1) and 2)

DRILLED ALLUMINIUM BARS 60x60x6000	€ 140,00/EACH
ADJUSTMENT SUPPORTS/PROPS	€ 62,00/EACH
BUTTERFLY LOCKS FOR BARS	€ 3,00/EACH


M2
EMMEDUE

3) – 4) – 5)
2,5 CM. WOOD DEAL TABLES (400x10x25) € 7,25

6) EMMEDUE single panel, as load bearing element, is finished on site by applying on each side structural shotcrete and sand (spritz beton) with a thickness of about 3,5 cm. The panel will therefore create a double sheet of reinforced concrete with a core of expanded polystyrene. This spritz beton is composed of inerts with a particle size between 0 and 6 mm and, once the seasoning is finished, it will have a characteristic resistance of at least 25MPa. The fresh mixture will have a plastic consistency S2 (adjustment measured with the Abrams cone inferior to 5 cm) so that it can set on the support without falling on the ground.
For each cubic meter of mixture, the indicative quantity of each material composing the spritz beton will be the following:

Cement	350 kg
Inerts	1600 kg
Water	160 litres

The quantity of water can vary according to the specific humidity of the inert; therefore the parameter that must be kept constant is the malleability, to be kept as above indicated.

Volume ratio between cement and sand have to be 1:4
Weight ratio between water and cement = 0.52

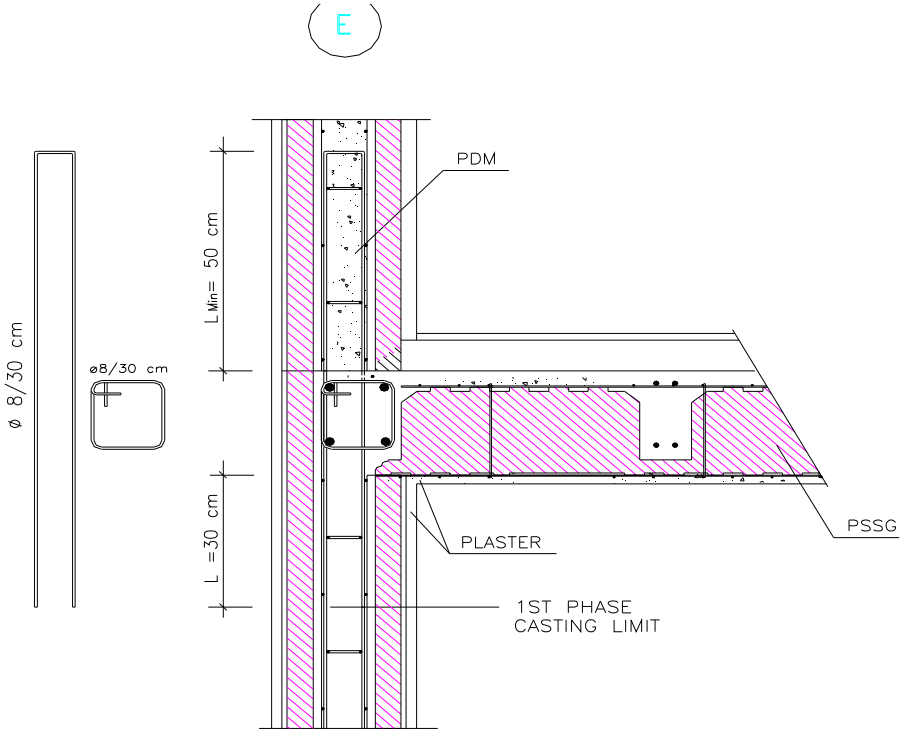
Possible malleability problems must be solved without adding water, but rather by using superfluidifying additives dosed according to the supplier's specifications.
The percentage in weight of the higher size fraction of the inerts (made up of sand and crushed stone) must not be superior to 10%.
The inerts will be appropriately washed, and must be without clay or organic substances. Sea sand
must not be used, since its use jeopardises the spritz beton durability.
The creation of shrinkage cracking can be avoided also by adding polypropylene fibres to the mixture (in quantity of about 1 kg each m^3)

7) The double panel is finished on site with a concrete casting between the two polystyrene sheets. This concrete, which will be the load-bearing element together with the internal reinforcement, must have a Rck not inferior to 25 MPa, the inert particle size must not be superior to 15mm and must have a good lavorability (slump S5).

Volume ratio between cement and inerts have to be cement:sand:inerts = 1:2:3
Weight ratio between water and cement = 0.52

The stairs panels are shaped so as to create internal joist elements to be finished on site with fresh concrete and additional steel reinforcement according to calculations. This concrete must have a Rck not inferior to 25 MPa, the inert particle size must not be superior to 15mm and must have a good lavorability (slump S5).
The same kind of concrete used for the landing.

10)
Usually, the level of casting does not reach the panel top plate but is about 30cm lower to dislocate the reinforcemet rods from the panel on the next level. The filling will be complete at the same time as the floor casting.



11) – 12)
WE DO NOT UNDERSTAND WHAT YOU REFER TO. PLEASE SEND US A PICTURE FOR A BETTER UNDERSTANDING