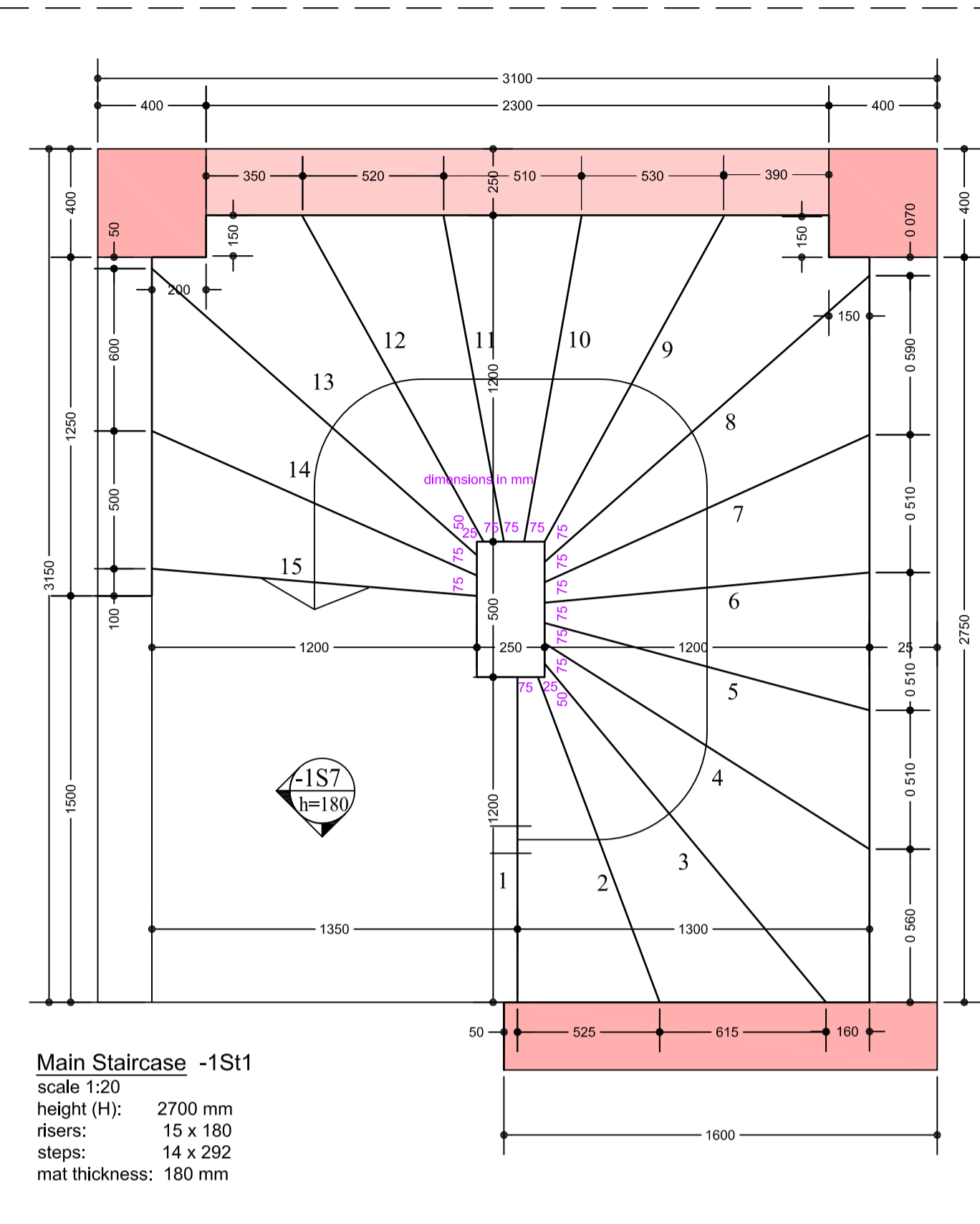
