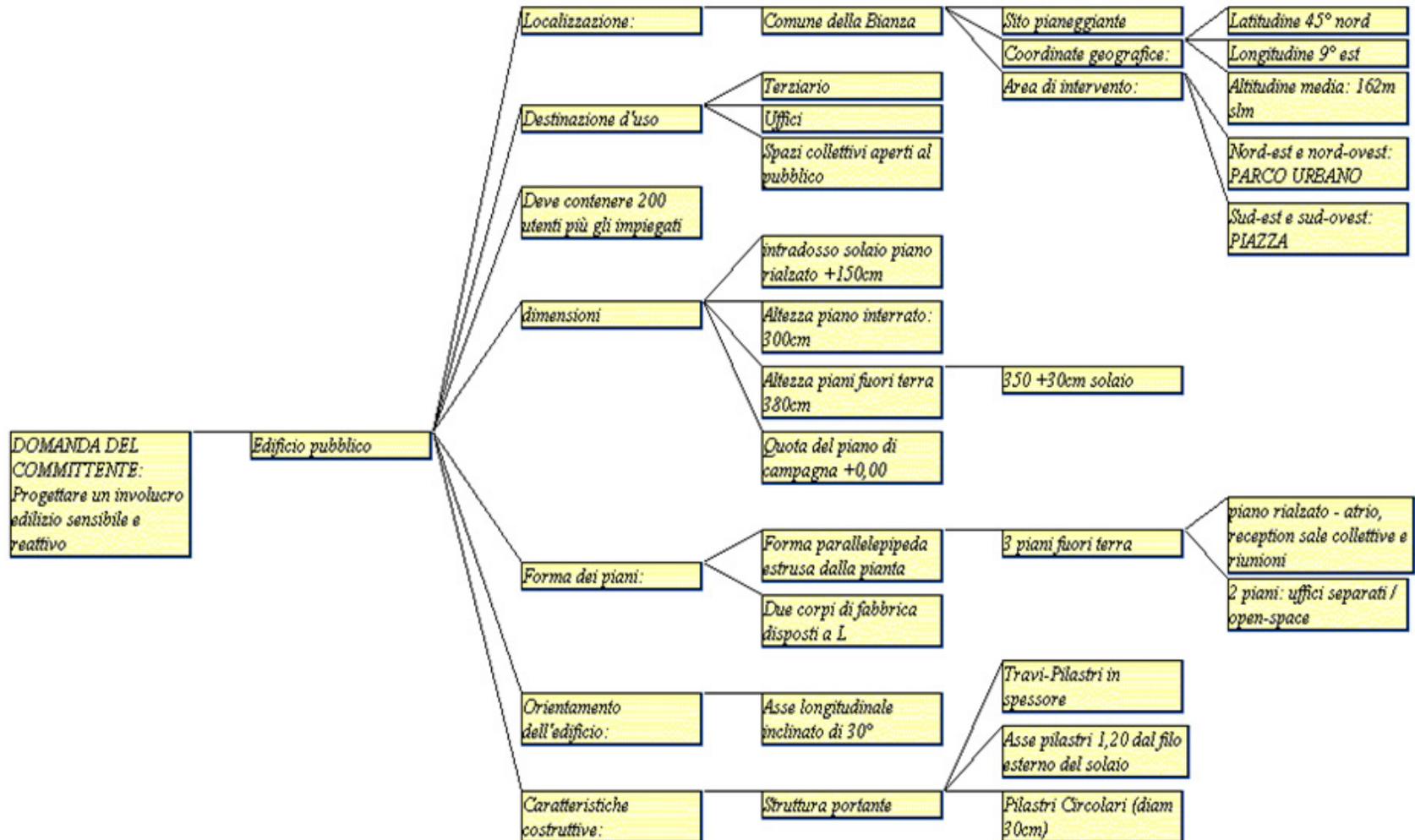
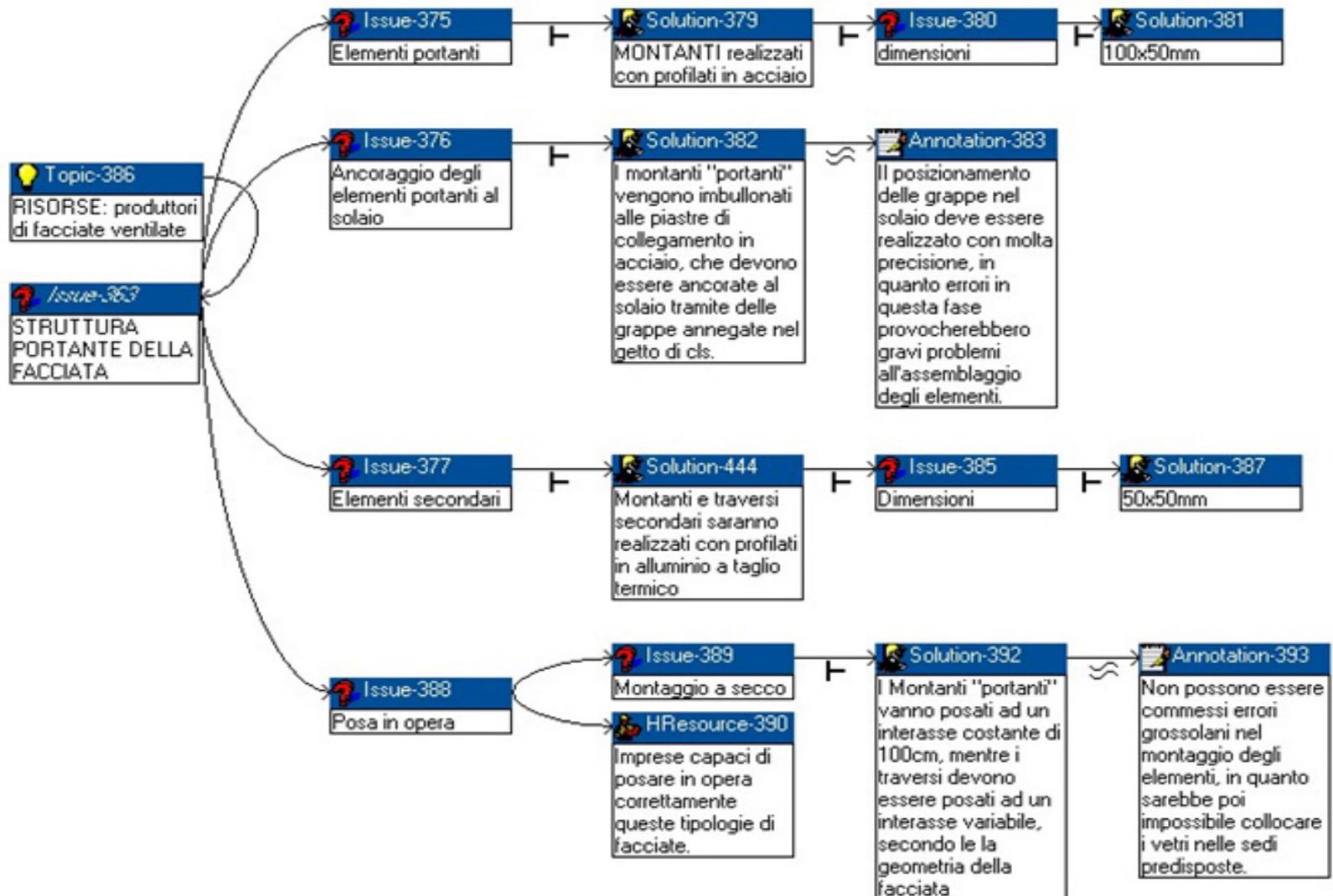
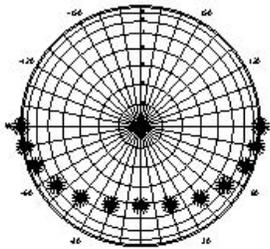


Cours Expérimental: Topic

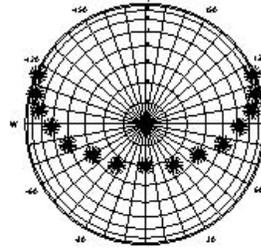


Cours traditionnel

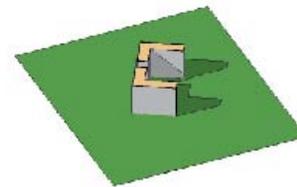
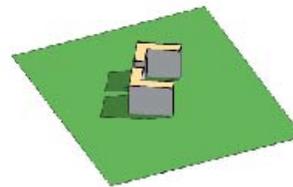
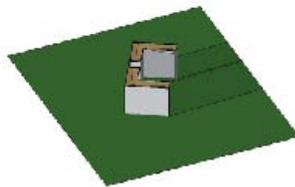
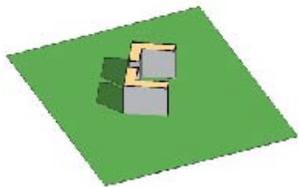
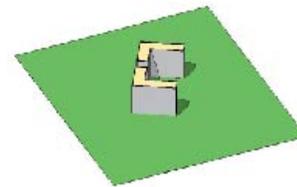
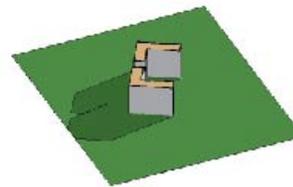
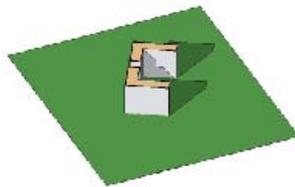
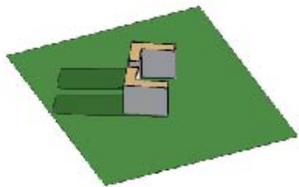
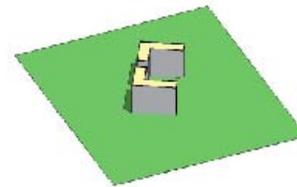
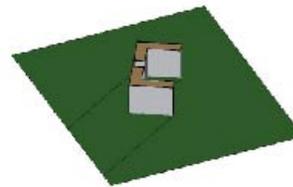
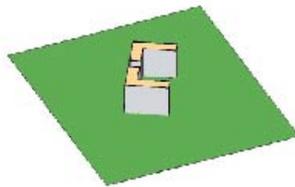
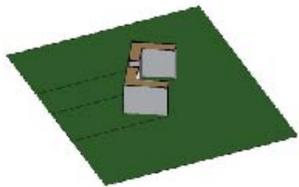




