



SOUNDPROOFING

# VELAPHONE

## FLOOR SOUNDPROOFING SYSTEM



**VELAPHONE** is an acoustic membrane made of polyester felt and a vapour barrier film (black film). It is specially designed to be mainly used on wood structures under a layer of 1½ in (38 mm)-thick self-levelling concrete.

### BENEFITS

- Provides structural waterproofing while concrete is poured.
- Prevents a too-rapid evaporation of water from the concrete to improve curing.
- Resists crushing; preserves its acoustic properties.

### SURFACE PREPARATION

Unroll the VELAPHONE membrane on the wooden deck. The deck must be free of all debris, such as wood chips, screws, nails, or any other element that may puncture the VELAPHONE membrane during concrete pouring. Generally, a good sweeping should do the trick. You must also make sure that there are no screws or nails on the sill sides on which the VELAPHONE membrane will be installed.

### INSTALLATION METHOD

Install the VELAPHONE membrane with the polyester felt facing down the subfloor.

**AFTER BUILDING DIVISIONS:** Begin the VELAPHONE installation along the walls. Lift the longitudinal side of the membrane with a self-adhesive strip parallel to the adjacent wall. Apply the entire self-adhesive strip and no less than 51 mm of the regular surface to the wall surface. Do this on all the walls and divisions for the membrane to cover the entire surface between the walls and the self-levelling concrete to be applied.

Lay subsequent lengths one by one, using the self-adhesive overlaps. Repeat this step until the entire room is covered. At roll ends, the edge must join with, but not overlap, the previous one. Seal the joint with construction adhesive tape such as sheathing tape.

When you reach the opposite wall, it is necessary to apply the membrane about 51 mm up the wall in order to ensure there is a membrane surface between the structure and the concrete. Then the concrete covering can be poured on the VELAPHONE membrane.

**BEFORE BUILDING DIVISIONS:** Install as described above, covering the entire floor surface.



**SOPREMA**®

SOPREMA.US • 1.800.356.3521

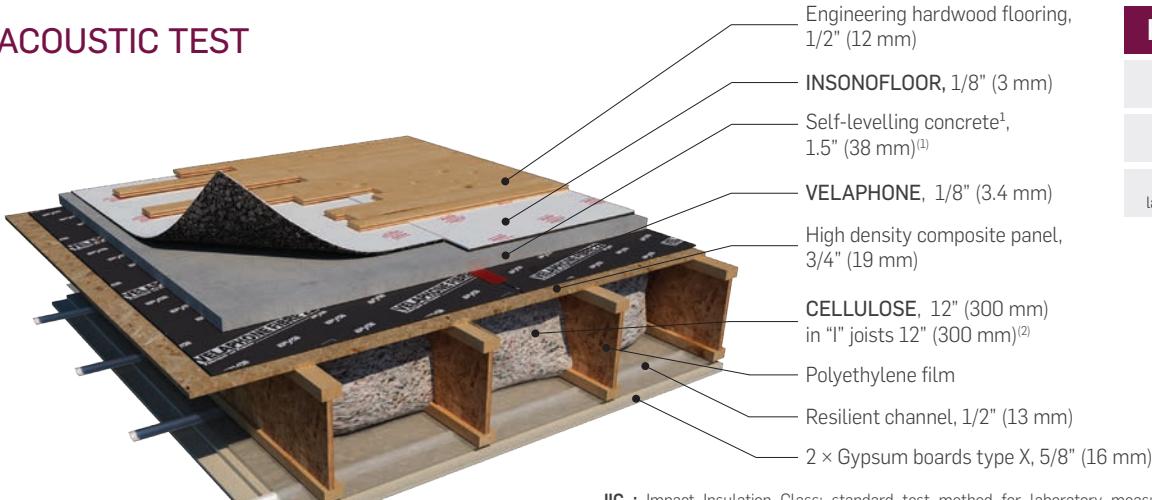
SOPREMA.CA • 1.877.MAMMOUTH

**BEFORE BUILDING DIVISIONS, WITH SILL PLATES IN PLACE BEFORE POURING CONCRETE:** The sill plates will act as your reference point for the depth of the concrete. Install as described above and up the sills as well.

When the concrete has hardened, cut the excess membrane on top of the concrete at the perimeters. Apply acoustic sealant on the VELAPHONE edges, where the wall and concrete meet.

You may then begin the flooring installation.

## ACOUSTIC TEST



## PROPERTIES\*

IIC 62

STC 61

Note: Test performed on laboratory on a complete floor

**IIC :** Impact Insulation Class; standard test method for laboratory measurement of impact sound transmission through floor-ceiling assemblies using the tapping machine. Tests in compliance with the ASTM E492-09 standard.

**STC :** Sound Transmission Class; standard test method for laboratory measurement of airborne sound transmission loss of building partition. Tests in compliance with the ASTM E90-09 standard.

\*IIC and STC results are presented for information purpose only. Equivalent performance cannot be guaranteed by SOPREMA.

(1): According to us, the use of 32 mm (1 1/4 in) of self-leveling concrete or use of any type of concrete will not have a significative influence on the acoustical results.

(2): According to us, the use of web open joists will not have a significative influence on the acoustical results.

When the VELAPHONE membrane is turned up onto the wall, it creates a basin that retains water when the self-leveling concrete is poured. This detail also creates a noise barrier between the concrete slab and the wall structure.

## OTHER USE

The VELAPHONE membrane may also be used as an acoustic underlayment for tiles in the following assembly:

- Ceramic tiles and grout with sand and polymers; joints of 1/8 in (3 mm)
- Polymer-modified cement glue
- Mud-set of 3/4 in (19 mm)
- VELAPHONE membrane adhered to the substrate with SOPRAWAY adhesive
- Concrete slab

## PRODUCT CHARACTERISTICS

DIMENSIONS	39 in × 65 ft	(1 m × 20 m)
COVERAGE	215 ft <sup>2</sup>	(20 m <sup>2</sup> )
THICKNESS	1/8 in	(3.4 mm)
WEIGHT	Approximate 25.4 lbs	(11.5 Kg)

If you have any questions about this product or its installation, please contact your SOPREMA representative.

## ROBINSON AND ACOUSTIC TESTS FOR THAT ASSEMBLY

**Robinson:** Cycle 14

Residential, light, moderate, heavy and extra heavy (extra heavy and high impact use in food plants, breweries, and kitchens)

**Acoustic:** IIC = 56 to 59; STC = 53 to 57  
(estimated)

## WARRANTY

SOPREMA soundproofing products are guaranteed against all manufacturing defects and are suitable for all stated uses. SOPREMA's liability under this guarantee is limited to replacing or refunding the purchase price of SOPREMA soundproofing products found to be defective.