

" Protecting business and property

with FireSafe insurer FM approved systems "





Insurance Certification...

Factory Mutual Global (FM) Approval Requirements

www.itc-group.co.th

FM Global (FM), formally known as Factory Mutual, has a severe test standard for assessing reaction to fine, This test standard is FMRC 4880 (1994) Approval requirements for Class 1 fire classification.

I.T.C. (1993) CO., LTD.

10, 12 ซอยรามคำแหง 118 แยก 61 แขวงสะพานสูง เขตสะพานสูง กทม. 10240 10, 12 Soi Ramkhamhaeng 118 Yak 61, Saphansoong, Saphansoong, Bangkok 10240 Thailand. Tel: +66-2184-0055 Fax: +66-2184-0065 info@itc-group.co.th





Gold Store Panels

Insulation_Panel





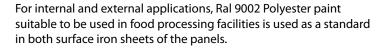
Fire Test





Front

Back



The Optional facings are:

PVDF : For inside and outside use where there is a high risk of

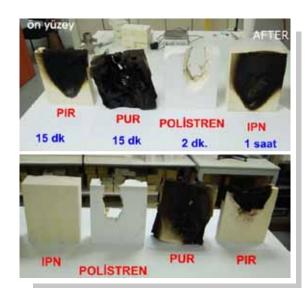
Plastisol : High elasticity and very good corrosion-prevention

properties; suitable especially for internal use.

Niro 1.4301 : Rust - resistance according to EN 10088-2, for heavy

duty use, (stainless steel)

Kingspan Izopoli cold store panels, facings are long lasting, easy to care and provide hygienic and low cost solutions.



Foam Tech	nical Data	IPN	Unit		
Suggested Appli	cation Temperature	-200~ +100	°C		
Thermal Conduc	tivity (λ)	0, 020 - 0, 021	W/mk		
Compressive Str	ength (10% to expand)	≤ 0, 14	N/ mm²		
Shear Strength		40 - 50 mm ≤ 0, 14			
		60 - 80 mm ≤ 0, 12	N/mm²		
		≥ 100 mm ≤ 0, 06			
Water Absorptio	n (%Volume)	≤%2	% Volume		
Vapour diffusion	Strength (μ)	70 - 80	-		
Fire Class	EN 13501-1	B s1 d0	-		
	FM 4880	Class 1	-		
Closed Cell Cont	ent	% 95	-		

"FM Global 50 feet (15.84 m) Wall Test On Kingspan Panels"

FMRC 4880 approval requirements for class 1 fire classification with on height restriction.



























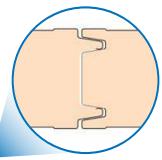
Gold Store Panels

Insulation Panel









The double tongue and groove edge alignment ensures a precise Interlocking of the panels and dimensional accuracy. This positively eliminates the risk of thermal bridging and provides an air-tight between panels after erection.



Izocold	725
	t±2
1000, 1100, 1150 ± 2	

Megacold

Pharmacold

Dimensional Stability and	sional Stability and long Term Thermal Performance						
Insulation materials	Rigid IPN foam does not contain CFC and HCFC						
Density	40±2 Kg/m³						
Fire reaction (IPN)	In EN 13501-1 standard, B s1 d0 -						
	FM 4880 Class1						
Product Length	Depending on the panel thickness, it						
	can be produced up to 19 m.						
Product Conformity Standard	TS EN 14509						
Acoustic Insulation	About 25dB in all panel thicknesses.						

IPN wall panels are effectively perform the following functions over the lifecycle of the building.

- Food and hygiene safe
- FireSafe property protection
- Provides a thermal barrier Provides a vapour airtight and gas barrier
- Resists moisture ingress
- Suitable for "wash and clean' down
- Walk-on ceilings
- Lightweight construction
- Low energy operating costs

	Thickness mm		U - Value W/m²	Weight Kg/m²	Ceiling element span, cantilever as single - span girder	distances, system W	walls bolt sigle - span /all Height to 8 - 20 m	Thickness mm	Drawing	U - Value W/m²	Weight Kg/m²	Ceiling element span, cantilever as single - span girder	Outside walls bolt distances, sigle - span system Wall Height to 8 m to 8 - 20 m	
				0.5 + 0.5	Аррх. т	Аррх. т	Аррх. т				0.5 + 0.5	Аррх. т	Аррх. т	Аррх. т
IZOCOLD	40	//	0.53	9.92	3.00	2.50	2.00	120		0.18	13.12	8.00	6.00	5.50
	45	;/;	0.47	10.12	3.50	2.88	2.25	140		0.15	13.92	8.50	6.50	5.75
	60		0.35	10.72	5.00	4.00	3.00	150		0.14	14.32	9.00	7.00	6.00
	80		0.26	11.52	6.00	5.00	4.00	170		0.12	15.12	9.00	7.00	6.00
	100		0.21	12.32	7.00	5.50	5.00	200		0.11	16.32	10.00	7.50	6.50

The figures ar for 05.50 / 0.50 mm metal thickness.