21 MAR - 21 SET



21 GIU



POLITECNICO
DI MILANO

FACOLTA' DI
ARCHITETTURA
LEONARDO

A. A. 2002-2003

CORSO INTEGRATO
DI PROGETTAZIONE
ASSISTITA

PROF.
EZIO ARLATI

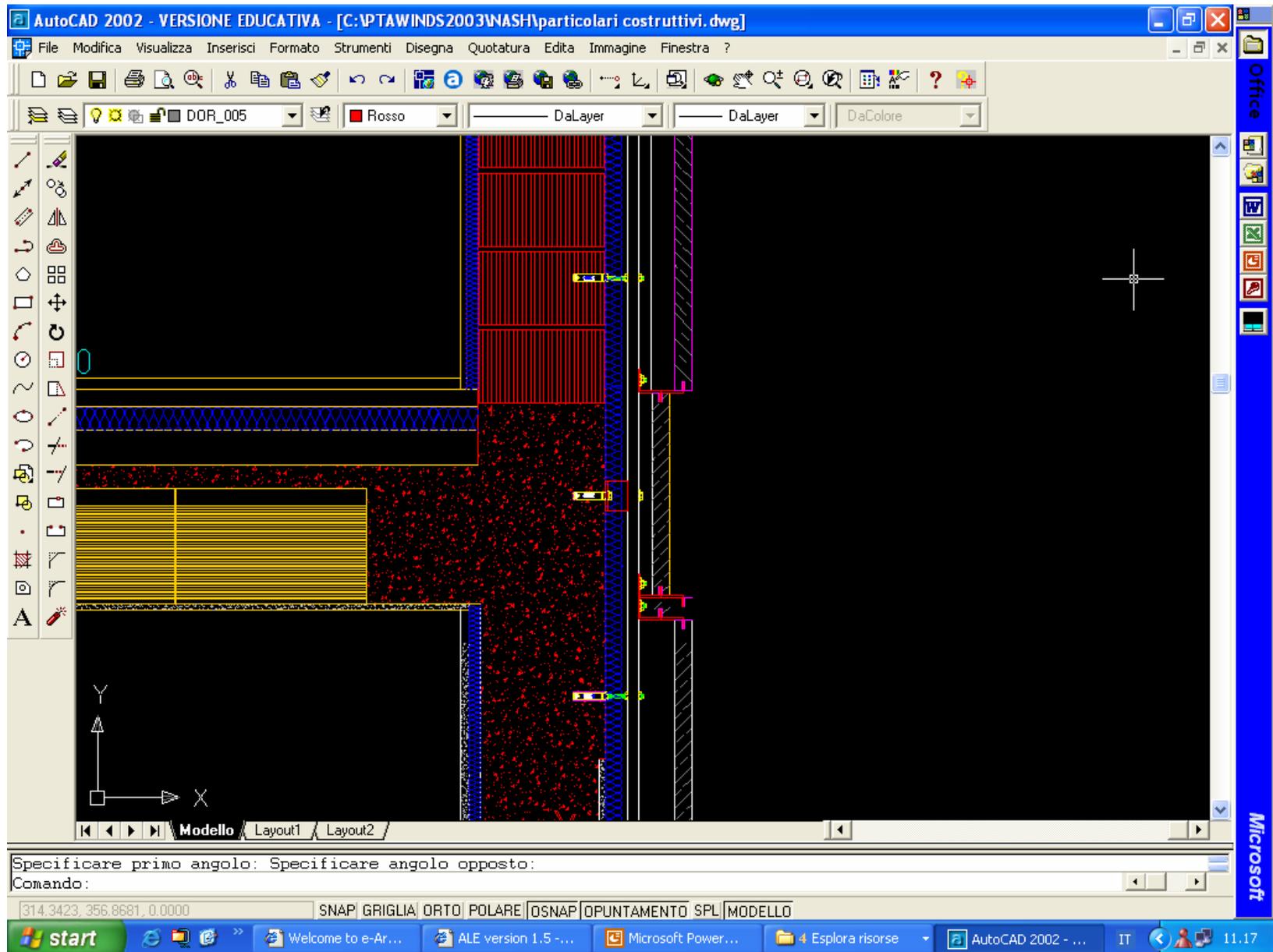
ASTORRI LUCA
189507
GARIBALDO LUCA F.
188880

STUDIO SOLARE

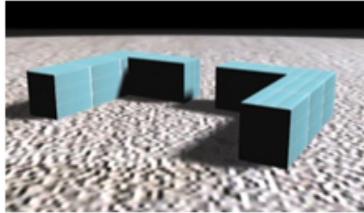
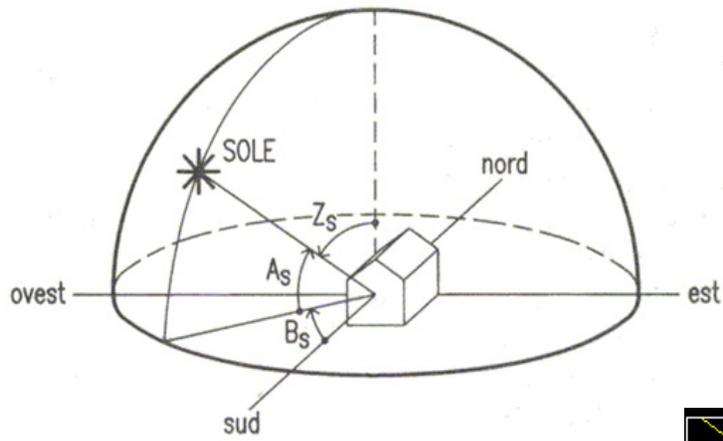
TAVOLA

