



PORCELAIN GRES TILE.  $S = 1 \text{ cm. } \lambda = 1 \text{ W/mK}$   
 MORTAR COMPOSED OF CEMENT AND SAND 1:8  $S = 4,5 \text{ cm. } \lambda = 1 \text{ W/mK}$   
 REINFORCED CONCRETE.  $S = 4 \text{ cm. } \lambda = 1,16 \text{ W/mK}$   
 PE-X GIACOTHERM PIPE  $\varnothing = 15 \text{ cm}$   
 VAPOR BARRIER IN POLYSTYRENE TO HOLD THE PIPES  $S = 0,4 \text{ cm } \lambda = 0,16 \text{ W/mK}$

RIGID FOAM INSULATION OF XPS. (EXTRUDED POLYSTYRENE) WHICH HAS A CLOSED CELL STRUCTURE.  $S = 3 \text{ cm. } \lambda = 0,035 \text{ W/mK}$

MORTAR COMPOSED OF CEMENT AND SAND 1:8  $S = 4 \text{ cm. } \lambda = 1 \text{ W/mK}$   
 RIGID FOAM INSULATION OF XPS. (EXTRUDED POLYSTYRENE) WHICH HAS A CLOSED CELL STRUCTURE.  $S = 12 \text{ cm. } \lambda = 0,035 \text{ W/mK}$

WAFFLE SLAB OF REINFORCED CONCRETE  $S = 30 \text{ cm. } \lambda = 1,16 \text{ W/mK}$

$U = 0,21 < 0,33 \text{ W/m}^2 \text{ K}$

**01 FLOOR TYPE 7**  
 A-1.6 SCALE: 1/5

MARBLE TILE.  $S = 2,5 \text{ cm. } \lambda = 3,5 \text{ W/mK}$   
 MORTAR COMPOSED OF CEMENT AND SAND 1:8  $S = 3 \text{ cm. } \lambda = 1,16 \text{ W/mK}$   
 REINFORCED CONCRETE.  $S = 4 \text{ cm. } \lambda = 1,16 \text{ W/mK}$   
 PE-X GIACOTHERM PIPE  $\varnothing = 15 \text{ cm}$   
 VAPOR BARRIER IN POLYSTYRENE TO HOLD THE PIPES  $S = 0,4 \text{ cm } \lambda = 0,16 \text{ W/mK}$

RIGID FOAM INSULATION OF XPS. (EXTRUDED POLYSTYRENE) WHICH HAS A CLOSED CELL STRUCTURE.  $S = 3 \text{ cm. } \lambda = 0,035 \text{ W/mK}$

MORTAR COMPOSED OF CEMENT AND SAND 1:8  $S = 4 \text{ cm. } \lambda = 1 \text{ W/mK}$   
 RIGID FOAM INSULATION OF XPS. (EXTRUDED POLYSTYRENE) WHICH HAS A CLOSED CELL STRUCTURE.  $S = 12 \text{ cm. } \lambda = 0,035 \text{ W/mK}$

WAFFLE SLAB OF REINFORCED CONCRETE  $S = 30 \text{ cm. } \lambda = 1,16 \text{ W/mK}$

$U = 0,21 < 0,33 \text{ W/m}^2 \text{ K}$

**02 FLOOR TYPE 8**  
 A-1.6 SCALE: 1/5

EXPANDED POLYESTHYRENE.  $S = 2 \text{ cm.}$

**GROUP 6**

COURSE:  
 TECHNOLOGICAL DESIGN

SCHOOL:  
 POLITECNICO MILANO  
 SEMESTER: SPRING 2011

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 LECCO, LOMBARDIA  
 ITALIA

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 FLOOR TYPES & COMPOSITION

SHEET No.:  
 A-1.6

FILE NAME:  
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