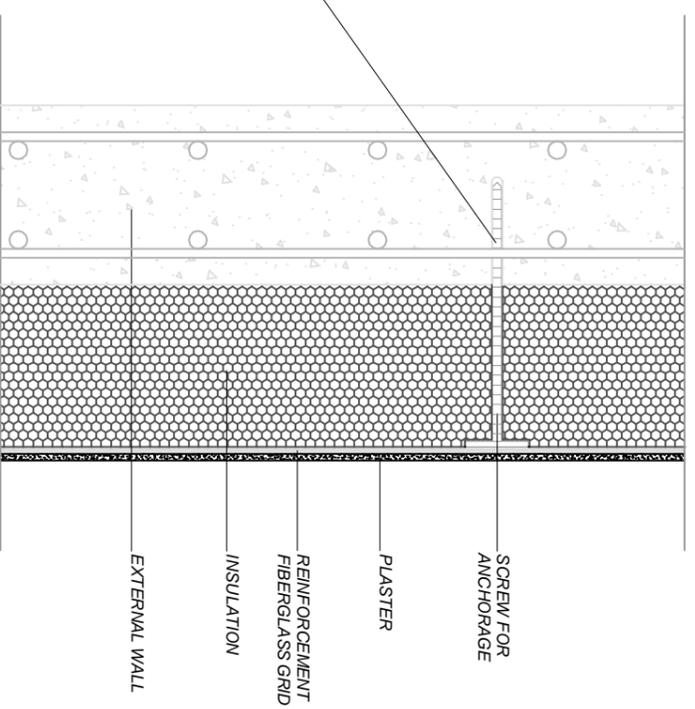


The roof of the theater is made with prefabricated alveolar slabs who rest in the walls. On the perimeter of the non-transitable roof there's a small beam like in the terrace.

Over the slabs there's a polyethylene plastic sheet as vapour barrier along all the roof, the next layers are the slope formation, made with lean concrete, the insulation (polystyrene rigid panels), the EPDM waterproofing membrane and on the last layer we place gravel. The gravel is too heavy and that's why we don't need to fix the insulation with screws.

On the edge of the beam there's a wood board to fix with struts the aluminum drip, this board is fixed to the beam with some screws too, fixing also the vapour barrier. To prevent water penetration, we overlap the EPDM over the screw head.

Inside the building, for the acoustical conditioning for the theater, there are rock wool panels installed, glued to the wall and to the floor, and over them, a pyramidal acoustic foam is placed to perform the acoustic of the place.



For the fixation of the insulation we use a screw with a dowel, and for the finishing of the external face of the wall, a reinforcement fiberglass grid is placed over the insulation and the fixation screws. At last a layer of plaster is placed to finish the wall.

FINAL PROJECT OF BUILDING ENGINEERING			
PROJECT	ADDRESS		
Sint-Barbara College - SITE PARKING	Savaanstraat 98-100 B-9000 Gent		
PLAN	Detail 4 - Wall and theater roof		
STUDENT	Devis Sanjuan, Carlos		
SCHOOL	DATE		
KAHO Sint-Lieven - Aalst	22/06/2012		
SCALE	TUTORS		
1 / 10	Peter Denie Lieve Weynais		
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