1

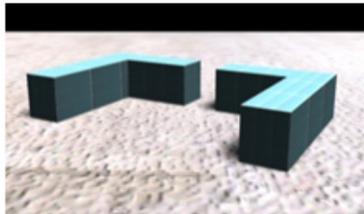
Cours traditionnel



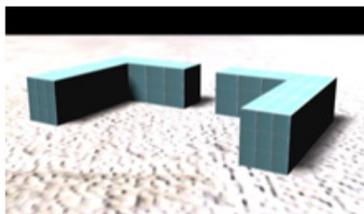
Cours traditionnel



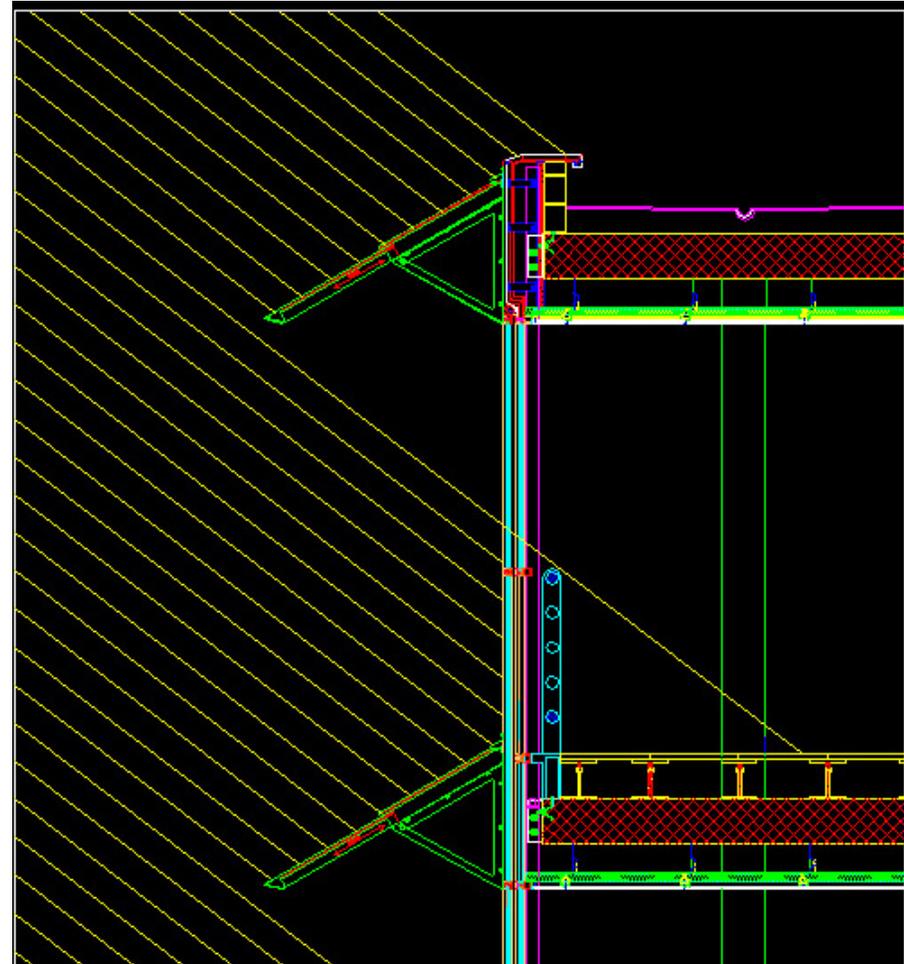
ORE 8

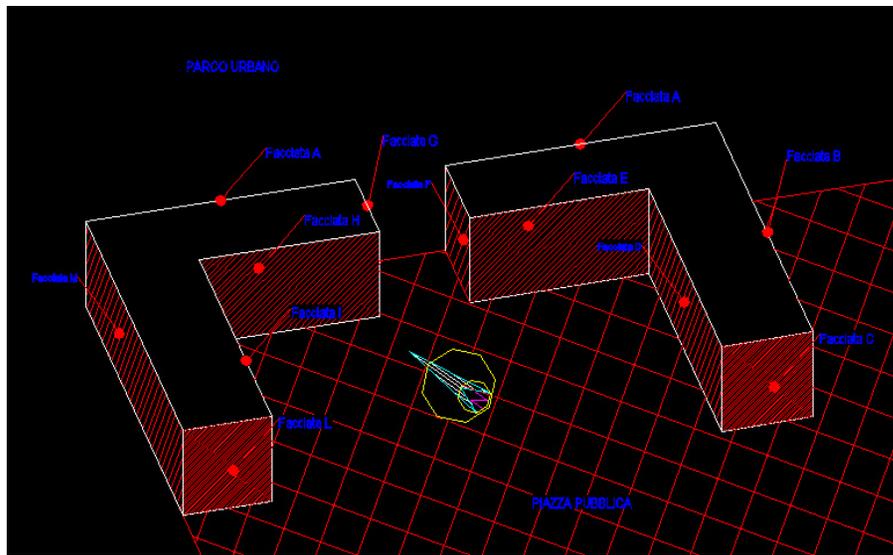


ORE 11



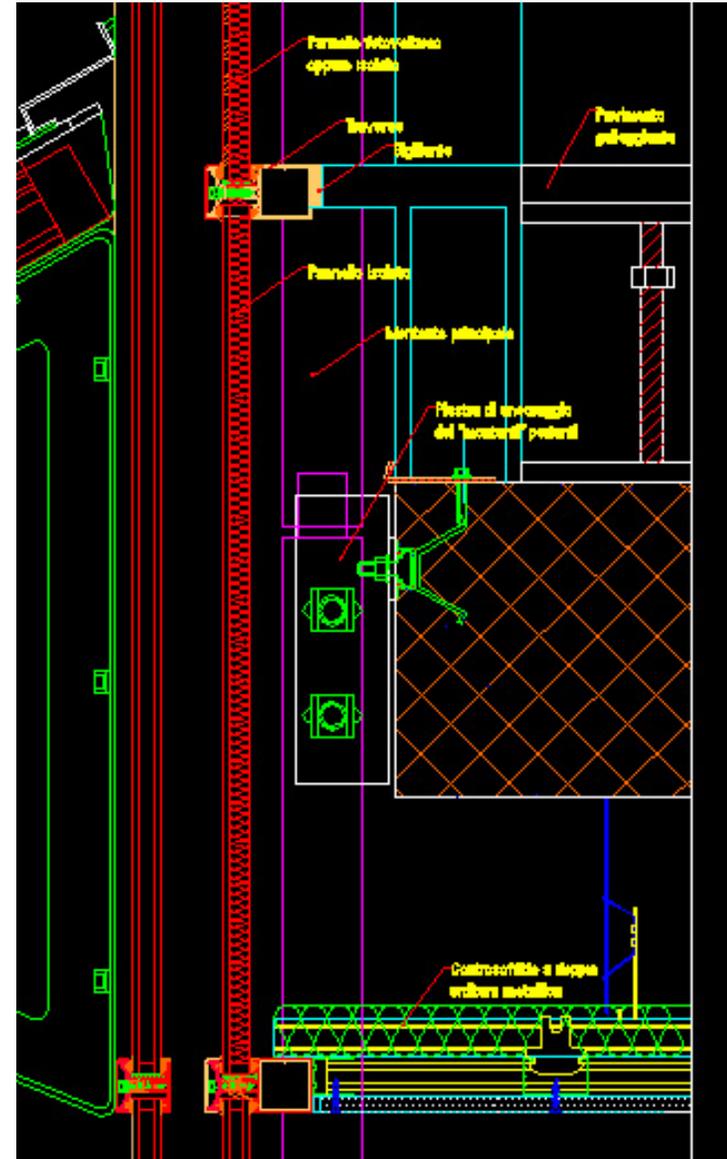
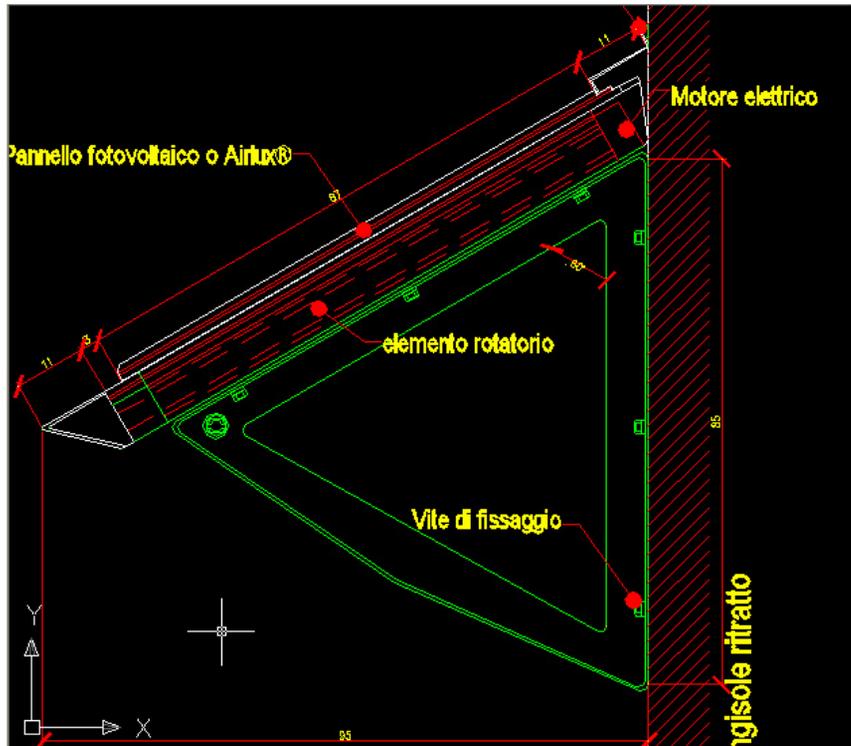
ORE 14

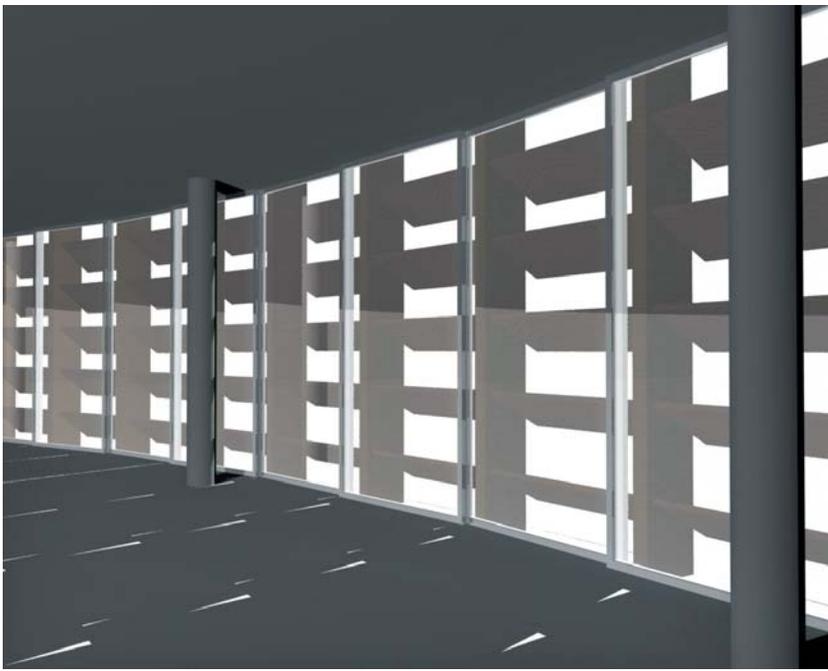




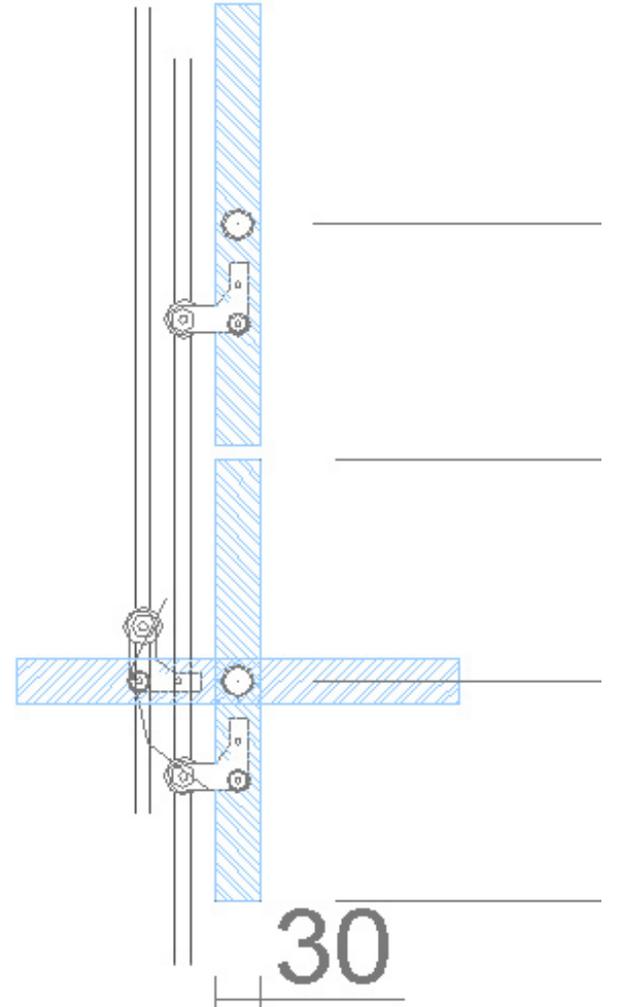
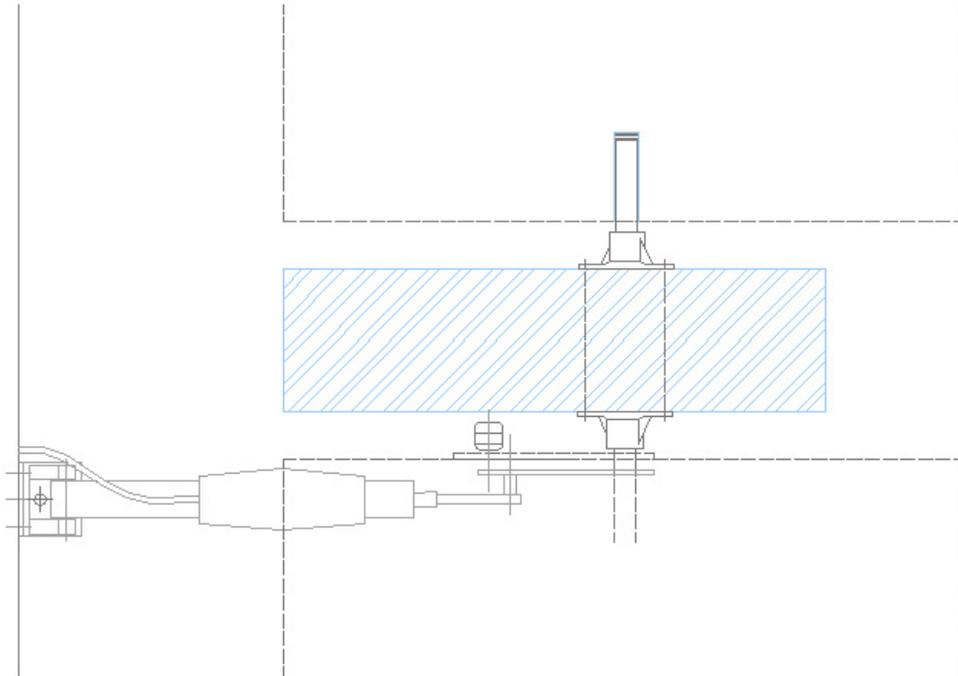
Cours traditionnel