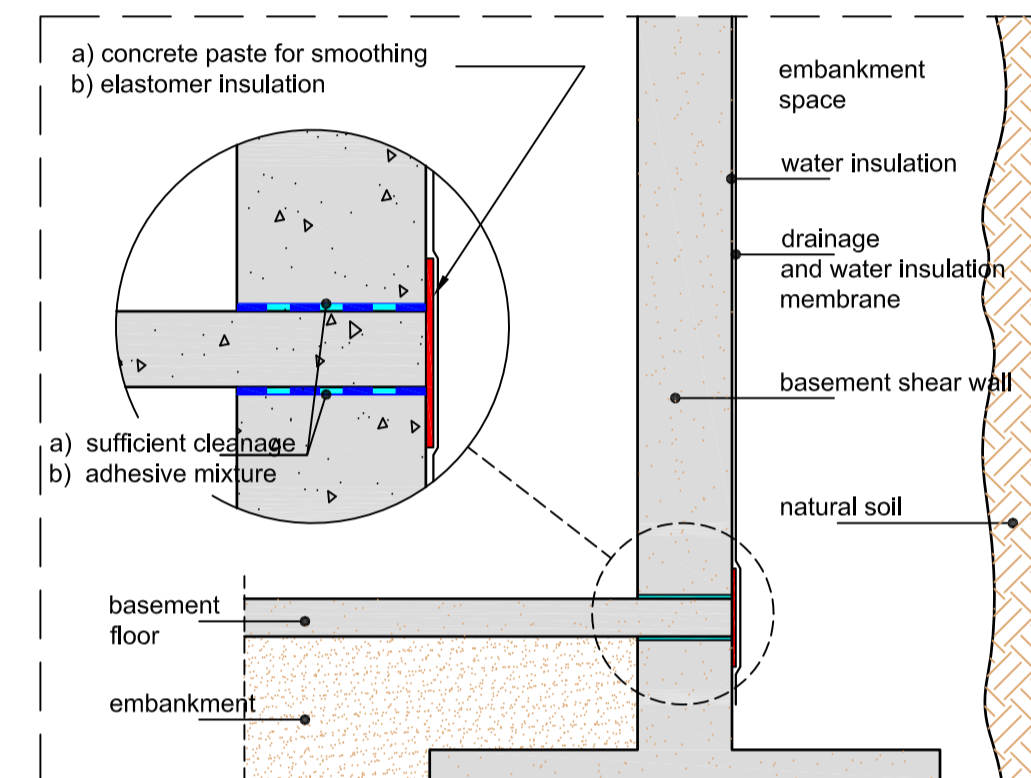


