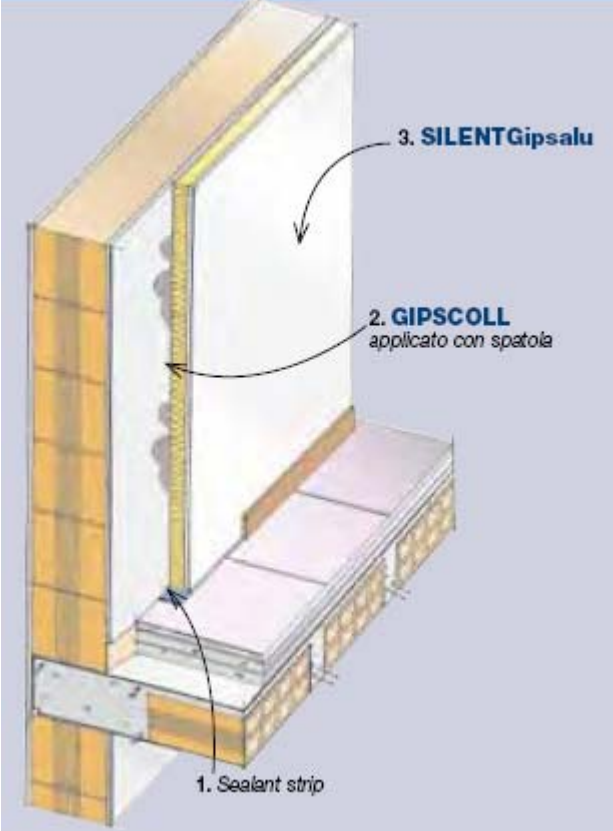
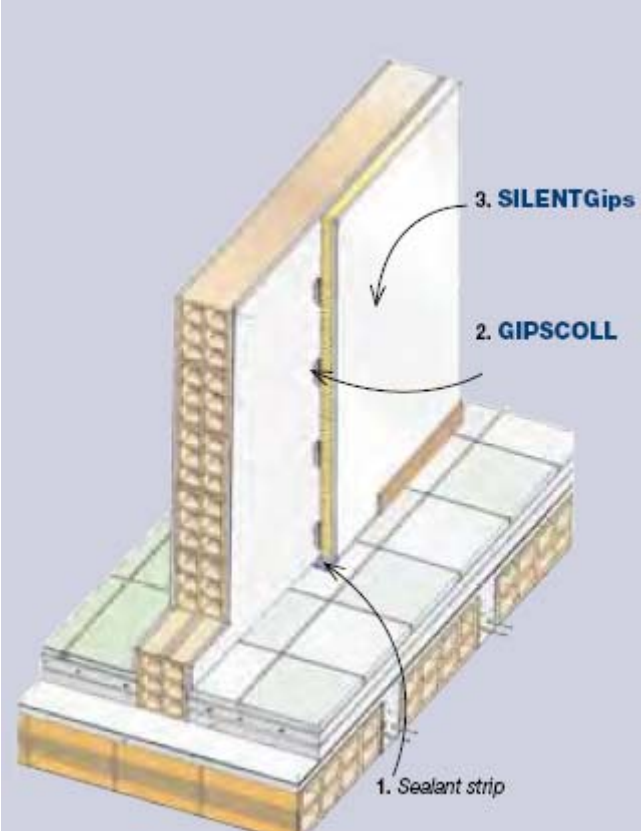
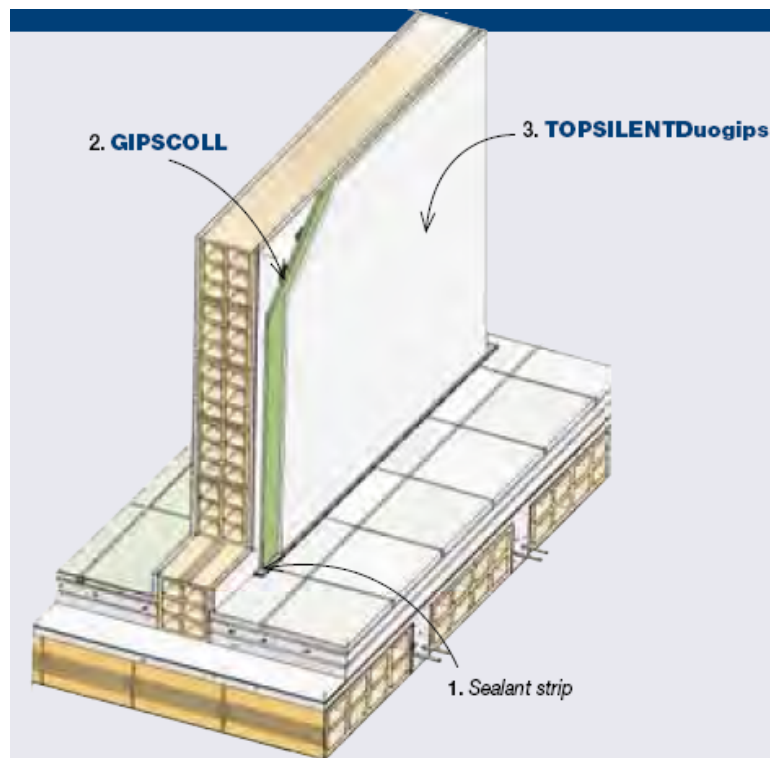