Thème de projet assigné

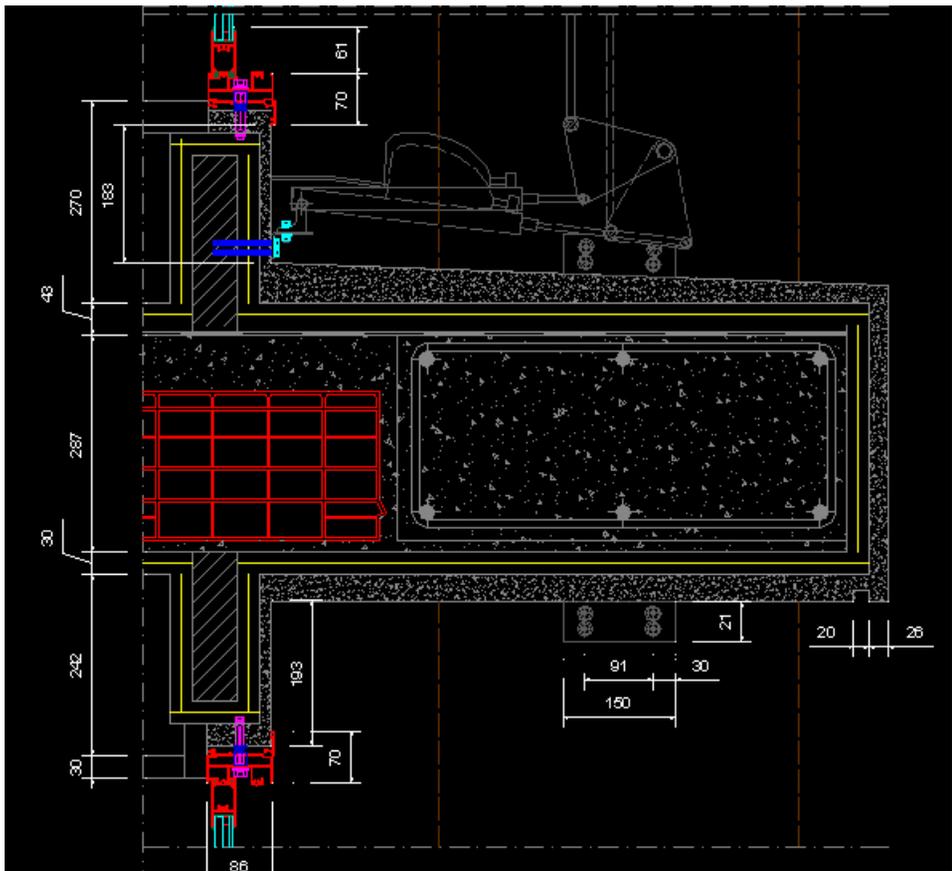
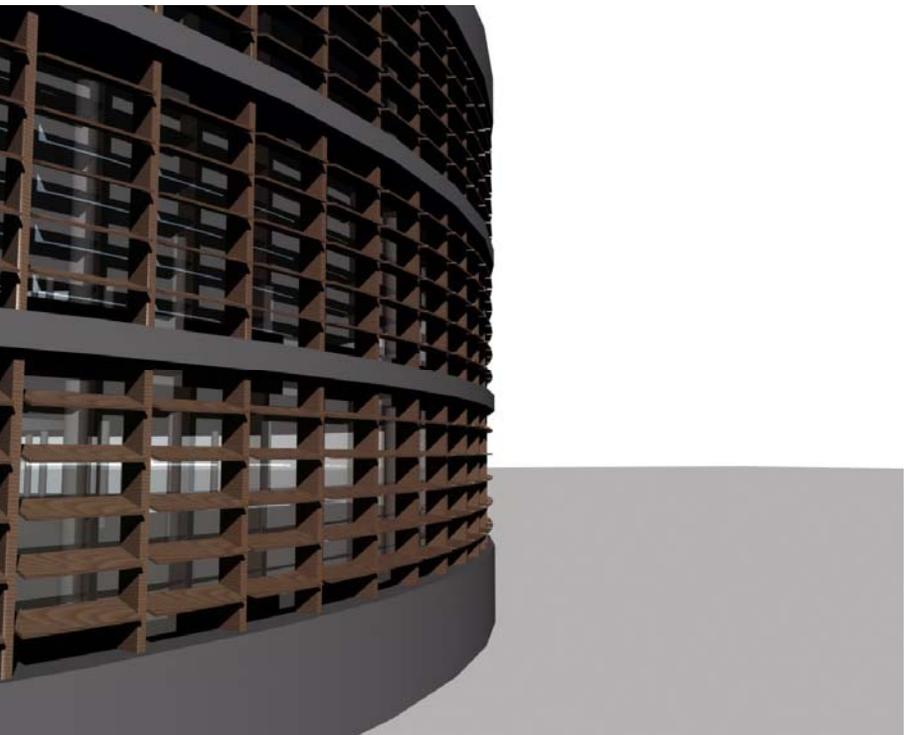
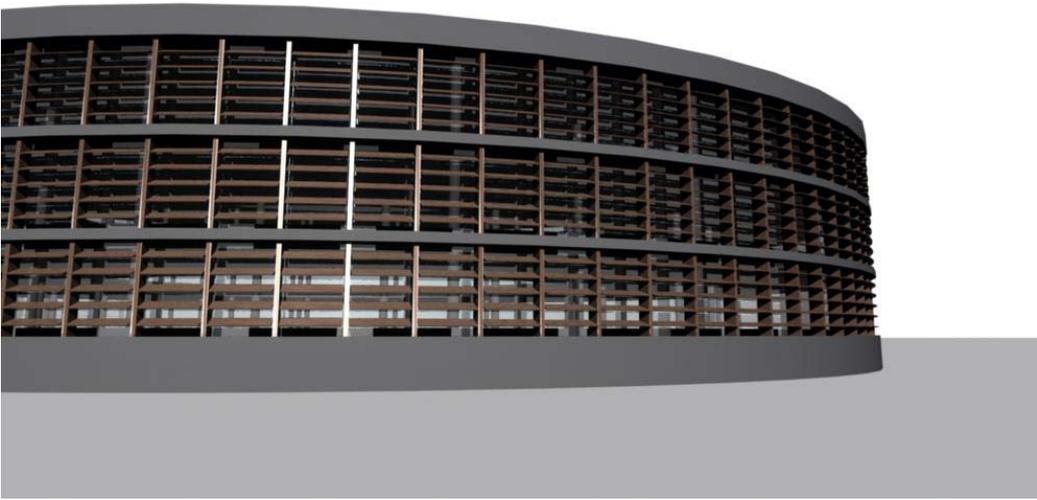