Water insulation detail of basement shear walls scales 1:20, 1:10



Main Staircase -1S11 scale 1:20  
height (H): 2700 mm  
risers: 15 x 180 mm  
steps: 14 x 292 mm  
mat thickness: 180 mm

CONCRETE SPECIMENS ACQUISITION INSTRUCTION (According to C.T.R. ORDER 315B/15-4-97)

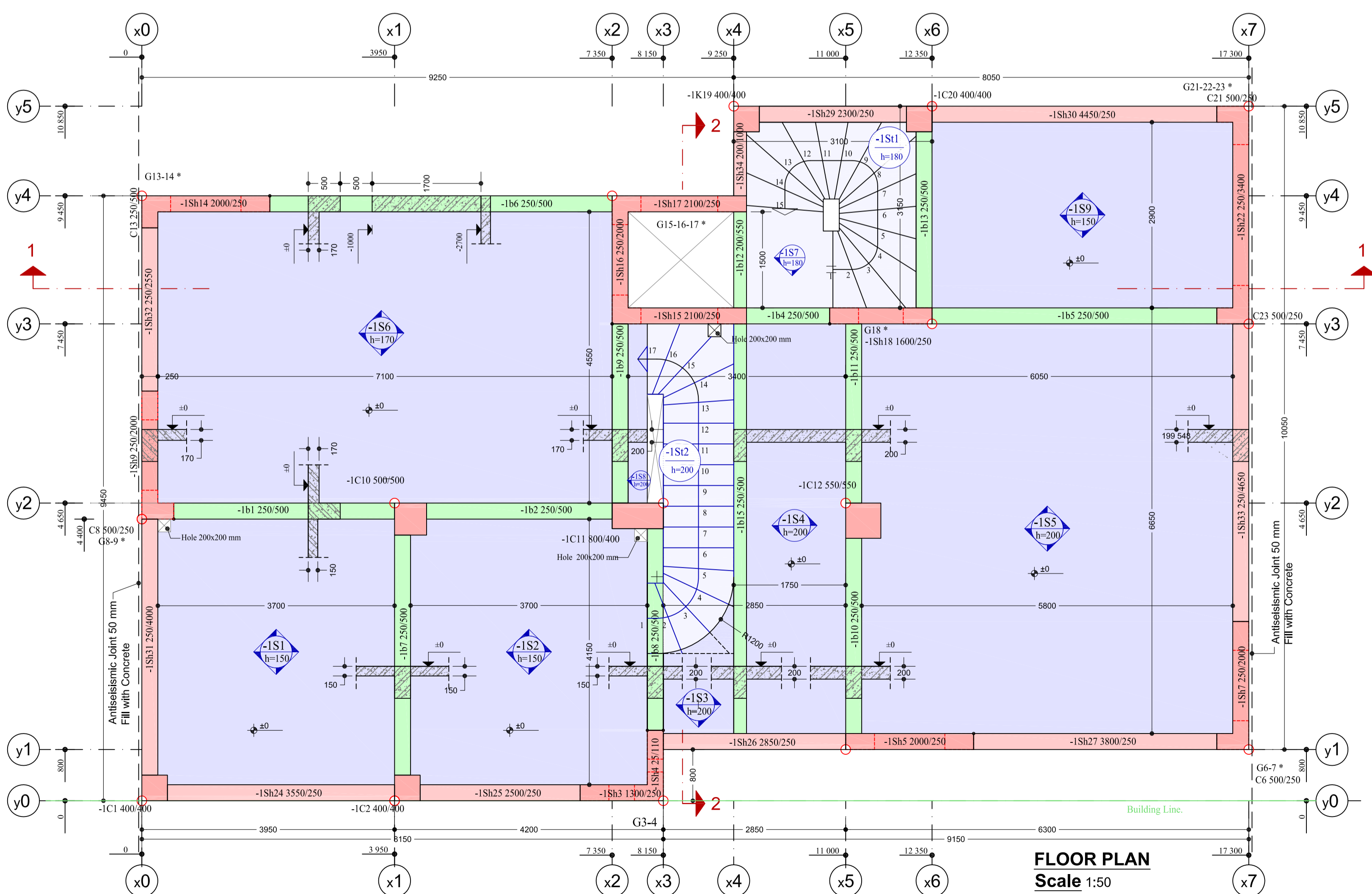
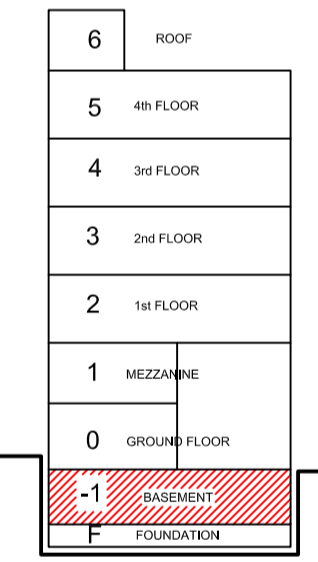
- 6 cubic specimens should be taken in every concreting phase
- The acquisition of the specimens is the responsibility of the contractor and the owner to whom this order is addressed to.
- The specimens should be taken from the moulds 20 to 32 hours after their acquisition and must be immediately transferred to the certified laboratory.
- The owner and the supervising engineer must be notified about the testing results.

