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PRODUCT RANGE

2. 1 ECOPANEL - Product description

The thermo-insulated panels are manufactured by two metal sheets bonded together with an insulation core. They then create a compound product, which is at the same time light and resistant; succeeding in combining the maximum advantages of the materials it is made of: durability, insulation and aesthetics.

The compound product's name 'panel' first came about in the European building market during the 60's and has prevailed in today's market.

The automation of its production procedure has made the product financially affordable in comparison to other building lining solutions. It has also helped it dominate in the European construction map.

The main advantages of material are:

- 100% thermally reliable
- Monolithic material with the guarantee of industrial production
- Long term weather, thermal and structural performance durability
- Rigid and lightweight construction solution
- Air-tight & water-tight joints
- Eliminate cold bridges, interstitial cavity condensation within construction
- Non deleterious
- Low air leakage
- Range of aesthetic options from profiled to flat appearances combined with concealed fixings

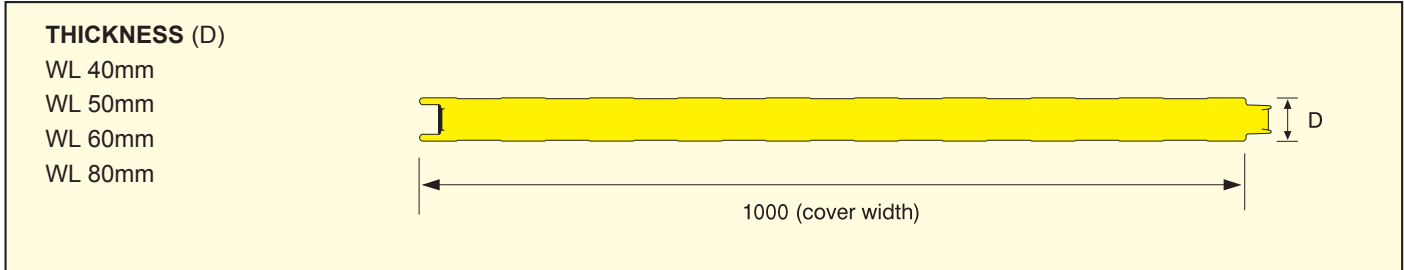
ECOPANEL products manufactured in our company's factory combine the above advantages along with an economic solution for building facilities.

Our production procedure fully harmonises with the worldwide insulation foam product market demands.

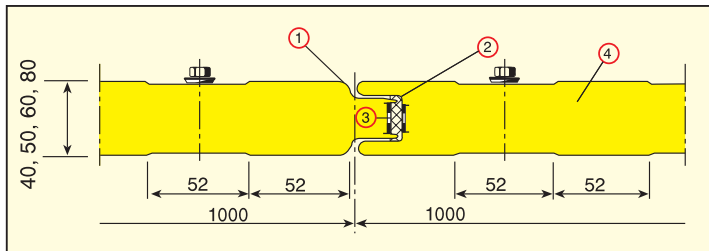
The maturing of the thermal insulated panel foam does not require blowing agent harmful to the environment such as chlorofluorocarbons (CFC) and hydrochlorofluorocarbons (HCFC) which destroy the ozone layer and which, according to the Protocol of Montreal, should be largely withdrawn by the year 2010



ECOPANEL WL (wall panel)



SPECIAL FEATURES



- ① Suitable shaping of the external sheet to resist external influences such as weather, temperature fluctuations and mechanical stress.
- ② Factory-fitted foam tape in the female side of overlap for a greater jointing sealability.
- ③ Aluminium foil strip, which means less gas escapes from the polyurethane cells thus ensuring good conductivity for longer.
- ④ Polyurethane foam core CFC Free & HCFC Free. Not harmful to the environment and no damage to the ozone layer. Blowing agent (pentanium) gives also 50% higher mechanical properties in the foam.

PRODUCT TECHNICAL CHARACTERISTICS

PANEL TYPE	SHEET THICKNESS (mm)		CORE THICKNESS (mm)	WEIGHT (kg/m ²)	HEAT TRANSMISSION COEFFICIENT K (W/m ² K)	HEAT TRANSMISSION RESISTANCE 1/Λ (m ² K/W)	MAX LENGTH (m)
	OUTER	INNER					
WL 40	0.5 0.6	0.5	40	10.04 10.63	0.58	1.56	15.0
WL 50	0.5 0.6	0.5	50	10.44 11.03	0.47	1.96	
WL 60	0.5 0.6	0.5	60	10.84 11.43	0.39	2.36	
WL 80	0.5 0.6	0.5	80	11.64 12.23	0.3	3.16	

Thermal conductivity as per DIN 52612 (λ=0,025 W/m.K)

PANEL TOLERANCES

- **CUTTING LENGTH:** ± 4 ~ 8 mm
(In relation to panel's length)
- **COVER WIDTH:** ± 2 mm
- **THICKNESS:** ± 2 mm
- **END SQUARE:** ± 3 mm