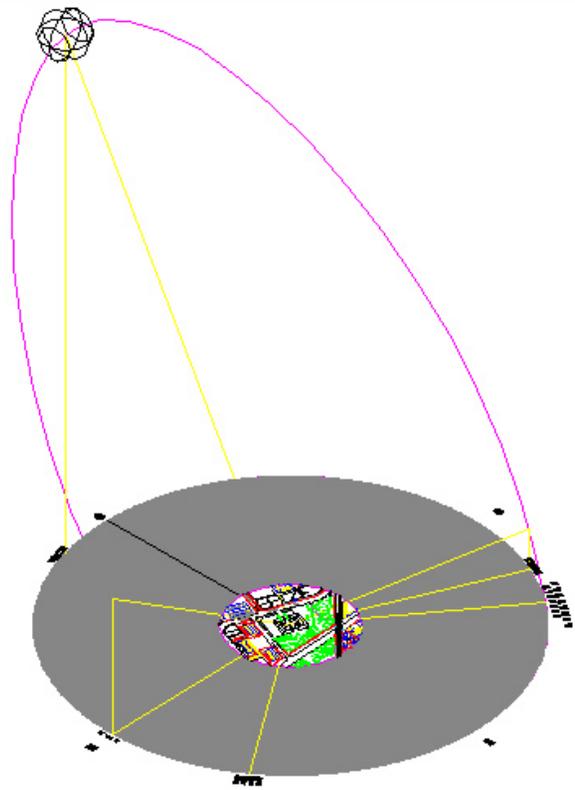


Cours Expérimental

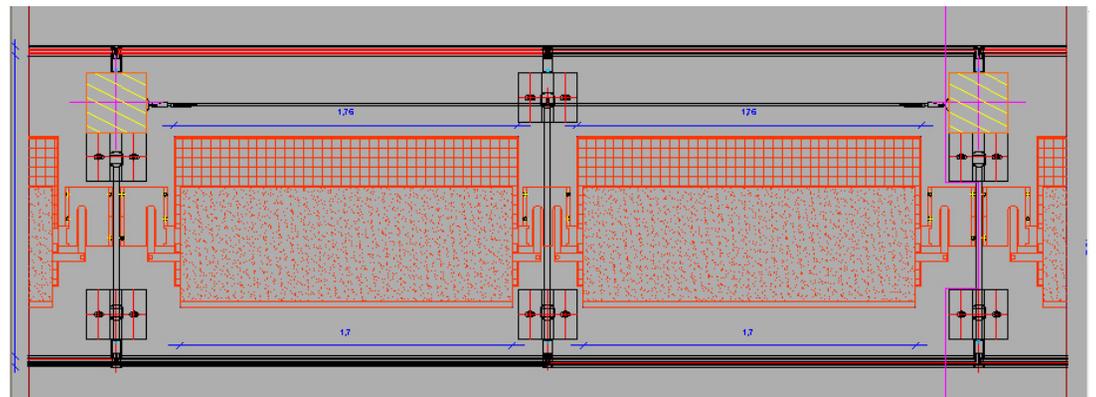
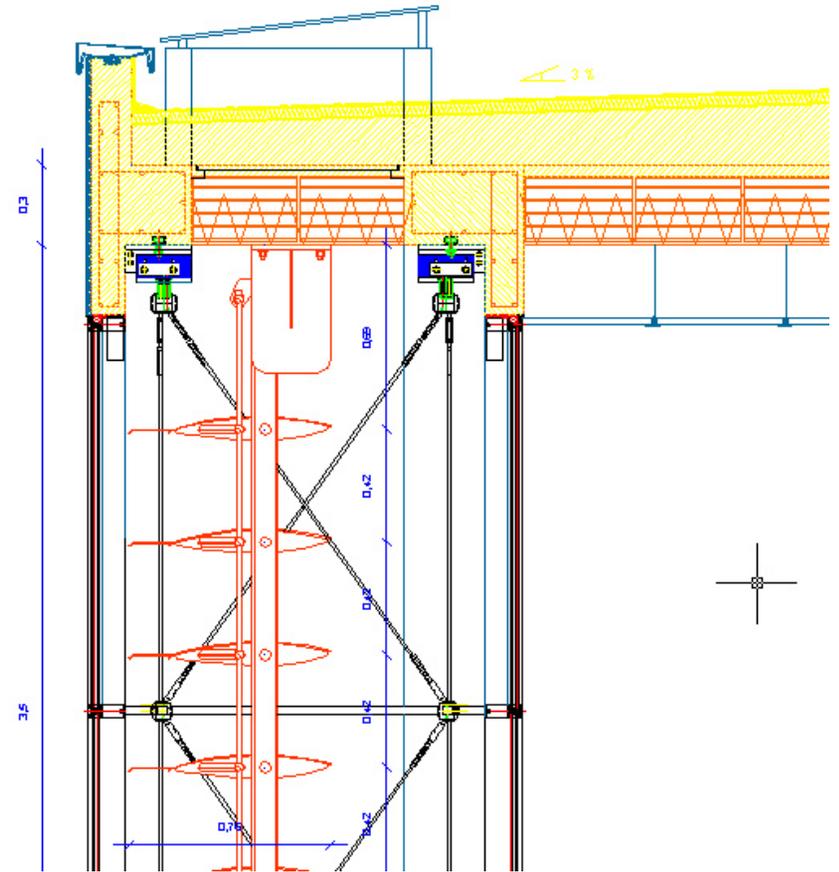


Cours Expérimental





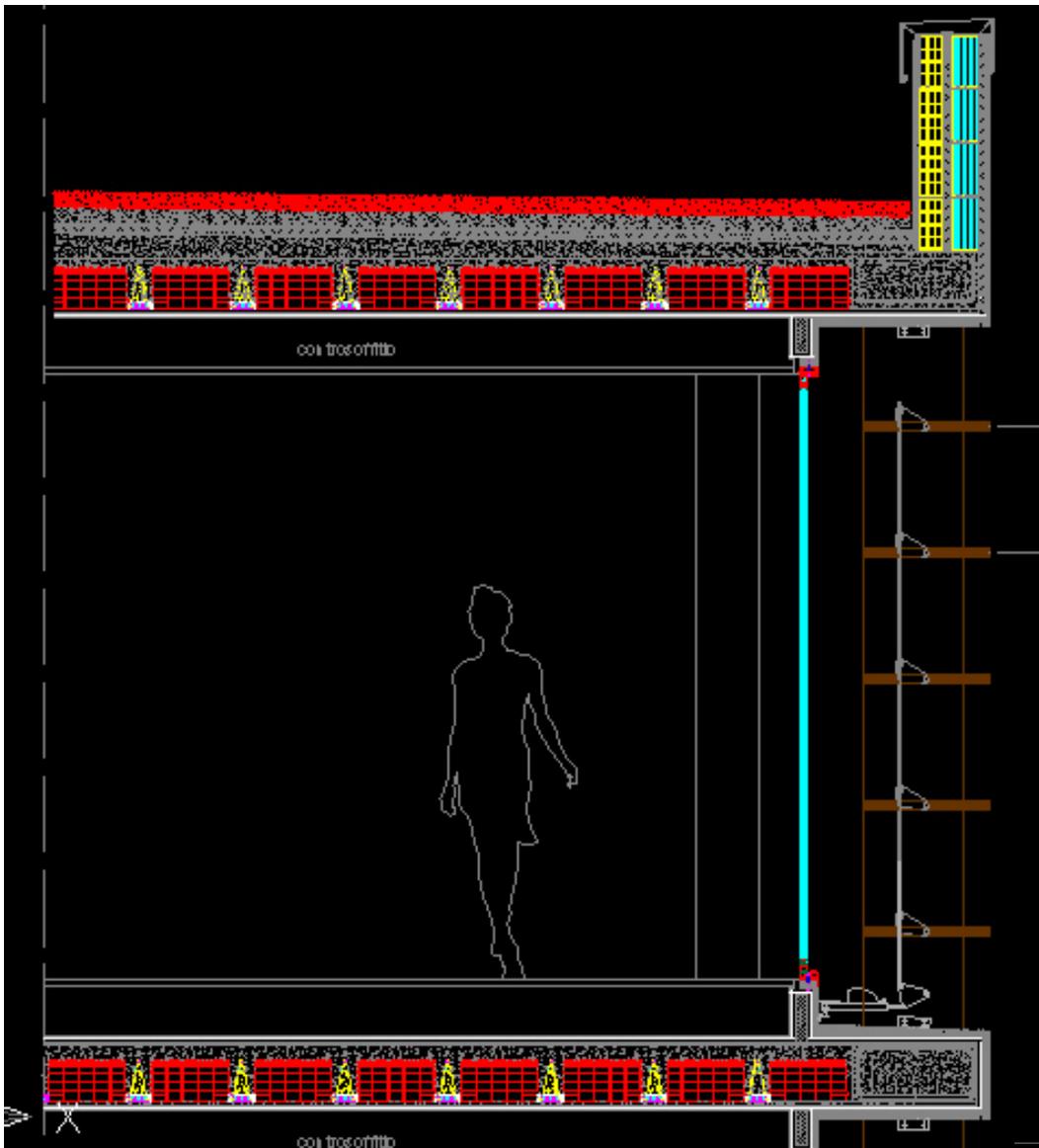
21 Giugno 2003



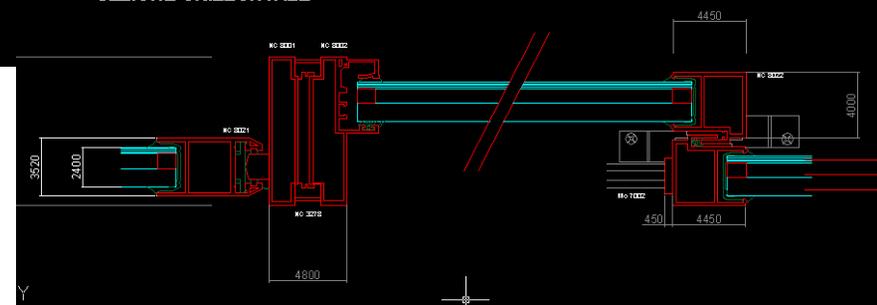
Cours Expérimental
Thème de projet assigné

