

Update April 2016

LAMINATE "KLMI" INTERNAL DOOR

Internal door made of aluminium and plastic laminate leaf, **soundproof**.

ISTITUTO GIORDANO TEST REPORT NO. 268883

33 dB

Regulatory framework

- UNI EN ISO 140-3:2006 of 16/03/2006 "Acoustics-Measurement of sound insulation in buildings and of building elements-Part 3: Laboratory measurement of airborne sound insulation of building elements"

- UNI EN 717-1:2007 of 19/07/2007 "Acoustics. Rating of sound insulation in buildings and of building elements. 1: Airborne sound insulation.

General features of the sample:

The sample tested consists of an aluminium/wood hinged door, with the following physical features:

- Nominal width of the sample = 980 mm
- Nominal height of the total sample = 2140 mm
- Useful acoustic width = 920 mm
- Useful acoustic height = 2110 mm
- Useful acoustic surface = 2.10 m²
- Weight (frame + hinged leaf) = 31.5 leaf 10.6 frame Tot. 42.10 kg

• Subframe:

On three sides, consisting of jambs and head, made with planed boards in fir wood, footprint 1000 x 2150 mm, assembled at the corners with pairs of steel self-tapping screws.

- **Frame:**

Shaped split frame in anodised aluminium, silver coloured, 17/10 mm thick, footprint 88 x 78 mm; jambs and head assembled at the corners with the help of aluminium brackets.

The fixed frame is assembled to the wooden subframe by using steel screws and is perimetrically sealed to the subframe with polyurethane foam.

The frame includes a back part (for wall sheathing) placed on the side opposite to the front part, made with an aluminium shaped profile, thickness 15/10 mm and footprint 65 x 65 mm.

- **Plastic laminate leaf:**

The door leaf is made with a perimeter frame with jambs and head in fir wood and footprint 50 x 30 mm; infill panelling on both sides with MDF panels, total nominal thickness 4 mm, external surface finish with plastic laminate, total nominal thickness 0.9 mm; bonding through polyurethane glue-based mixture between perimeter frame and infill panelling. Internal insulation by means of rock wool having total nominal thickness 30 mm and density 100 kg/m², spot assembly with polyurethane glue. Leaf 40 mm thick.

EPDM tubular seal applied along the fixed frame in opposition to the hinged leaf.

EPDM lip seal applied along the fixed frame in opposition to the hinged leaf.

Rubber drop-down seal mounted on the lower side of the leaf with total nominal section of 13 x 28 mm; comprehensive of removable mobile profile, plastic push button, two stainless steel return springs and wrapping seal in flame retardant silicone.

Aluminium lever handle placed on both sides of the sample, lock and cylinder.

Three aluminium adjustable hinges with internal steel pin by **N.E.C.** Chiusure srl, diameter 16 mm and length 90 mm.

- **Lock:**

- Lock with latch bolt, complete with a cylinder with three keys of the Yale type.

- **Handle:**

- Silver coloured return to door resin handle, complete with washers.

- **Mounting:**

- The frame is provided with holes for mounting with self-tapping screws or through dowels.

- **Available accessories and finishes:**

- Knobs of the push/open type
- Vacant/engaged sign
- Aluminium/steel handle, elongated for disabled people
- Panic bar with external devices
- Fixed handle for disabled people
- Overhead door closer

- MK cylinder (encoded cylinders)

• **Surface finishes:**

- Aluminium elements anodised in different colours
- Aluminium elements powder painted
- Laminates in different types and colours of your choice

• **Standard single leaf types:**

Outer frame 780 x 2140 mm = Clear door opening 720 x 2110 mm

Outer frame 880 x 2140 mm = Clear door opening 820 x 2110 mm

Outer frame 980 x 2140 mm = Clear door opening 920 x 2110 mm

NOTE - In standard types the back part of the frame must be calculated in relation to a minimum wall thickness of 10 cm, up to a maximum of 17 cm.

For wall thicknesses greater than 17 cm, extensions of 5 cm or 7.5 cm must be calculated in relation to the wall thickness.

• **Wording to be placed in contract specifications and quotations:**

Internal door with aluminium split frame and laminate leaf ("KLM1" type), **soundproof**.

Silver coloured anodised aluminium elements; plastic laminate leaf in different types and colours of your choice.