

## DATA SHEET

### K-Panel 2mm and 2.5mm White PVC Cladding Sheet



**Hygienik K-Panel has been our best-selling cladding panel for more than 12 years. It is high quality, cost-effective and versatile. Suitable for most cladding jobs in hygienic and foodsafe areas. K-Panel is a proven cost-saving alternative to leading brands.**

*K-Panel* meets UK and EU's highest fire rating and is self-extinguishing. It is Class 1 fire-rated and achieves a Class 0 rating when fixed to a non-combustible surface.

*K-Panel* is non-toxic and has a proven track record in environments where strict hygiene standards must be maintained. We have carried out hundreds of successful *K-Panel* installations for the UK's leading manufacturers, supermarkets, restaurants, hotels, leisure centres, hospitals and schools.

Panels are UV-stabilised to avoid fading and offer high levels of electrical and thermal insulation. *K-Panel* should be fitted to a plumb surface - over existing tiles, brickwork, blockwork, plaster walls and boarded-out stud partitions.

Hygienik Systems has established successful partnerships with the UK's leading building contractors, architects, specifiers and surveyors and we are experts in cladding materials, bespoke cladding solutions and all aspects of safety and hygiene performance.

#### Suitable for:

restaurant kitchens, food and drink manufacturers, food counters in supermarkets, school canteens, industrial manufacturing plants, offices, care homes, sports clubs, laboratories, leisure centres, hotels, pharmacies, surgeries and mortuaries.

For further information or technical advice

Call **01274 578 051**

Email: [info@hygiene.com](mailto:info@hygiene.com)

[www.hygiene.com](http://www.hygiene.com)



## Description

### Extruded semi-rigid UPVC sheet

- Performance:** Foodsafe and UV stabilised
- Colour:** White, light grey, dark grey and metallic grey. Colour-matched panels available on request, subject to minimum order quantities.
- Surface finish:** Gloss (Matt finish available on request)

## Measurements

- 2mm K-Panel:** 2500mm x 1220mm x 2mm  
3000mm x 1220mm x 2mm
- 2.5mm K-Panel:** 2500mm x 1220mm x 2.5mm  
3000mm x 1220mm x 2.5mm
- Weight:** 3.5 kg per m<sup>2</sup>
- Service temp:** -10°C to +50°C

## Flammability

*K-Panel* is self-extinguishing and complies with the most demanding international fire resistance standards defined for plastics, as shown below.

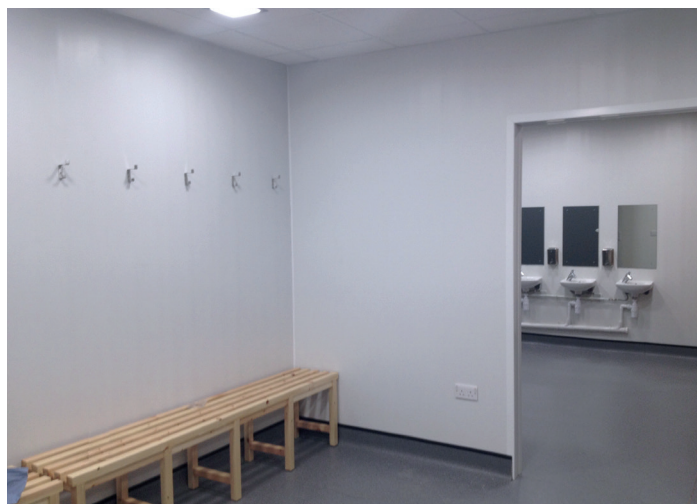
Standard:	Classification:
EN 13501	B, s3, d0
DIN 4102	B-1
BS 476/7	Class 0
NSP 92501,5	M-1
ASTM E 84	Class A

## Chemical Resistance

**High resistance** to mineral acids, alkalis, plating solutions, paper making chemicals, pickling solutions, inorganic solutions and fumes. **Good resistance** to alcohols, aliphatic hydrocarbons, glycols, amines, phenols. **Not recommended** for contact with ketones, chlorinated solvents, aromatic hydrocarbons, some esters and ethers.

## Surface Preparation

Panels should be fitted to a plumb surface and can be fitted over existing tiles, brickwork, blockwork, plaster walls and boarded-out stud partitions. The sheets fix directly to the dry substrate using professional adhesives.



## Cutting and Drilling

Panels can be cut to size using band circular or jig saws. The protective film on every panel should be left in place until installation begins. Use slow machine/drill speeds to prevent overheating.

## Joints

Panels are fixed using PVCu 'H' joints and end trims. Hot welded joints are occasionally recommended, but are not needed for standard installations. Powder coated aluminium 'H' joints offer a robust and stronger alternative for high traffic areas where impacts are likely. Thermoforming requires temperatures between 130°C and 170°C.

## Corners

*K-Panel* sheets can be expertly thermoformed on-site ensuring a professional finish and minimising edge joints around corners, windows and doors. External corners in high traffic areas can also be over-clad with robust corner protectors.

## Cleaning

Regular cleaning using a soft cloth and a suitably diluted mild detergent is all that is normally required. Do not use abrasive pads or wire wool. Do not clean above 50°C.

## Temperature

*K-Panel* sheet has a maximum working temperature of 50°C. For higher temperatures (e.g. open flame areas in kitchens) we recommend stainless steel panels.

## Technical Data

Property	Method*	Conditions	Units	Value
Density	D-792		g/cm <sup>3</sup>	1.4
Heat deflection temperature (HDT)	D-648	Load: 1.82MPa	°C	65 - 68
Service temperature			°C	-10 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 <sup>-5</sup>
Rockwell hardness	D-785		R Scale	97R
Tensile strength at yield	D-638	10mm/min	MPa	50
Tensile strength at break	D-638	10mm/min	MPa	45
Elongation at yield	D-638	10mm/min	%	3
Elongation at break	D-638	10mm/min	%	>80
Tensile modulus of elasticity	D-638	1mm/min	MPa	2,900
Flexural strength	D-790	1.3mm/min	MPa	80
Flexural modulus	D-790	1.3mm/min	MPa	2,700
Impact falling weight	ISO 6603/1 E50	3mm sheet	J	95

\*ASTM except where noted otherwise



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