

Products Catalogue

code 12AP21 Easy Panel



Polyurethane foam panel with $44 \pm 2 \text{ kg/m}^3$ density, 20 mm thickness, coated on both sides with 80-micron thick aluminium foil.

The aluminium foil is embossed on both sides and coupled with a 2 g/m^2 layer of corrosion-resistant polyester paint. This panel is especially suited for use in air-conditioning and heating system installations. 48 m² pack.

Panel dimension	4000 x1200 mm	Panel thickness	20,5 mm
Foam density	$44 \pm 2 \text{ kg/m}^3$	Aluminium thickness	80/80 micron
Thermal conductivity	$\lambda_g = 0,023 \text{ W/(m K)}$	Aluminium foil	embos./embos.

Certification Available:

- British Standard 476 part 6
- British Standard 476 part 7
- Summary Report BS476 part 6 & 7 : Class 0
- NES 713 toxicity index
- Certificate of Thermal conductivity

code 12AS21 Easy Panel for out door application



Polyurethane foam panel with $44 \pm 2 \text{ kg/m}^3$ density, 20 mm thickness, coated with 200µ thick aluminium on one side and 80µ on the other. The aluminium foil is embossed on both sides and coupled with a 2 g/m^2 layer of corrosion-resistant polyester paint. The combination of the panel's thickness and the 200µ thickness of the external aluminium coating, gives an extraordinary rigidity and mechanical resistance against accidental damages which makes the panels suitable for outdoor installations. 48 m² pack.

Panel dimension	4000 x1200 mm	Panel thickness	20,5 mm
Foam density	$44 \pm 2 \text{ kg/m}^3$	Aluminium thickness	200/80 micron
Thermal conductivity	$\lambda_g = 0,023 \text{ W/(m K)}$	Aluminium foil	embos./embos.

Certification Available:

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12AP21 - TECHNICAL DATA SHEET

DESCRIPTION

Sandwich panel made of an insulating component in rigid polyurethane foam and laminated on both sides with centesimal aluminium foil.

UTILIZATION

This panel is suitable for the construction of air-distribution ducts in air-conditioning and heating systems.

DIMENSION AND TOLERANCE

The standard production thickness is of 20,5 mm with a tolerance of $\pm 0,5$ mm (within the tolerance foreseen by ISO 1923 standard). The standard production length is of 4000 mm with a tolerance of ± 5 mm (within the tolerance specified by ISO 1923 standard).

The standard production width is of 1200 mm with a tolerance of ± 3 mm (within the tolerance specified by ISO 1923 standard).)

The squaring operation is carried out with an accuracy of $\pm 0^{\circ}30'$.

INSULATING MATERIAL CHARACTERISTICS

The rigid foamed polyurethane of which the panel is made is the result of a chemical reaction between specifically formulated, first quality polyols and isocyanates. The polymer obtained from the specific reaction (which involves the transition from the liquid to the solid state) is physiologically and chemically inert, insoluble and unable to be metabolized.

The density of the panels foamed PUR is of 44 kg/m^3 with a tolerance of $\pm 2 \text{ kg/m}^3$

The sheathing is made up of centesimal aluminium with a thickness of 80 μm on both sides of the panels: this sheathing is coated with a lacquer based on polyester resin on one side and on the other by thermo-welding lacquer based on vinyl resin.

SPECIFIC HEAT CONDUCTIVITY

Thanks to the high number of closed cells, exceeding 95%, the foam of the panel has a coefficient of initial specific heat conductivity, measured according to ISO 8302 standard of $0,023 \text{ W/(m K)}$ at the temperature of 10°C .

UTILIZATION TEMPERATURE

The panel can be used constantly in a temperature range from -30°C to $+65^{\circ}\text{C}$ without any substantial difference in thermo-ventilating insulation specifications.

PACKAGING

Delivery is made in packs of 10 panels, packed with thermo-ventilating shrinkable polythene sheets.

WARNINGS

The information and data contained herein are based on the present technical knowledge and practical experience of manufacturer as well as on documentation considered reliable, but which has no binding value.

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The sheathing is made up of centesimal embossed aluminium with a thickness of 80 μm on one side of the panel and 200 μm on the other: this sheathing is coated with a lacquer based on polyester resin on one side and on the other by thermo-welding lacquer based on vinyl resin.

SPECIFIC HEAT CONDUCTIVITY

Thanks to the high number of closed cells, exceeding 95%, the foam of the panel has a coefficient of initial specific heat conductivity, measured according to ISO 8302 standard of 0,023 W/(m K) at the temperature of 10°C.

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Invisible flange joint and tee connector

P36 FI 02 L0 - Invisible flange joint aluminum 20 mm

This special aluminium flange permits 20 mm th. ducts to be joined with extremely low leakage. The bars are supplied in 4 meter lengths.



P36 FI 03 L0 - Invisible flange joint aluminum 30 mm

This special aluminium flange permits 30 mm th. ducts to be joined with extremely low leakage. The bars are supplied in 4 meter lengths.



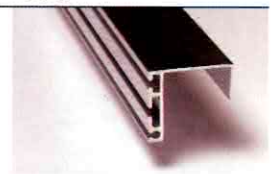
P36 FI 12 L0 - Invisible flange joint polymer 20 mm

This special aluminium flange permits 20 mm th. ducts to be joined with extremely low leakage. The bars are supplied in 4 meter lengths.



