

INTRODUCTION

KAY-CEL "Insulfloor" under floor heating panel is manufactured by Kay-Metzeler Ltd., one of the country's leading suppliers of Expanded Polystyrene Products, and is supplied in varying grades, types and sizes. The insulation board is manufactured from Expanded Polystyrene (EPS), and laminated to a highly resistant, fibre woven film. This film acts as the protection layer for the product.

The EPS is manufactured and tested in accordance with European Standards, contains no CFC's or HCFC's, and is totally recyclable. A 50mm Grid Pattern is printed onto the film, which assists the installer to lay the under floor heating pipes in the correct positions. The pipe is positioned in place, then fixed to the insulation using a "U" clip. The laminate film covering the EPS board, is specially designed to hold the "U" clip in place, and ensures the under floor heating pipe is held tightly in position. The film covering on the insulation overhangs the board by 50mm, enabling overlaps to be taped to form a continuous seamless surface.

KAY-CEL INSULFLOOR BOARD DIMENSIONS & GRADES

Standard board size is 2400mm x 1200mm x various thicknesses, to customer's requirements. Insulfloor can also be supplied in a folded board size 2400mm x 500mm x various thicknesses. Additional sizes available upon request – please enquire for additional costs and lead times. Insulfloor is available in the following grades of EPS

KAY-CEL EPS 70, EPS 100, EPS 150, EPS 200, and **KAY-CEL** Super Plus 70, Super Plus 100.

COMPATIBILITY

KAY-CEL InsulFloor boards are compatible with ALL types of screed, and readily accept all preparatory fixings ensuring that pipes remain in position until they are encased in the floor screed. Further information on InsulFloor is available from Kay-Metzeler (Technical Desk). Details also available on the Web Site...www.kay-metzeler.com

SITE HANDLING

KAY-CEL InsulFloor boards are delivered to site wrapped in polythene. The boards should be stored in the original wrapping, undercover, and protected from direct sunlight. Boards should be kept above ground level and out of contact with solvents and materials containing volatile organic compounds such as coal tar, pitch or timber recently treated with creosote or diesel fuel. Do not expose to naked flame or other ignition sources during storage or installation.

BESPOKE PRODUCTS

Kay-Metzeler have the technical capabilities to develop and produce under floor heating panels and products to customers exact requirements, including deflector panels, specialist laminates and many other specific products.

The information contained herein is provided for general reference purposes only. By providing the information herein Kay-Metzeler Limited make no guarantee or warranty and does not assume any liability with respect to the accuracy or completeness of such information or products results in specific instances and hereby expressly disclaims any implied warranties of merchant ability or fitness for a particular purpose.

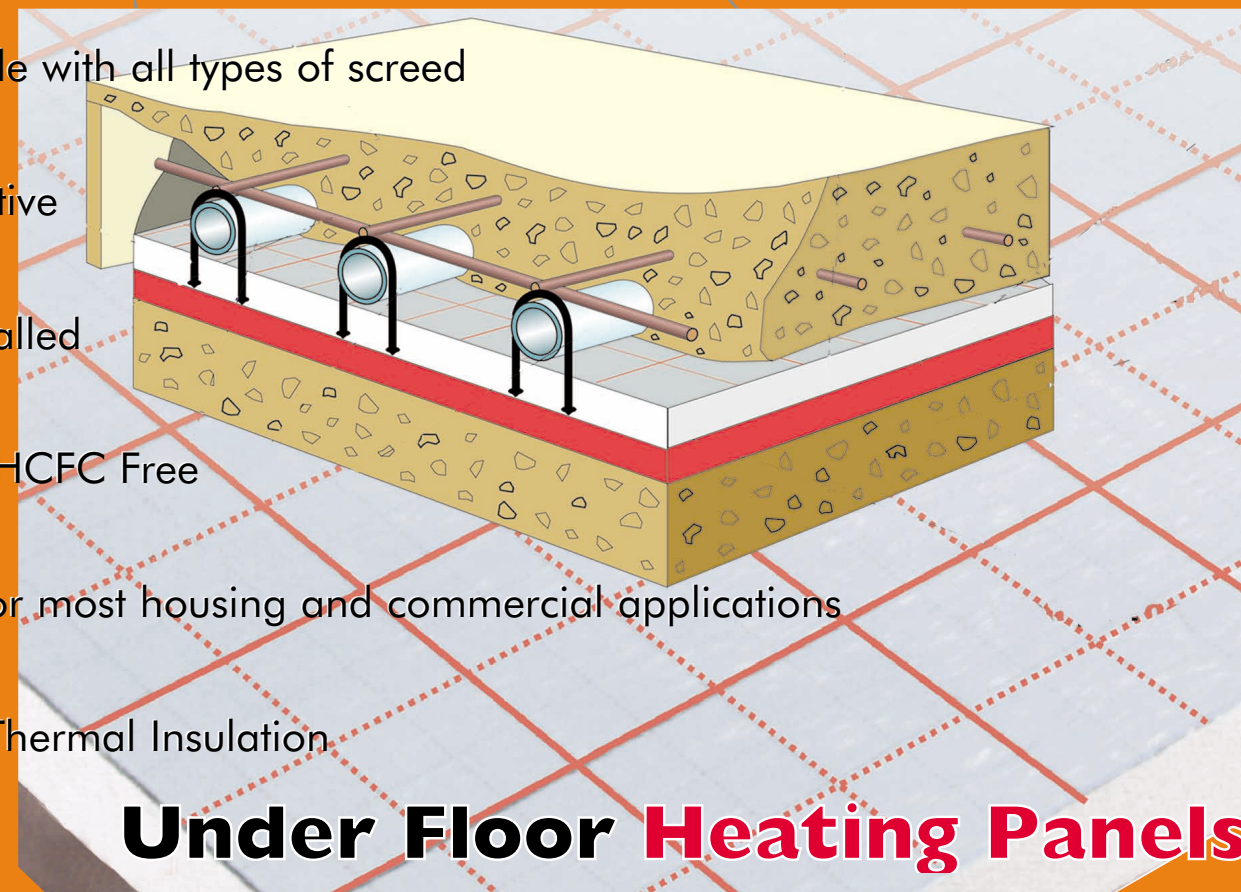
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KAY-METZELER