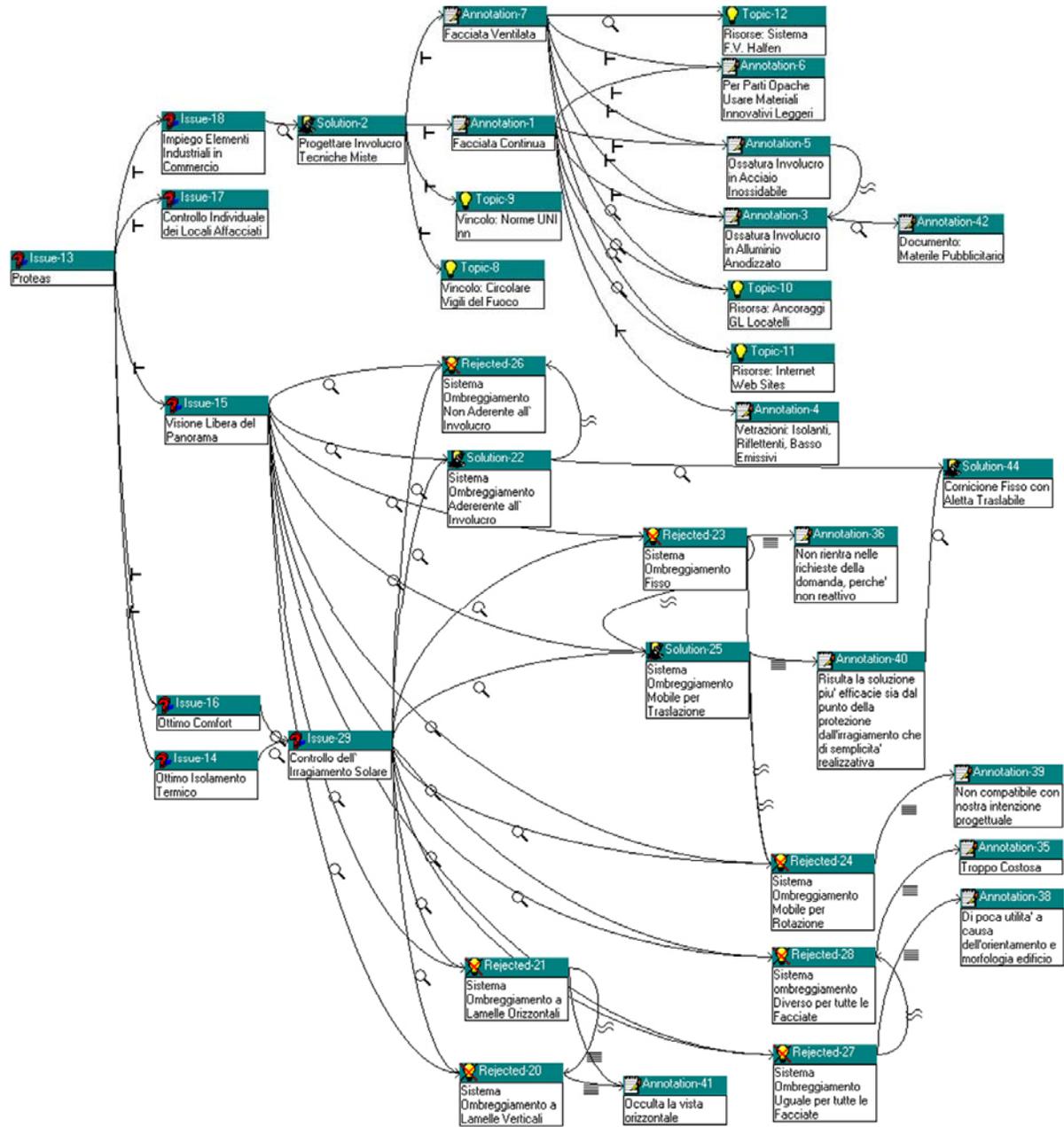
Cours Experimental

Thème de projet assigné



SEZIONE ORIZZONTALE





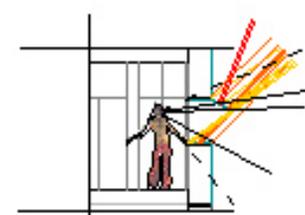
INQUADRAMENTO: COMUNE DI ERBA

scala 1:1000



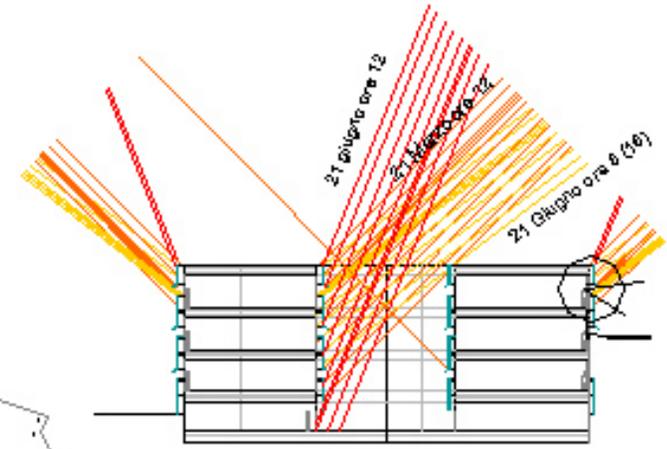

si ipotizza un inserimento nella piazza principale del comune di Erba le condizioni di contorno (piazza, piazza Armatelj) sono stabilite, così come la latitudine e la longitudine.

MOVIMENTO SOLE

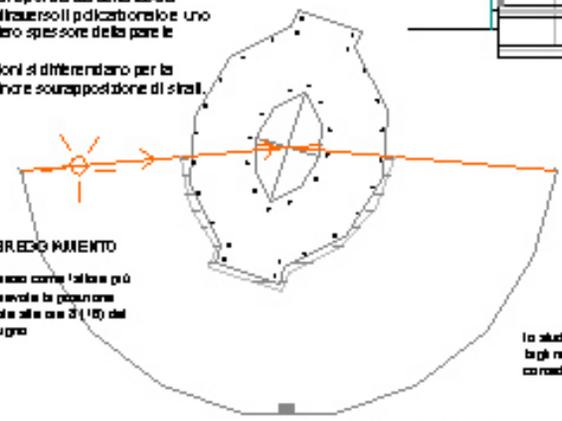


VEIBILITÀ

Si propongono diversi campi di visibilità, uno completo in corrispondenza della testata del letto, uno all'ingresso polycarbonato e uno all'ingresso interno spessore della parete unitaria. Le diverse uscite si differenziano per la maggiore o minore sovrapposizione di strati.



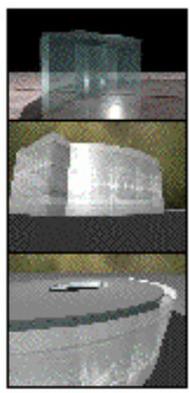
patio interno



OMBREGGIAMENTO

si è preso come l'ora più sfavorevole la proiezione del sole alle ore 14 del 21 giugno.

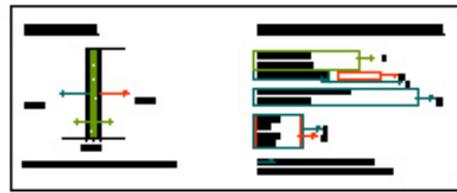
Lo studio del movimento solare ha permesso di calcolare l'altezza dei tagli nel polycarbonato e la profondità e l'inclinazione delle base solari, considerati come delle paglie delle bolle del rivestimento solare.



IL PROCESSO
L'elemento di configurazione unitaria è generale e per un'immagine leggera di trasparenza. Il polycarbonato fu scelto subito perché con una superficie continua, trasparente, i brise-soleil, semplici piegature, un solo strato del rivestimento in polycarbonato, rompono la simmetria in rompendosi in diversi punti della facciata.

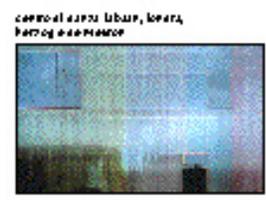
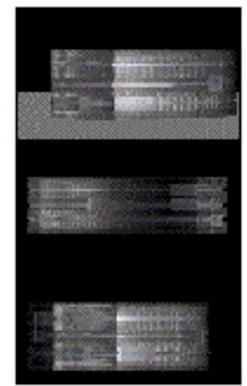
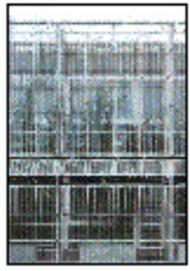
MATERIALI

VETRO

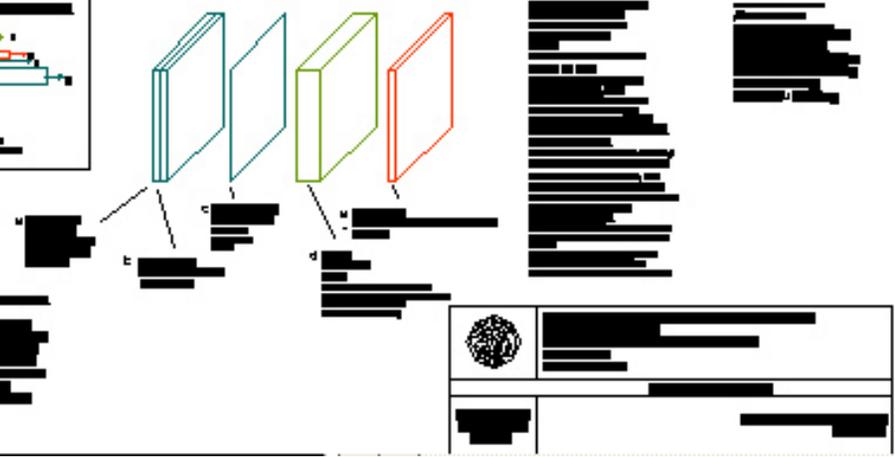


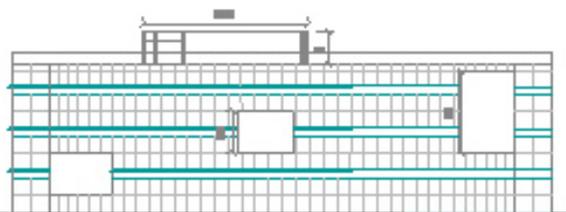
POLICARBONATO

Misso Architetto: Gianella Zuccherato e Jean Philippe Vialat



si è preso come l'ora più sfavorevole la proiezione del sole alle ore 14 del 21 giugno.