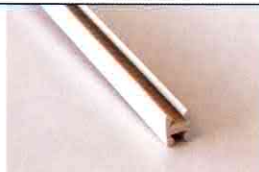
P36 FT 03 L0 - Tee connector flange joint 20/30 mm

This flange permits the flanging of one duct into the side of another take-offs as tap-in or plenum chamber. The bars are supplied in 4 meter length.



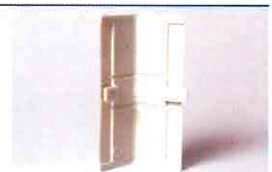
P36 FH 00 I0 - H polymer bayonet

Built in shock-resistant polymer, this piece permits "invisible flanges" to be connected. Supplied in 4 meter rods.



P36 AP 99 2L0/3L0 - Covering angle 20/30 mm

Grey polymer covering angle.



P36 AZ 92 L0/93 L0 - Zinc-coated steel angle bracket 20/30 mm

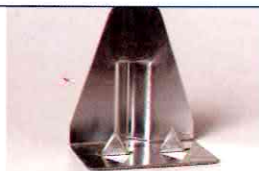
1.5 mm thick zinc-coated steel angle bracket.



Supports

P36 AH HB I0 - Hooked hanger bracket

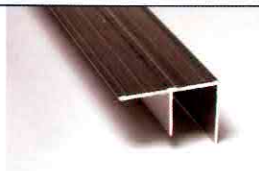
This 1.5 mm zinc-coated bracket is used for rapid duct support and hanging. These brackets are equipped with a slot for the insertion of the threaded bar.



AHU & Grilles connections

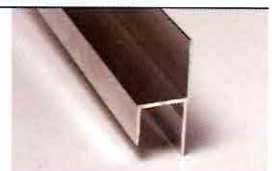
P36 FF 02 L0/3L0 - "F" section bar in aluminium - 20/30 mm

Permits all accessories with fastening frames higher than 20 mm to be fastened to the ducts. Supplied in 4 meter rods.



P36 FC 02 L0 - Chair section bar in aluminium - 20 mm

Used to fasten ducts to air handling units and in the assembly of linear diffusers. This section bar is supplied in 4 meter rods.



Reinforcement

P36 FR 00 L0 - Reinforcement section bar in aluminium

Special high stiffness aluminium alloy reinforcement section bar.
Bars are supplied in 4 meters rods.



P36 AD 90 L0 - Aluminium shaped disk

Aluminium disk to distribute the pressure created at the centre over a wider surface to prevent damage to the panel. Disk diameter 100mm, hole diameter 10 mm.



HWA 20 26 4 - Self threading screws

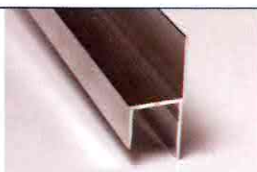
Hexagon head self-threading screws with washer. Used to fasten reinforcement section bars, wing-profile turning vanes and splitters in elbows, etc.



Access doors

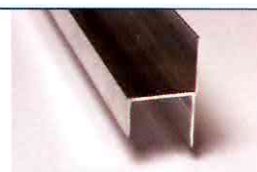
P36 FG 02 L0 - Chair section bar in aluminium - 20 mm

This section bar is also used to fasten ducts to air handling units. Together with the "U" section bar, this section bar is used to build access doors. This section bar is supplied in 4 meter rods.



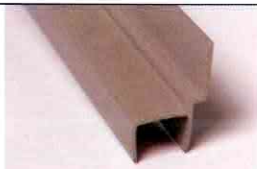
P36 FG 03 L0 - Chair section bar in aluminium - 30 mm

This section bar is also used to fasten ducts to air handling units. Together with the "U" section bar, this section bar is used to build access doors. This section bar is supplied in 4 meter rods.



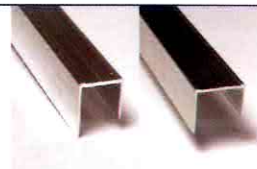
P36 FC 12 L0 - Chair section bar in polymer - 20 mm

This section bar is also used to fasten ducts to air handling units. Together with the "U" section bar, this section bar is used to build access doors. This section bar is supplied in 4 meter rods.



P36 FU 02 L0/03 L0 - "U" section bar in polymer 20/30 mm

Extremely versatile aluminium section for fastening of anti-vibration joints, volume dampers, and connection to sheet metal ducts. This section bar is supplied in 4 meter rods.



Glues, tapes and sealants

P36 AG 90 10/L0 - Paint glue 5/15 kg

Special glue formulated to obtain perfect adhesion on easy panels foam. The product is supplied ready-to-use. Dilution is possible with special solvent (cod. 21CL00)



P36 AT 90 L0 - Easy aluminum tape

Self-adhesive aluminium tape to use in the construction of the ducts.
Supply: 50 meters roll and 16 rolls pack.
Available standard model cod. 21NS01.



P36 AS 91 L0 - Duct sealant

Single component silicone sealant.
280 cc stick.



P36 AG 86 L0 - Profiles glue

Medium-viscosity adhesive for the gluing of aluminium and Polymer section bars.
500 gr pack.



P36 AG 86 E0/87 10 - Ultra rapid glue 50/500 gr

Medium-viscosity "super-glue" to glue aluminium section bars to the panels in just a few seconds.





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