

Technical drawing of a steel structure, likely a tower or bridge section, showing dimensions and components. The structure is composed of vertical columns and diagonal bracing.

Dimensions:

- Overall width: 176
- Overall height: 340 (divided into three sections of 340, 340, and 90)
- Top section height: 9.90
- Second section height: 6.50
- Third section height: +3.10
- Bottom section height: +1.93

Components and Labels:

- UPN 280 (Universal Profile No. 280)
- HEB 200 (Heavy European Beam No. 200)
- to 600 ø120 (to 600 mm diameter 120 mm)
- to 600 ø150 (to 600 mm diameter 150 mm)
- to 600 ø120 (to 600 mm diameter 120 mm)
- to 600 ø150 (to 600 mm diameter 150 mm)

The drawing includes various structural details such as bolts, welds, and connections between the beams and columns.

PROSPETTO



CARATTERISTICHE MATERIALI

CALCESTRUZZO FONDAZIONI

- CONGLOMERATO CEMENTIZIO CLASSE: C30/37 (Rok 37 N/mm²=370 Kg/cm²)
- CLASSE DI ESPOSIZIONE AMBIENTALE: XC2 (fondazioni) SECONDO EN 206-1
- COPRIFERRO MINIMO: 35 mm (platea di fondazione)
- DIMENSIONE MASSIMA DELL'AGGREGATO Dmax= 30 mm
- RAPPORTO ACQUA/CEMENTO MASSIMO 0,60 (classe di esposizione XC2)
- DA MISURARSI SECONDO UNI 206-1 CON PRELIEVI EFFETTUATI IMMEDIATAMENTE PRIMA DEL GETTO
- CEMENTO TIPO II-III-IV, UNI 197-1 CLASSE 42,5 - DOSAGGIO MINIMO 350 kg/m³
- CONSISTENZA S4, SECONDO EN 206-1

- MALTA STRUTTURALE CLASSE R4 secondo EN 1504-3 - RESISTENZA A COMPRESSIONE dopo 28 gg ≥ 45 MPa

- TRAFILATO IN BARRE TONDE $6 \leq \varnothing \leq 40$ AD ADERENZA MIGLIORATA
- TENSIONE CARATTERISTICA DI SNERVAMENTO $F_{yk} \geq 450$ N/mm²
- TENSIONE CARATTERISTICA DI ROTTURA $F_{tk} \geq 540$ N/mm²
- ALLUNGAMENTO $(A_{gt})_k \geq 7.5\%$

- ACCIAIO S235 e S275 CONFORME UNI EN 10025 5 UNI EN 10219-1 (PROFILI TIPO HEA-HEB-TUBULARI)
- CARICO A ROTTURA $f_k \geq 360 \text{ N/mm}^2$ (per acciaio S235) - $f_k \geq 430 \text{ N/mm}^2$ (per acciaio S275)
- CARICO DI SNERVAMENTO $f_{yk} \geq 235 \text{ N/mm}^2$ (per acciaio S235) - $f_{yk} \geq 275 \text{ N/mm}^2$ (per acciaio S275)
- MODULO ELASTICO $E = 210000 \text{ N/mm}^2$
- BULLONI CON VITI CLASSE DI RESISTENZA 8.8 - DADO CLASSE DI RESISTENZA 8 (6S)
- SALDATURA A CORDONE D'ANGOLO DIMENSIONE 10 mm SPESSORE MINIMO (DOVE NON SPECIFICAMENTE INDICATO) SECONDO UNI1532 E CNR1001/188

- ACCIAIO S355 CONFORME UNI EN 10025 E UNI EN 10219-1 (PROFILI TUBOLARI)
- CARICO A ROTTURA $f_{tk} \geq 510 \text{ N/mm}^2$
- CARICO DI SNERVAMENTO $f_{yk} \geq 355 \text{ N/mm}^2$
- MODULO ELASTICO $E = 210000 \text{ N/mm}^2$

• MALTA PER MICROPALI - RESISTENZA A COMPRESSIONE dopo 28 gg ≥ 42 MPa

- RESINA EPOSSIDICA CERTIFICATA SECONDO EOTA (ETAG 001 - TR45)

ADEGUAMENTO SISMICO NEI PLESSI
SCOLASTICI SITUATI NEL COMUNE DI
BORDIGHERA "RODARI" IN VIA PASTEUR
E "DE AMICIS-RUFFINI" IN VIA PELLOUX

RAGGRUPPAMENTO TEMPORANEO DI PROFESSIONISTI

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AGGIORNAMENTI				
Numero:	Data:	Descrizione:	Approvazione:	Emissione:

IMPRESA:	PROGETTO ESECUTIVO
OGGETTO TAVOLA: SETTI SISMORESISTENTI NODI SETTO S3b	IDENTIFICATIVO: 10f-STR

PROGETTO
ESECUTIVO

IDENTIFICATIVO:

10f-STR

CONTROVENTI Ø120

sezione

bullone M16

prospetto

bullone M16

Technical drawing showing the connection of a UPN 280 beam to HEB 200 columns. The drawing includes dimensions for the beam height (280 mm), flange width (100 mm), and web thickness (20 mm). The connection plates are labeled "piastra sp. 30 mm".

Technical drawing of a steel beam-to-column connection. The drawing shows a top-down view of a 2x6 Tirafondi M16 - 8.8 UPN 280 bracket. The bracket is connected to a column (colonna Ø120) using Ø60 pins. The connection is reinforced with 30 mm thick plates (piastra sp. 30 mm) and 10 mm thick plates (piastra sp. 10 mm). Dimensions include a total width of 1760 mm, a total height of 700 mm, and various spacing dimensions for bolts and plates. The beam is labeled HEB 200 on both sides. The drawing also shows the connection to the column, with a 10 mm gap (Δ z 10) and a 20 mm offset.

Technical drawing of a square connection plate for a UPN 280 beam. The plate is square with rounded corners and features four circular holes for bolts, each labeled "perno Ø60". The plate is made of 10 mm thick plate (piastra sp. 10 mm) and is secured with 30 mm thick plate (piastra sp. 30 mm) and 30 mm diameter bolts (perno Ø60). The plate is connected to a UPN 280 beam using 2x6 Tirafondi M16 - 8.8 bolts. The drawing includes dimensions for the plate size (468 mm x 468 mm), hole positions (130 mm from corners), and bolt spacing (300 mm). The plate is labeled "controvento Ø120" and "UPN 280".

Technical drawing of a steel truss structure (UPN 280) showing dimensions and components. The drawing includes labels for 'controvento Ø120', 'perno Ø60', 'piastra sp. 30 mm', '2x6 Tirafondi M16 - 8.8', 'UPN 280', 'piastra sp. 10 mm', 'HEB 200', and 'z10'. Dimensions are provided in millimeters (mm) and centimeters (cm).

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Technical drawing of a HEB 200 beam with 16 bolts M20 x 8.6. The drawing shows a side view of the beam with 16 bolts arranged in two vertical columns of 8 bolts each. Dimensions are provided in millimeters: total height 216, flange thickness 150, web thickness 130, and bolt spacing. The bolt spacing from the top flange is 40, 112, 112, 112, 112, 112, 112, and 40. The total height of the bolt circle is 592. The beam is labeled 'HEB 200' and '16 Boulons M20 - 8.6'.