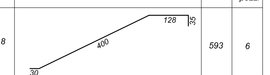
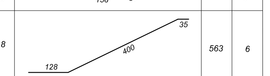
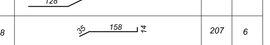
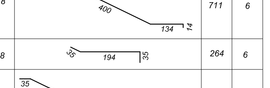
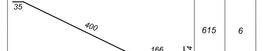
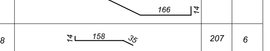
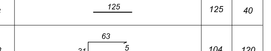
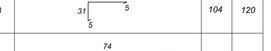
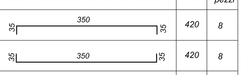
Pos.	Ø	DISTINTA DEI FERRI (soletta e pianerottoli)	Lungh.	n. pezzi
1	18		593	6
2	18		193	6
3	18		563	6
4	18		207	6
5	18		711	6
6	18		264	6
7	18		615	6
8	18		207	6
9 sup.	14		318	5
9 inf.	14		318	5
10	8		125	40
Spille	8		104	120
Staffe	8		197	124

Pos.	Ø	DISTINTA DEI FERRI (travi di bordo)	Lungh.	n. pezzi
1	18		420	8
2	18		420	8
3	18		350	8
Staffe	12		144	88

Acciaio per carpenteria metallica

- Acciaio tipo Fe510 (S355) conforme alla norma UNI EN 10025
- Tensione caratteristica di snervamento fyk=3550 kg/cm²
- Tensione caratteristica di rottura frk=5100 kg/cm²
- Modulo di elasticità di Young E=2100000 kg/cm²

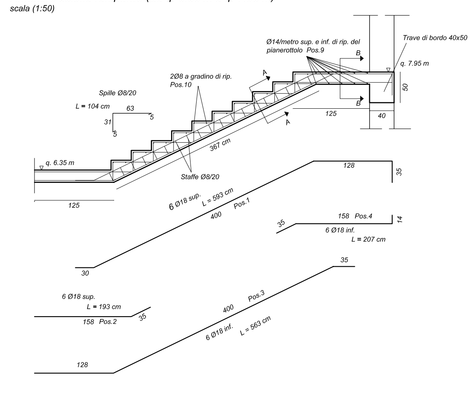
Acciaio per armature

- Acciaio tipo B450C ad aderenza migliorata (corrispondente al tipo FeB44k)
- Tensione caratteristica di snervamento fyk=4500 kg/cm²
- Tensione caratteristica di rottura frk=5400 kg/cm²
- Tensione di calcolo agli stati limite fyd=3739 kg/cm²

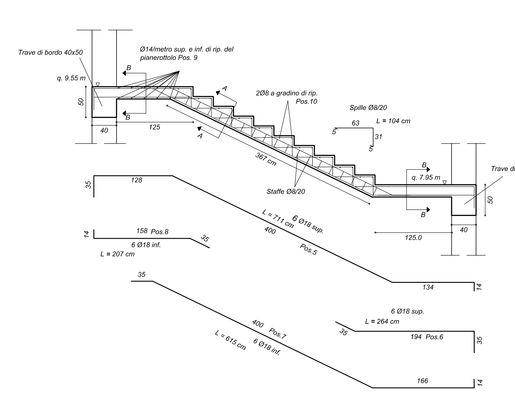
Calcestruzzo

- Classe di resistenza C25/30
- Resistenza caratteristica cubica Rck=300 kg/cm²
- Resistenza caratteristica cilindrica fck=250 kg/cm²
- Modulo di elasticità di Young E=312200 kg/cm²
- Resistenza di calcolo a compressione semplice fcd=141.6 kg/cm²
- Resistenza di calcolo a trazione fctd=12.37 kg/cm²

Armature soletta rampante (da q. 6.35 m a q. 7.95 m)
scala (1:50)



Armature soletta rampante (da q. 7.95 m a q. 9.55 m)
scala (1:50)



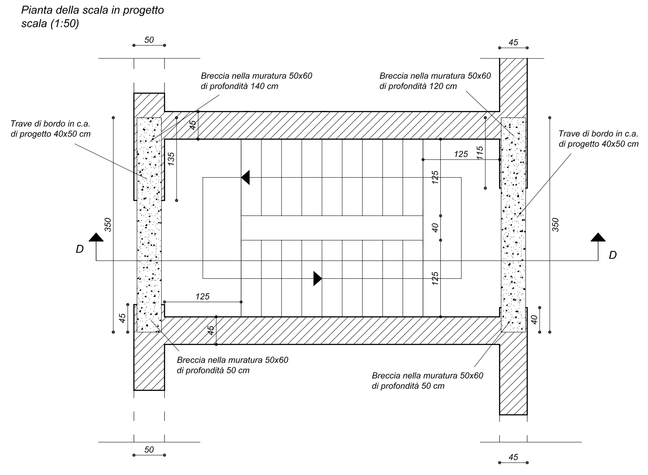
COMPUTO DEI MATERIALI

Barre di armatura
Ø18 L.tot=296,38 m peso=591,74 kg
Ø14 L.tot=31,80 m peso=38,41 kg
Ø8 L.tot=50,00 m peso=19,71 kg
Spille
Ø8 L.tot=124,80 m peso=49,22 kg
Staffe
Ø8 L.tot=244,28 m peso=96,34 kg
Staffe
Ø12 L.tot=126,72 m peso=112,45 kg

