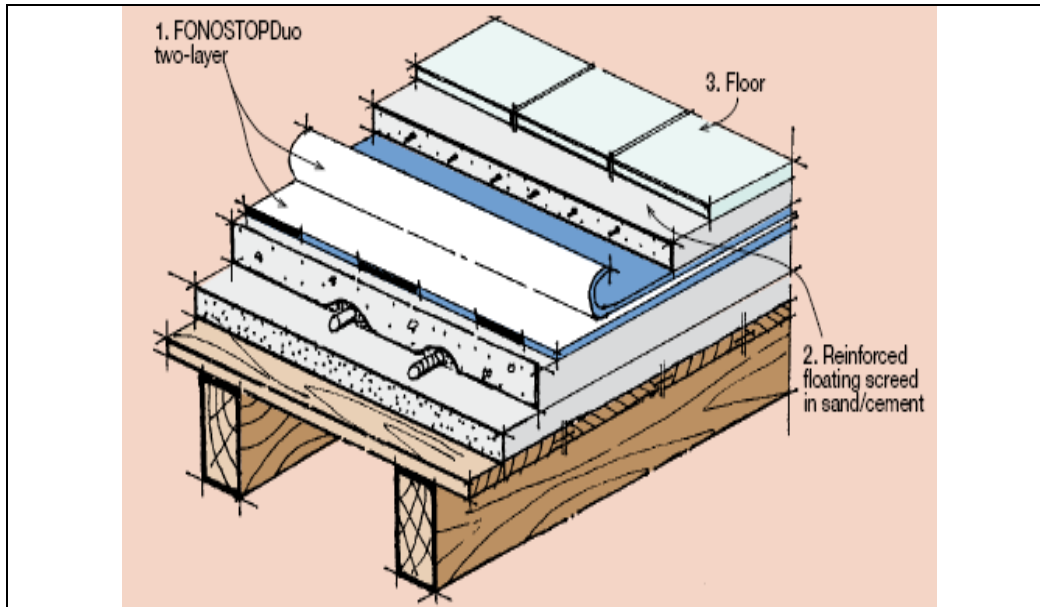


ACOUSTIC INSULATION OF WOODEN FLOORS AGAINST FOOT-TRAFFIC NOISE



Insulation of wooden floors

The acoustic insulation of floors against foot-traffic noise will be performed with the “floating floor” technique on acoustic insulation against foot-traffic noise with dynamic rigidity of $s' = 11 \text{ MN/m}^3$ measured in compliance with standard UNI-EN 29052 part 1st and approved by ITC-CNR (ex ICITE), made up of sound resilient foil coupled with non-woven polyester fabric, type **FONOSTOPDuo** laid in a double face-opposite-face layer. The insulating material will be supplied in 105 cm width rolls with a 5 cm overlap wing. The insulating sheets of the first layer will be laid on the smooth laying surface, overlapping them by 5 cm with the face covered with polyester fibre facing the top while the second layer will be laid parallel to the first and over the joining lines of the first layer with the face covered with polyester fibre facing downwards and the 5 cm overlaps sealed with the special adhesive SIGILTAPPE. The head ends of the insulating sheets will not be overlapped but brought up to each other and sealed with the same adhesive tape. The reinforced floating screed will be separated from the projecting walls by use of a self-adhesive strip in extruded polyethylene called **FONOCELL**. A screed will then be cast over the insulation that must be reinforced with electrically welded mesh and on which the foreseen flooring will be laid. The excess insulating material around the perimeter will be trimmed-off and the skirting board will be laid, which must be detached from the floor in order to prevent “acoustic bridges”. The partition walls will be insulated from the floor using strips of sound dampening elastomer material with dynamic rigidity under a load of 200 kg/m^2 $s' = 449 \text{ MN/m}^3$ and under a load of 400 kg/m^2 $s' = 937 \text{ MN/m}^3$, type **FONOSTRIP** with thickness of 4 mm and at least 4 cm wider than the thickness of the walls, which will be laid between the floor and the wall.