

Cleaning Strategy & Maintenance for all Hygienik products

All products can be readily cleaned by regularly washing with copious quantities of water or diluted soap/detergent solutions. The latter has the added advantage of making the PVC surface temporarily anti-static.

We also supply multi-purpose cleaning wipes, that are quick, convenient and highly effective for Hygienik products. These will remove Silicone PU Foam, most adhesives, paints, oils and grease from surfaces, hands and tools. Wipes are supplied in containers of 80 wipes, 20cm x 30cm.

Proprietary cleaners should NOT be used unless specifically stated to be suitable because they contain an abrasive or a solvent that could adversely affect the PVC surface. The materials may be pressure cleaned for sterilisation purposes.

The recommended maximum continuous working temperature of Hygienik products is 60 degrees Celsius/140 degrees Fahrenheit.

Pressure washing

Please note that we do NOT recommend the use of **hot water lances** for cleaning PVC cladded walls. Extremely hot water that exceeds 60 degrees Celsius and steam can damage the seals.

Careful pressure washer cleaning at lower temperatures in conjunction with good quality detergents will ensure perfect results. In all cases the lance should not be pointed too close to the cladding (within 600mm).

Temperature

As previously stated the working temperature in areas near to our PVC sheets must not reach or exceed 60°C.

This is because a 2mm to 3mm expansion gap has been created at all joints and where services and fixtures penetrate the PVC sheet (e.g. pipes, cables, wiring, cross beams etc.) This allows the PVC to expand safely in temperatures below 60°C.

If the temperature exceeds 60°C the expansion of the PVC may result in broken hygienic seals in the cladding.

Careful pressure washer cleaning at lower temperatures in conjunction with good quality detergents will ensure perfect results. In all cases the lance should not be pointed too close to the cladding (within 600mm).

Hot pipes and steam pipes will have been insulated during installation and 3mm to 5mm expansion gaps allowed for and filled with flexible silicone.

Particular attention to temperature must be made in kitchens. **Extra care should be taken with *K-Panel* sheets in close proximity to ovens, hobs, griddles, toasters, kettles, sandwich makers and similar devices that generate very high temperatures. We recommend small stainless steel splashbacks behind this equipment.**

Similar levels of care should be taken in boiler rooms, plant rooms, laboratories, laundries and in manufacturing plants where machinery generates excessive heat.

Note: Following a *K-Panel* installation in a kitchen, care should be taken not to locate ovens, hobs, griddles, toasters, kettles, sandwich makers and similar kitchen appliances in close proximity to the PVC wall cladding. We recommend stainless steel splashbacks for these areas. In non-kitchen areas, care should also be taken to avoid installing any heat generating machinery close to *K-Panel* cladding.

Quality Management System

We will implement our Quality Plan on all relevant installation projects as stated below in conjunction with the agreed specifications finish schedule and any drawings provided.

Labour

All operatives are qualified tradespersons with extensive experience in the nature of the works they carry out. All of our employees on site hold up-to-date construction skills certification scheme (CSCS) accreditation.

Plant

Where applicable, certified Hygienik Systems personnel will source any additional plant equipment required from reputable specialists to aid installation. Test certificates will be obtained to ensure the plant is suitable for the purpose required.

Materials

All materials will be ordered from our approved suppliers and manufacturers list. They will be stored and transported in accordance with the manufacturers' written instructions for the purpose required.

Health & Safety – Control of Substances Hazardous to Health (COSHH)

PVC SHEET

1: Commercial

Chemical characterisation	Unplasticised Polyvinylchloride UPVC
Trade or common names	<i>K-Panel</i> , Am-Guard
Product range	Sheet (pressed and extruded)
Colour and appearance	Opaque, various colours

2: Physical and chemical characteristics

Change in physical state	Softening point – approximately 80°C Melting point – 170-200°C
Density (specific gravity) at 20°C	1.3-1.5
Decomposition temperature	>200°C
Self-ignition temperature	N/A
Hazardous Decomposition	Hydrogen chlorides and other toxic fumes may occur on combustion
Products	Good chemical resistance to Ammonia
Incompatibility	No incompatible products and aromatic sealants.

3: Transport regulations

UPVC products are not classified as hazardous for transport. No special precautions.

4: Health hazards

Health exposure	No known hazards
Toxicity	Some raw materials involved in manufacture may present a hazard but the sheets do not normally constitute a hazard
Skin contact	No dermatitis hazard known
First Aid	Medical assistance should be sought if exposed to fumes from decomposition.

5: Waste disposal

UPVC sheet waste and off cuts are 100% recyclable by licensed recycling companies and our cladding sheets generate Zero Waste to Landfill.



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.

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.

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.

For further information or technical advice

Call: **01274 578 051**

Email: info@hygiene.com

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 m²
- 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 ³	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 ⁻⁵
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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10-14 Ward Street, Bradford, West Yorkshire BD7 3PR