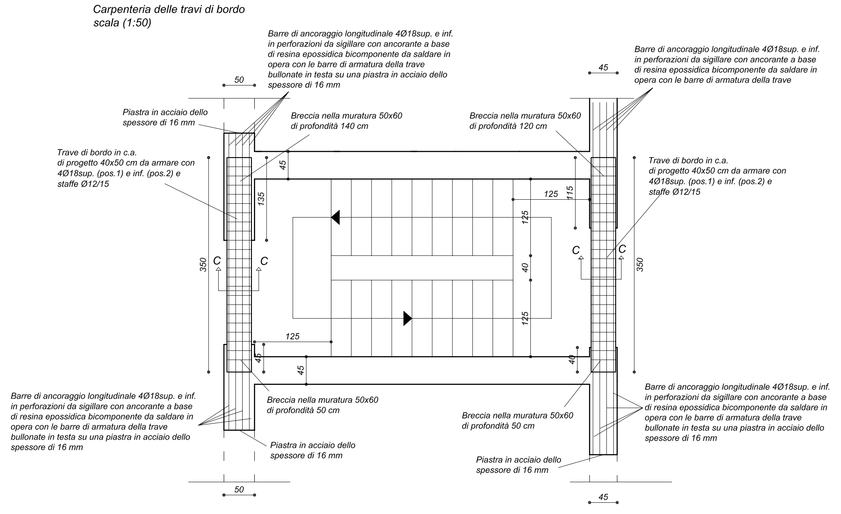
Totale acciaio peso totale=907,87 kg

Calcestruzzo
Travi di bordo 1,40 mc
Pianerottoli 1,45 mc
Rampe 1,835 mc
Totale Calcestruzzo 4,685 mc

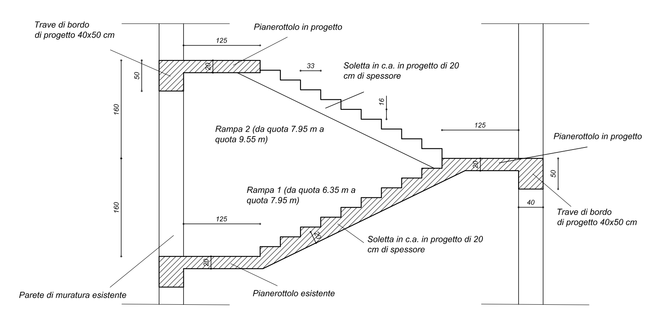
Pianta della scala in progetto
scala (1:50)



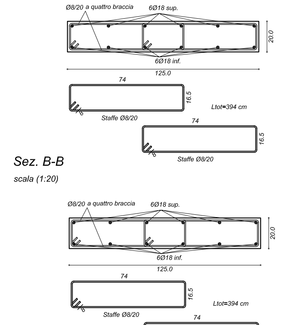
Carpenteria delle travi di bordo
scala (1:50)



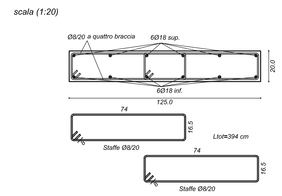
Sez. D-D
scala (1:50)



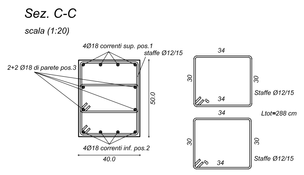
Sez. A-A
scala (1:20)



Sez. B-B
scala (1:20)



Sez. C-C
scala (1:20)



UNIVERSITA' DEGLI STUDI DI MESSINA
AREA SERVIZI TECNICI

Progetto esecutivo di un piano intermedio
da realizzarsi nell'edificio "C" del Plesso Centrale Universitario

PROGETTO ESECUTIVO	Elaborato	STR.	07		Scala 1:50
VALIDAZIONE	Stato di progetto				
AGGIORNAMENTI: Luglio 2009	***Esecutivi della scala in c.a.***				
MESSINA: Luglio 2009					
Area Servizi Tecnici *Progettista* *dott. ing. Silvio Lacquaniti* *Responsabile Unico del Procedimento* *dott. ing. Francesco Oteri*					
Area Servizi Tecnici *via Consolato del Mare, 41 is. 317-98122 Messina*					