INSULFLOOR

- Compatible with all types of screed
- Cost effective
- Easily Installed
- CFC and HCFC Free
- Suitable for most housing and commercial applications
- Excellent Thermal Insulation



Under Floor Heating Panels

KAY-CEL INSULFLOOR Grooveboard

KAY-CEL Grooveboards are a contoured EPS board for the underfloor heating market.

Standard sizes for this panel are 2400mm x 1200mm and 1200mm x 1200mm and are available in various thicknesses.



The boards can be manufactured in the following grades... **KAY-CEL** EPS 100, EPS 150 and EPS 200

For customers requiring improved thermal performance, the boards can also be manufactured from **KAY-CEL** Super Plus with a thermal performance of 0.030

	KAY-CEL EPS 100	KAY-CEL EPS 150	KAY-CEL EPS 200	KAY-CEL Super Plus EPS 100
Thermal Conductivity	0.036W/mk	0.035W/mk	0.034W/mk	0.030W/mk
Compressive Strength @ 10% deformation	100kPa	150kPa	200kPa	100kPa
Board Size	1200mm x 1200mm and 2400mm x 1200mm			
Overall Board Thickness	30mm+(any thickness at 5mm increments)			
Reaction to Fire Classification	Euroclass B (when used in a concrete floor construction)			
Environmental Standards	ODP + GWP zero CFC + HCFC free EPS Boards are recyclable			
Quality Standards	BS EN ISO 9001:2000			



Certification

KAY-CEL Insulfloor is manufactured and certified to BS EN ISO 9001:2000. The EPS used in the manufacture of this product complies to BS EN 13163:2001



KAY-CEL INSULFLOOR Gridboard

KAY-CEL Gridboard is used from small to multi unit apartment and housing developments. Gridboard can be supplied in both conventional white KAY-CEL and where a higher thermal performance is needed KAY-CEL Super Plus. The top side of each board has a red grid-patterned layer which assists in the following...

1. It provides a visual guide when laying the hot water pipes. The grid system measures at 50mm intervals allowing a range of pipe centres to be chosen.
2. When the fixing clips are stapled into the board, the top layer prevents the clips from being pulled out.



	KAY-CEL EPS 70	KAY-CEL EPS 100	KAY-CEL EPS 150	KAY-CEL EPS 200	KAY-CEL Super Plus EPS 70	KAY-CEL Super Plus EPS 100
Thermal Conductivity	0.038W/mk	0.036W/mk	0.035W/mk	0.034W/mk	0.030W/mk	0.030W/mk
Compressive Strength @ 10% deformation	70kPa	100kPa	150kPa	200kPa	70kPa	100kPa
Board Size	2400mm x 1200mm Insulfloor can also be supplied in a folded board size 2400mm x 500mm in various thicknesses				2400mm x 1200mm Insulfloor can also be supplied in a folded board size 2400mm x 500mm in various thicknesses	
Overall Board Thickness	25mm+ (any thickness at 5mm increments)				25mm+ (any thickness at 5mm increments)	
Reaction to Fire Classification	Euroclass B (when used in a concrete floor construction)				Euroclass B (when used in a concrete floor construction)	
Environmental Standards	ODP + GWP zero CFC + HCFC free EPS Boards are recyclable				ODP + GWP zero CFC + HCFC free EPS Boards are recyclable	
Quality Standards	BS EN ISO 9001:2000				BS EN ISO 9001:2000	