decorative face and tapered edges for direct decoration or application of Thistle Board Finish or Thistle Multi-Finish. The laminate is also available in a range of thicknesses (please refer to **Table 4**).

Table 4 - Thicknesses available, weight and thermal resistances for Gyproc ThermoLine PLUS

Width mm	Thickness mm	R value m ² K/W	Weight kg/m ²	Length mm
1200	27	0.63	6.5	2400
	35	0.88	to	or
	40	1.07	9.0	2700
	45	1.25		
	55	1.57		

INSTALLATION

General

It is important to observe appropriate Health and Safety legislation when working on site, i.e. protective clothing and equipment, etc. The following notes are intended as general guidance only, describing the basic sequence of installation. In practice, consideration must be given to design criteria requiring specific project solutions.

Please contact the British Gypsum Drywall Academy Advice Centre for guidance.

Health and Safety

For correct Health and Safety methods, please refer to **White Book Section 14** - Health and Safety.

Cutting

Gyproc ThermoLine PLUS may be cut wallboard surface uppermost using a wallboard saw. Holes for switch or socket boxes should be cut out before the boards are fixed using a utility saw or sharp knife.

Installation

Tapered edge Gyproc ThermoLine PLUS can be installed in the **DriLyner BASIC**, **DriLyner TL**, **DriLyner** and **GyPLYner** wall lining systems. Alternatively, using **DriLyner RF** facilitates the fixing of boards directly to plastered masonry walls in refurbishment situations using blobs of Gyproc Sealant. As another alternative, boards can be fixed to timber battens or joists using Gyproc Drywall Timber Screws or Gyproc Nails. For details, please refer to **White Book Section r20** - Board accessories for guidance.

FINISHING

Jointing

For joint treatment of tapered edge Gyproc ThermaLine PLUS, please refer to **White Book** and **SiteBook Section n15** - Jointing.

Decorating

After the joint treatment has dried, decoration including any decorator's preparatory work, should follow with the minimum of delay. Please refer to **White Book** and **SiteBook Section n30** - **Decorative effects**, for further details.

Plastering

Thistle Board Finish or Thistle Multi-Finish can be applied to the decorative face of the boards to give a thin coat gypsum finish. Please refer to **White Book** and **SiteBook Section n10** - **Plaster skimming** for further details.

Finishing

The installation and finishing should be carried out in accordance with the recommendations of British Gypsum, as described in current literature and with the products supplied.

OPERATION AND MAINTENANCE

If a board is damaged, it should be repaired or replaced as described in **White Book Section 9** and **SiteBook Section 10** - **Board finishing**.

ACCESSORIES

For products recommended in this section, please refer to **White Book Section b10** - **DriLyner** and **b22** - **GypLyner**. For metal and other components, please refer to **White Book Sections r20** - **Board accessories** and **r30** - **Metal components** for further details.

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PERFORMANCE

Fire

The surfaces of Gyproc WallBoard satisfies Class 0 surface requirements for the purposes of national Building Regulations. Please refer to **Table 2**.

The expanded polystyrene of Gyproc ThermaLine PLUS incorporates a flame retardant additive, but is not classified for surface spread of flame.

For guidance, please refer to **White Book Section b01** - **Introduction - Dry linings**.

Table 2 - Reaction to fire test performance

Test	Performance
BS 476: Part 6: 1989 Method of test for fire propagation for products.	Index of performance (I) not exceeding 12 and a sub-index (i _s) not exceeding 6
BS 476: Part 7: 1997 Surface spread of flame tests for materials.	Class 1

EFFECT OF TEMPERATURE, THERMAL PROPERTIES AND PERFORMANCE

Effect of temperature

Gyproc ThermaLine BASIC and ThermaLine BASIC vc are unsuitable for use in areas subject to continuously damp or humid conditions and must not be used to isolate dampness. Plasterboards are not suitable for use in temperatures above 49°C, but can be subjected to freezing conditions without risk of damage.

