

PROGETTO DI UN EDIFICIO PER CIVILE ABITAZIONE IN ZONA SISMICA

DISTINTA FERRI TRAVETTI

Data:
23.07.2018

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Materiali utilizzati:

- Calcestruzzo Classe C25/30
 - $R_{ck} = 30 \text{ N/mm}^2$
 - $f_{ck} = 24.9 \text{ N/mm}^2$
 - $f_{cd} = 14.11 \text{ N/mm}^2$
 - $f_{ctm} = 2.56 \text{ N/mm}^2$
 - $f_{cm} = 32.9 \text{ N/mm}^2$
 - $E_{cm} = 31447.16 \text{ N/mm}^2$
- Barre in Acciaio di tipo B450C
 - $f_y = 450 \text{ N/mm}^2$
 - $f_{yd} = 391.3 \text{ N/mm}^2$
 - $E_s = 210000 \text{ N/mm}^2$

Technical drawing of a beam with reinforcement details. The beam is divided into sections A, B, C, D, and E. Reinforcement bars are labeled with arrows and letters (A, B, C, D, E, F, G, H, I, L, L'). Dimensions are given in millimeters (mm) and meters (m).

Reinforcement details and dimensions:

- Section A: $\Phi 14$ L 180
- Section B: $\Phi 14$ L 640
- Section C: $\Phi 10$ L 160
- Section D: $\Phi 10$ L 180
- Section E: $\Phi 14$ L 160
- Section F: $\Phi 14$ L 740
- Section G: $\Phi 10$ L 600
- Section H: $\Phi 14$ L 535
- Section I: $\Phi 10$ L 835

Dimensions and annotations:

- 80
- 11

Structural drawing of a reinforced concrete slab, showing a top view and a cross-section.

Top View:

- Overall dimensions: 272 (width) and 910 (length).
- Reinforcement bars are indicated by arrows and labels:
 - Top bars: A', B', C', D', E' (pointing right) and A, B, C, D, E (pointing left).

Cross-Section:

- Slab thickness: 11.
- Reinforcement bars and their lengths:
 - Top bars: ② 2Φ12 L 260, ② 2Φ12 L 260, ② 1Φ8 L 400, ② 1Φ12 L 510.
 - Bottom bars: ② 1Φ8 L 340, ② 1Φ12 L 910.

Figure 1 illustrates the reinforcement details of the beam-column joint. The diagram shows a cross-section of the joint with reinforcement bars labeled A, A', B, and B'. The joint width is 170 mm. The beam width is 170 mm. The column width is 170 mm. The reinforcement bars are labeled 1Φ14 L 170, 2Φ10 L 472, and 3Φ14 L 472.

Figure 1 illustrates the reinforcement details of the beam-column joint. The diagram shows a cross-section of a beam-column joint with reinforcement bars labeled A, A', B, B', and A'. The reinforcement is divided into three horizontal sections: the top section contains bars A' and B', the middle section contains bars A and B, and the bottom section contains bars A and A'. The reinforcement is labeled with circled numbers and diameters: 1 Φ14 L 170, 1 Φ10 L 472, and 1 Φ14 L 472.

Technical drawing showing a cross-section of a cable tray assembly. The drawing includes labels for dimensions and components: Ø10, rete elettr. Ø, Ø16, 5, 10, sup, and arm.

Technical drawing of a reinforced concrete slab cross-section. The drawing shows a central section of a slab with a grid of reinforcement bars. Labels include: Ø10 (top and bottom reinforcement), Ø16 (bottom reinforcement), rete electr. Ø5 (electrical mesh), supporto armature Ø8 (reinforcement support), and Ø10 (bottom reinforcement). Dimensions are given in millimeters: 16, 4, 20, 5, and 10.

Technical drawing of a cable tray assembly showing a cross-section. The drawing includes labels for various components: Ø14 (top and bottom reinforcement), rete elettr. Ø5 (electrical mesh), supporto armature Ø8 (armature support), Ø10 (bottom reinforcement), Ø14 (bottom reinforcement), and Ø8 (armature support). Dimensions 16 and 20 are indicated on the right side.