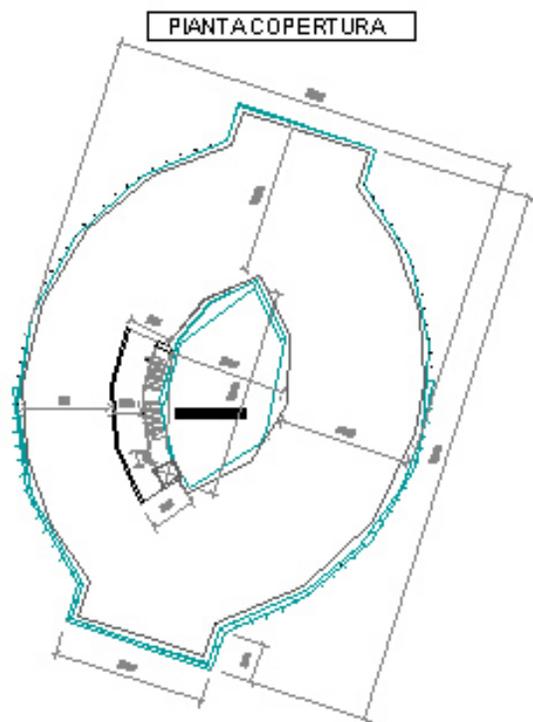
PROSPETTO SUD - EST



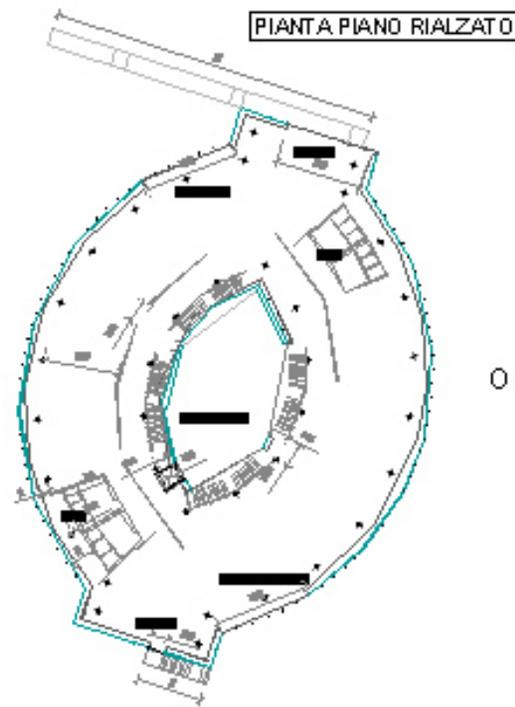
PROSPETTO NORD verso il parco



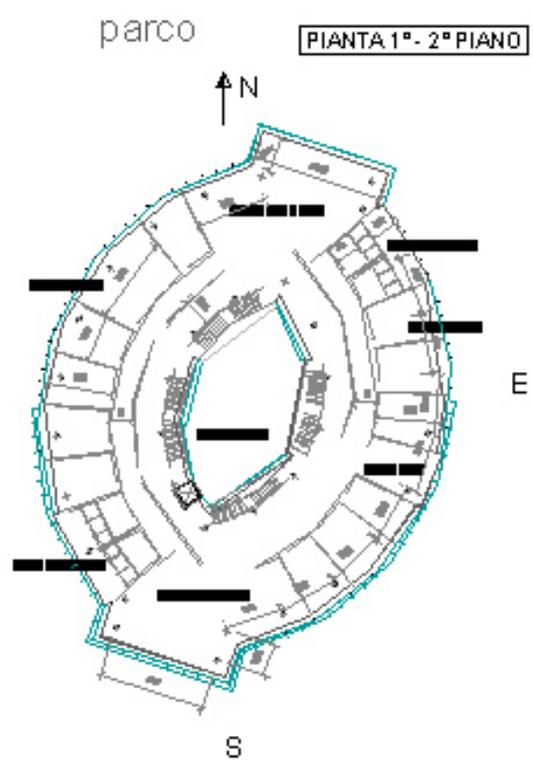
PROSPETTO NORD - OVEST



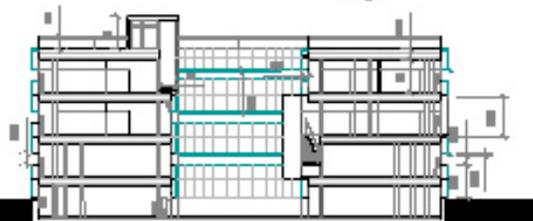
PIANTA COPERTURA



PIANTA PIANO RIALZATO



PIANTA 1° - 2° PIANO



SEZIONE EST - OVEST



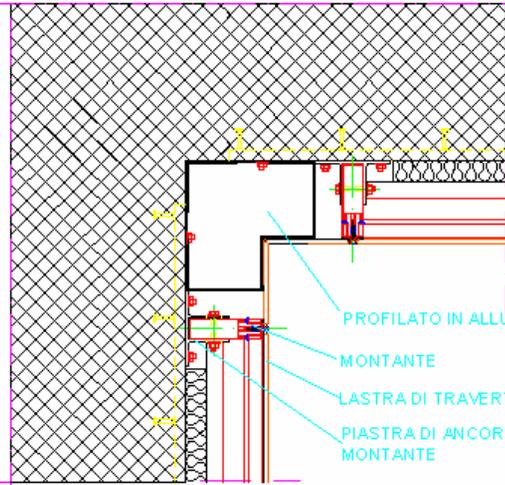
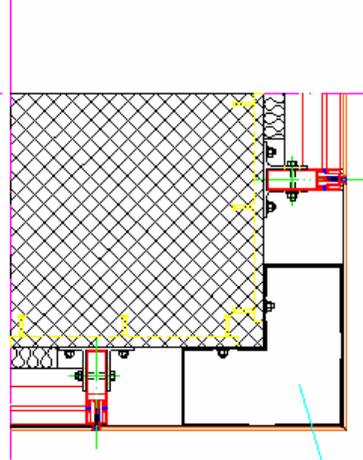
PROSPETTO SUD sulla piazza



SEZIONE ORIZZONTALE - SCALA 1:10

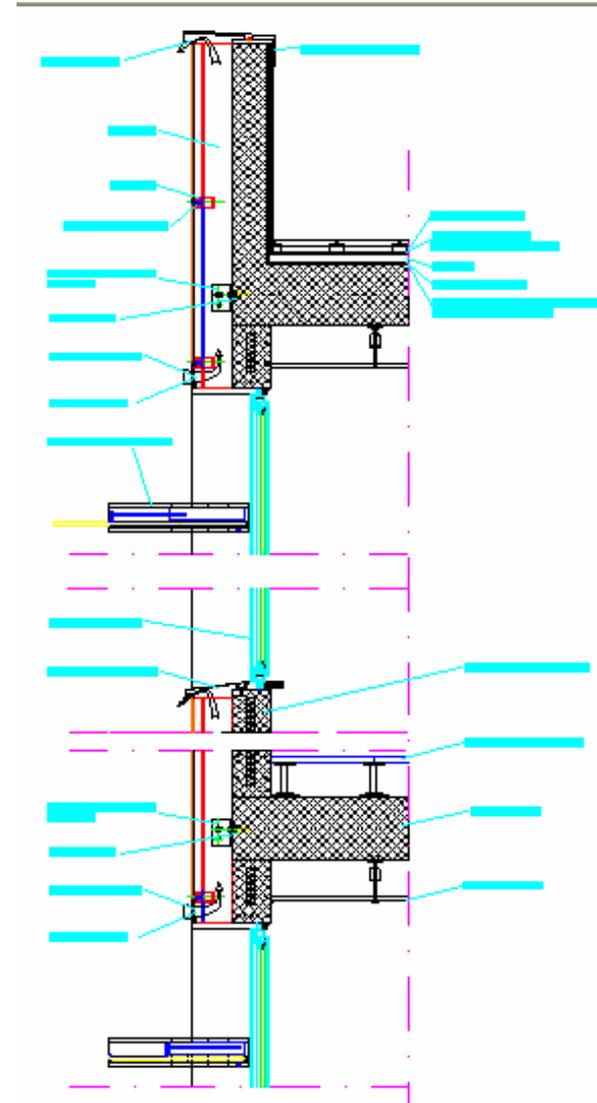
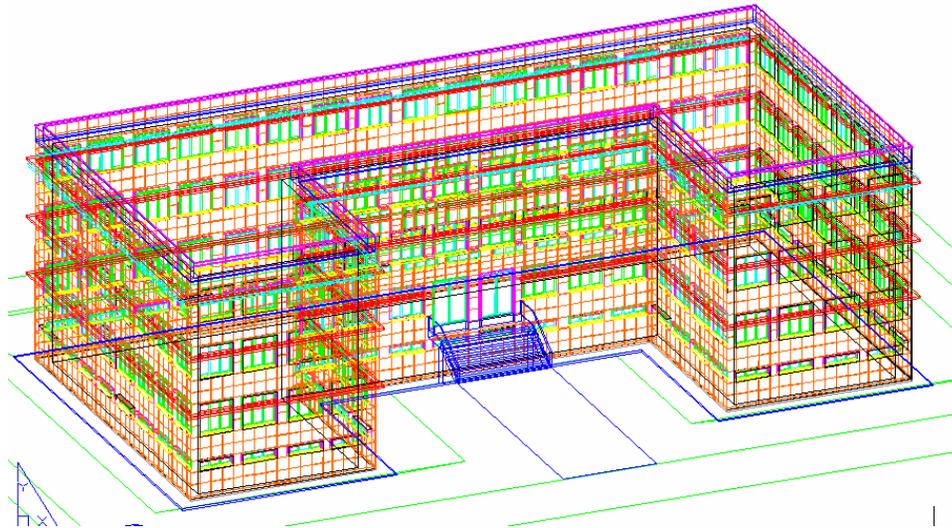
ANGOLO ESTERNO

ANGOLO INTERNO

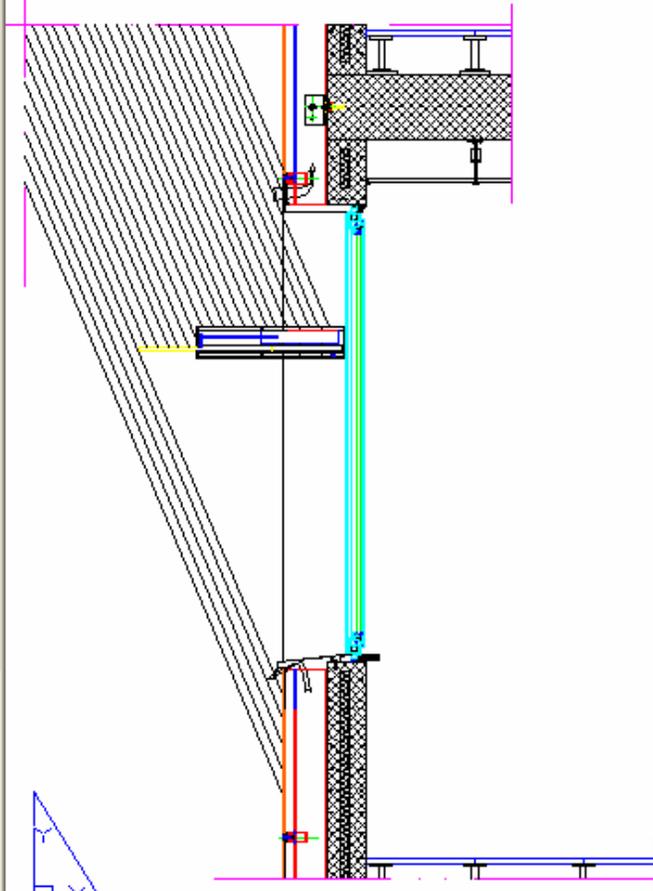


PROFILATO IN ALLUMINIO
MONTANTE
LASTRA DI TRAVERTINO
PIASTRA DI ANCORAGGIO
MONTANTE

PROFILATO IN ALLUMINIO



GIORNO 21-6
 ORA 12
 INCLINAZIONE SOLARE **67°**



ORE	Declinazione SOLE			
	21-mar	21-giu	21-set	21-dic
9	24°	41°	26°	6°
12	44°	67°	45°	21°
14	41°	62°	40°	18°
16	27°	43°	25°	6°
18	7°	22°	4°	ore 16,30 tramonto