Thermal conductivity / resistance

Conductivity (λ)

Gyproc WallBoard = 0.19 W/mK

Expanded polystyrene = 0.04 W/mK

Thermal performance

Uncontrolled air movement through the cavity can result in excessive heat loss from the building. The quoted values in **Table 3** are based on a closed cavity between the lining and the background. This is achieved in practice if the abutting elements and background are well fitted and junctions are sealed.

Table 3 - Cavity performance

Fixing/system	R value m ² K/W
DriLyner RF system	0.03
DriLyner BASIC and DriLyner TL system (with 10mm stand off)	0.11
DriLyner MF system (with 20mm stand off)	0.17
GypLyner wall lining system or Timber battens (with 25mm battens)	0.18

DESIGN

Gyproc ThermaLine BASIC boards are available with a decorative face and tapered edges for direct decoration or application of a skim coat of Thistle Multi-Finish or Thistle Board Finish plaster. Please refer to **Table 4**.

Table 4 - Gyproc ThermaLine BASIC range

Thickness mm	Width mm	Length mm	Weight kg/m ²	R value m ² K/W
22	1200	2400	6.5	0.35
30	1200	or	to	0.55
40	1200	2700	9.0	0.80
50 ¹	1200			1.05

¹ vc (vapour check) grade only.

INSTALLATION

General

It is important to observe appropriate Health and Safety legislation when working on site, i.e. protective clothing and equipment, etc. The following notes are intended as general guidance only, describing the basic sequence of installation. In practice, consideration must be given to design criteria requiring specific project solutions.

Please contact the British Gypsum Drywall Academy Advice Centre for guidance.

Health and Safety

For correct Health and Safety methods, please refer to **White Book Section 14 - Health and Safety**.

Cutting

Gyproc ThermaLine boards may be cut wallboard surface uppermost using a wallboard saw. Holes for switch or socket boxes should be cut out before the boards are fixed using a utility saw or sharp knife.

Installation

Gyproc ThermaLine BASIC can be installed in the DriLyner BASIC, DriLyner TL, and GypLyner wall lining systems. Please refer to **White Book** and **SiteBook** Sections **b10** - DriLyner and **b22** - GypLyner for further details.

Alternatively, use DriLyner RF that facilitates the fixing of boards directly to plastered or smooth faced walls in refurbishment situations using blobs of Gyproc Sealant. Laminates can also be screw or nail fixed to timber battens or joists. Please refer to **White Book Section r20 - Board accessories** for guidance.

Gyproc ThermaLine BASIC must be kept absolutely flat in general site storage and at the place of installation until fixed.

FINISHING

Jointing

For joint treatment of tapered edge Gyproc ThermaLine BASIC and Gyproc ThermaLine BASIC vc, please refer to **White Book** and **SiteBook Section - n15 Jointing**.

Decoration

After the joint treatment has dried, decoration including any decorator's preparatory work, should follow with the minimum of delay. Please refer to **White Book** and **SiteBook Section n30 - Decorative effects** for guidance.

Plastering

Gyproc ThermaLine SUPER can be plastered with Thistle Multi-Finish or Thistle Board Finish. There should be the minimum of delay between completion of the lining and the commencement of the plastering. Please refer to **White Book** and **SiteBook Section b05 - Plaster systems**.

The installation and finishing should be carried out in accordance with the recommendations of British Gypsum, as described in current literature and with the products supplied.

OPERATION AND MAINTENANCE

If a board is damaged, it should be repaired or replaced as described in **White Book Section 9** and **SiteBook Section 10 - Board finishing**. Please note that to maintain fire performance, the edges of the repair patch should be fixed in a manner equivalent to the original specification. Where this is impractical, it is strongly recommended that the board be replaced completely.

ACCESSORIES

For products recommended in this section, please refer to **White Book Section b10 - DriLyner** and **b22 - GypLyner**. For metal and other components, please refer to **White Book Sections r20 - Board accessories** and **r30 - Metal components** for further details.

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