COMMENTS

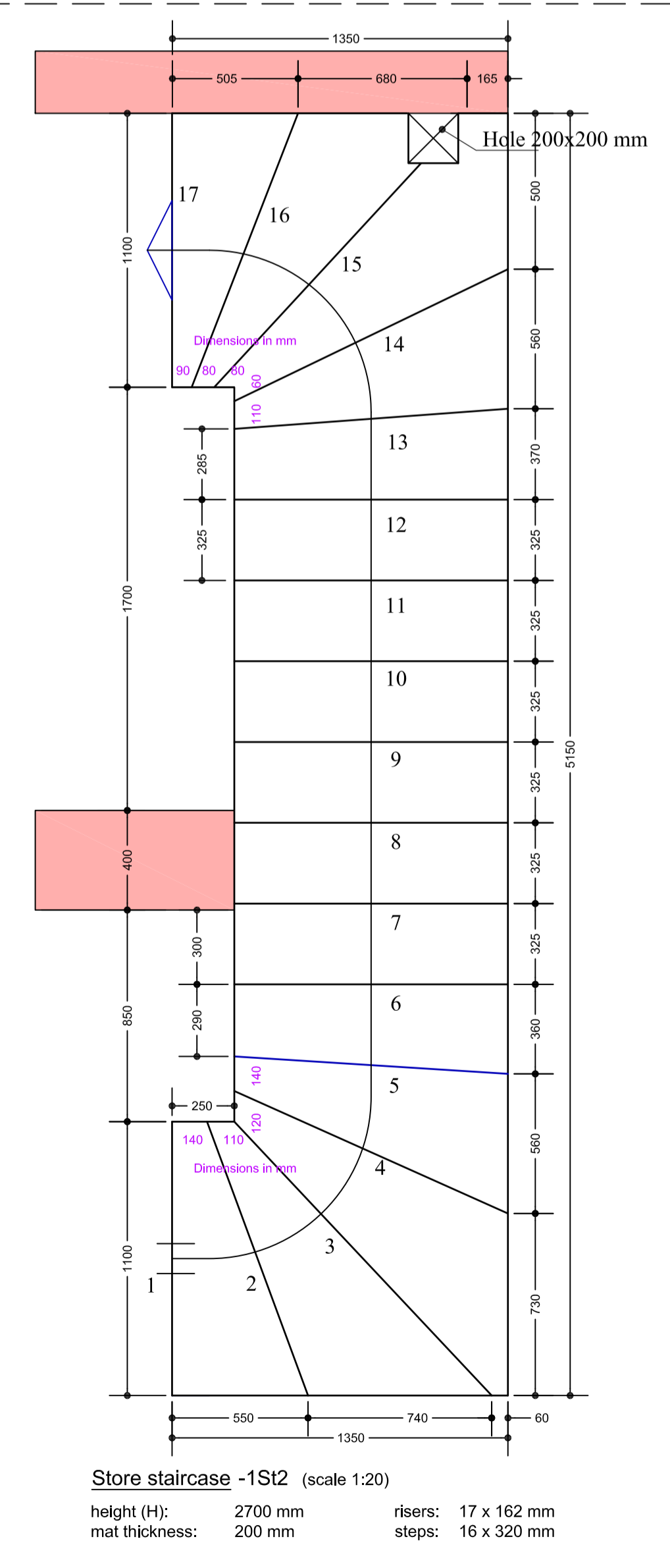
- The dismantling of all side formworks of beams, columns, slabs and shear walls must be conducted after at least 48 hours from their placement. In any case, the formworks should only be dismantled with the approval of the supervising engineer.
- The contractor, the possible super contractors and the project manager ought to be sufficiently informed about the approved from the corresponding authority Health and Safety plan, prior to the beginning of construction works and must follow all safety instructions described in the plan. Furthermore, it is their responsibility to inform all personnel about their obligations and rights according to the Health and Safety regulations and insure the proper implementation of the regulations.

QUANTITIES ESTIMATION

Concrete C30/37 of columns:	40,5 m <sup>3</sup>
Concrete C30/37 of beams - slabs:	34,0 m <sup>3</sup>
Concrete C30/37 of stairs:	4,1 m <sup>3</sup>
Columns' formwork:	326 m <sup>2</sup>
Beams' - Slabs' formwork:	212 m <sup>2</sup>
Stairs' formwork:	30 m <sup>2</sup>
Columns:Rebars steel	4.353 kg
Stirrups steel	1.229 kg
Beams:Rebars steel	437 kg
Stirrups steel	192 kg
Slabs: Rebars steel	750 kg



FLOOR PLAN Scale 1:50



Store staircase -1S12 (scale 1:20)  
height (H): 2700 mm  
mat thickness: 200 mm  
risers: 17 x 162 mm  
steps: 16 x 320 mm

employer:	EARTHQUAKE RESISTANT BUILDINGS
project:	Drawings sample
location:	VOLUME A'
engineers:	The Author's Team

Project type:	STATIC AND DYNAMIC ANALYSIS	date:	03/06/10
Project phase:	DETAILING	Drawing number:	C.30
Drawing subject:	BASEMENT CEILING FORMWORK level "-1": ±0.000		
Scale:	1:50 1:20 1:10	Project name:	bkGR
		Revision code:	

ARCHITECTURAL PROJECT:	Stamp, signature:
STATIC ANALYSIS PROJECT:	
ELECTRICAL-MECHANICAL PROJECT:	