ACOUSTIC INSULATION OF WALLS AGAINST AIRBORNE NOISE IN EXISTENT BUILDINGS FIXED BY GLUING

	
<p>Existing external perimeter walls with glued insulation</p>	<p>Existing internal walls with glued insulation</p>
<p>The existing external perimeter walls will be acoustically insulated by cladding them with prefabricated slabs with a thickness of $s=...$ cm, consisting of a plasterboard with thickness of $s=9.5$ mm and vapour permeability of $\mu 8.4$, coupled to fibreglass with density of 85 Kg/m^3 and aqueous vapour permeability of $\mu 1.3$ and dynamic rigidity $s'=2,2 \text{ MN/m}^3$, protected by a built-in vapour barrier consisting of aluminium foil with thickness of $s=15$ mm and aqueous vapour permeability of $\mu=600,000$, type SILENTGipsalu. The slabs will be secured to the wall to be covered, with lumps of adhesive plaster type GIPSCOLL, and a NASTROGIPS joint-covering mesh will be laid across the element joining lines for the purpose of reinforcing the joint seals, to be effected with STUCCOJOINT stucco.</p>	<p>The internal perimeter walls dividing different residential units, will be acoustically insulated by cladding them with prefabricated slabs with thickness of $s=9.5$ mm and vapour permeability of $\mu 8.4$, coupled to fibreglass with density of 85 Kg/m^3 and aqueous vapour permeability of $\mu 1.3$ and dynamic rigidity $s'=2,2 \text{ MN/m}^3$ type SILENTGips. The slabs will be secured to the wall to be covered, with lumps of adhesive plaster type GIPSCOLL, and a NASTROGIPS joint-covering mesh will be laid across the element joining lines for the purpose of reinforcing the joint seals, to be effected with STUCCOJOINT stucco.</p>

THIN ACOUSTIC INSULATION



The thin acoustic insulation of walls (mass per unit area $\geq 140 \text{ kg/m}^2$) will be accomplished by cladding them with prefabricated panels with thickness $s=21 \text{ mm}$ and mass per unit area of 15 kg/m^2 , made up of a plasterboard panel with thickness $s=12.5 \text{ mm}$ and vapour permeability $\mu=8.4$, coupled with a soundproof foil with water vapour permeability $\mu=100.000$ lined with non-woven polyester fabric with dynamic stiffness of $s'=21 \text{ MN/m}^3$, type **TOPSILENTDUOgips**. The panels are secured to the wall to be lined using spots of plaster adhesive, type **GIPSCOLL**. Joint-covering mesh tape, type **NASTROGIPS**, will be laid over the joining lines of the elements to reinforce the seal of the joints made with **STUCCOJOINT** sealing filler.