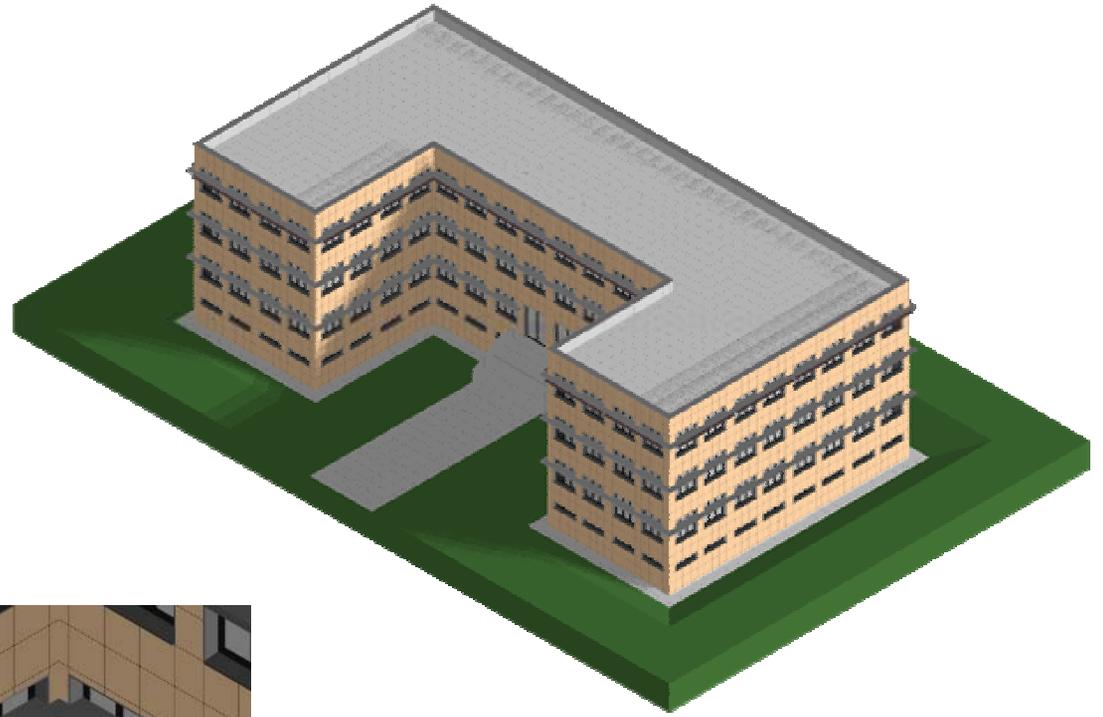
POLITECNICO DI MILANO Dipartimento di Disegno Industriale
 FACOLTA' DI DISEGNO INDUSTRIALE **DI. Tec.** e di Tecnologia dell'Architettura

CORSO DI PROGETTAZIONE TECNOLOGICA ASSISTITA A.A. 2001/2002
 PROF. EZIO ARLA TI, Ass.ti arch. Elena Bogani, Davide Cesco



TEMA di Progetto: Inno luco edificio realizzato tramite facciata ventilata

TAV. N°



CONTESTO CLIMATICO

studio dell'insolazione

data

01 - 04

15 - 04

01 - 05

15 - 05

01 - 06

15 - 06

01 - 07

15 - 07

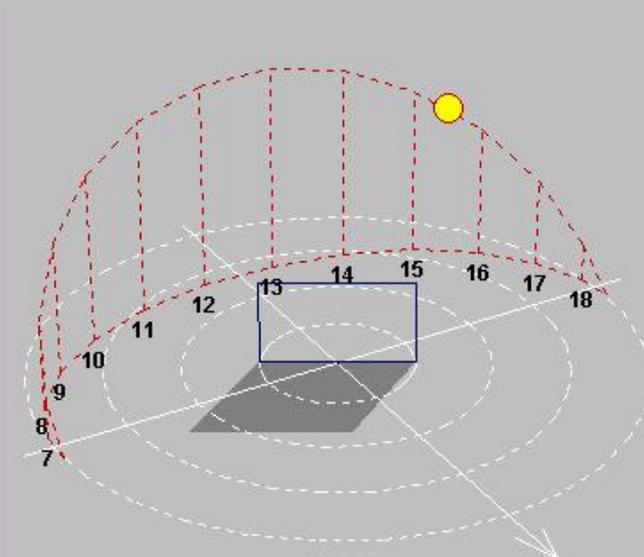
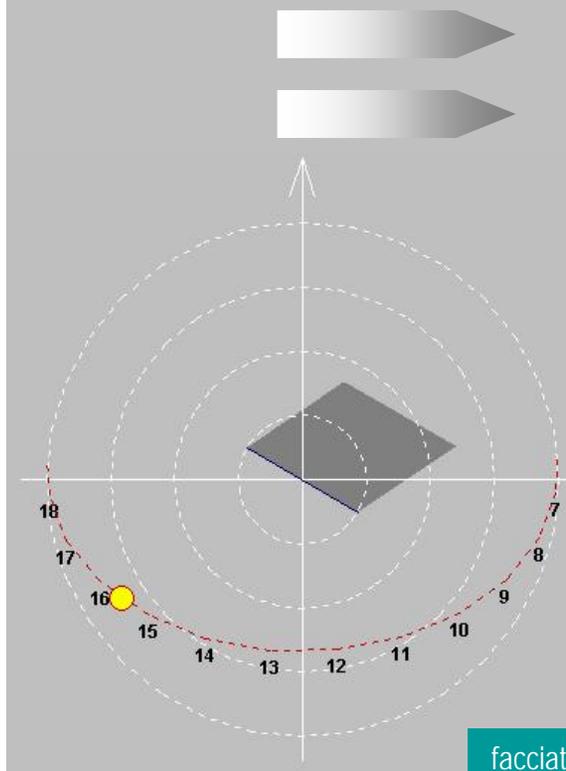
01 - 08

15 - 08

01 - 09

15 - 09

Negli schemi a lato è rappresentato graficamente il percorso solare mentre nella tabella sono riportati i relativi valori degli angoli solari



facciata nord - est data: 15 settembre

XV SETTEMBRE	h. 5:00	h. 5:30	h. 6:00	h. 6:30	h. 7:00	h. 7:30	h. 8:00	h. 8:30	h. 9:00	h. 9:30	h. 10:00
AZIMUT*	*	*	*	88.7	95.1	100.6	106.3	112.4	118.9	*	*
ZENIT	*	*	*	4.1	9.3	14.6	19.7	24.7	29.4	*	*
AZIMUT REL **	*	*	*	58.7	65.1	70.6	76.3	82.4	88.9	*	*

la condizione di raggi tangenti in uscita è raggiunta alle ore ore 9:04 con zenit 29.7°

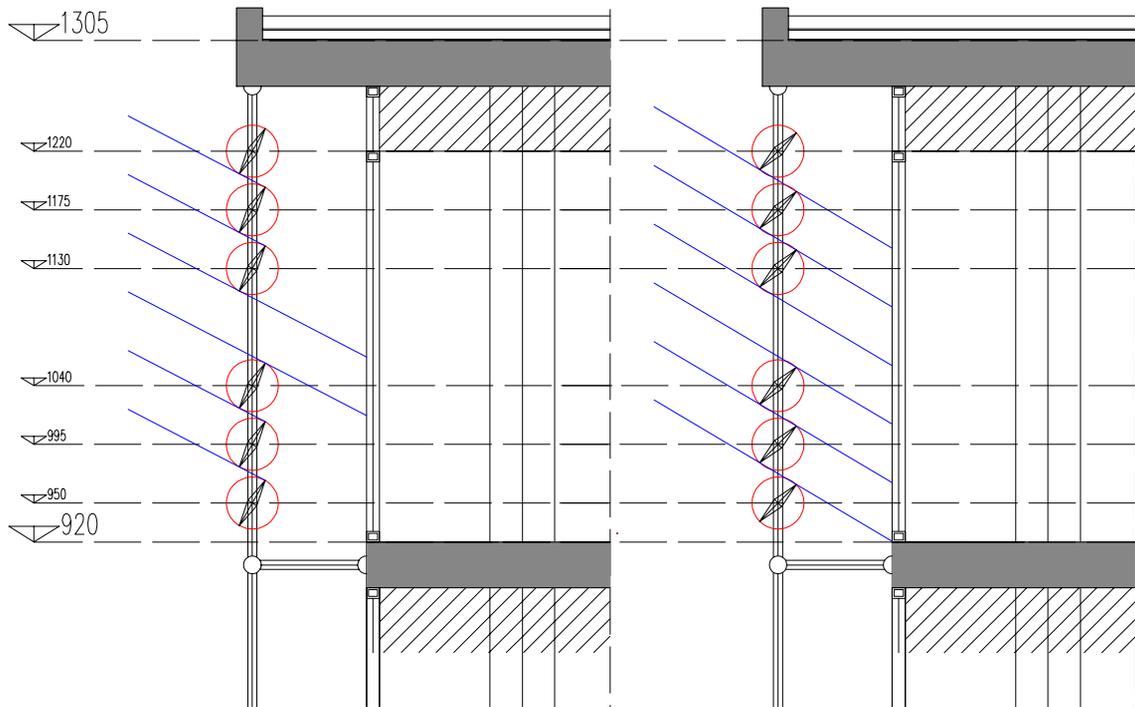
il sole sorge alle ore 6:07 con azimut 85.7°

e tramonta alle ore 18:31 con azimut -85.9°

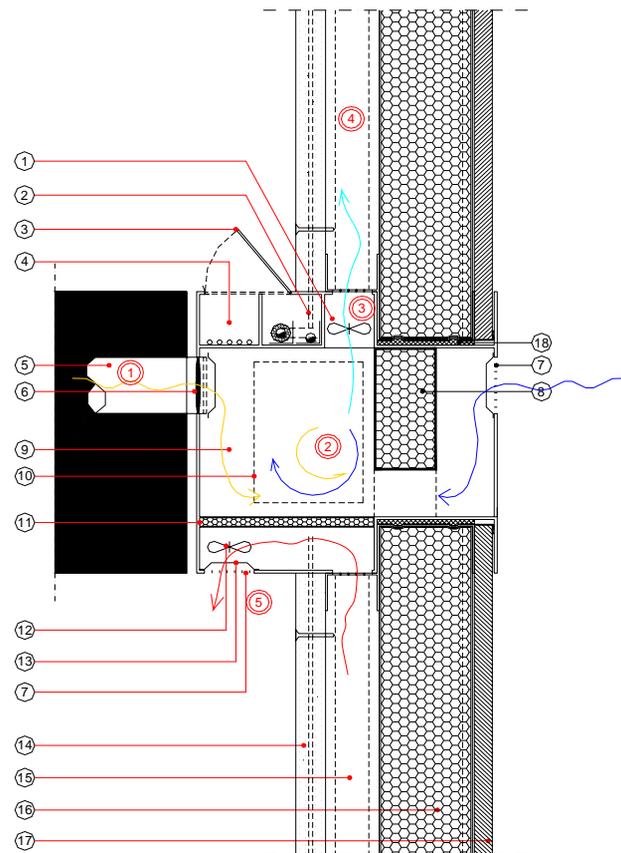
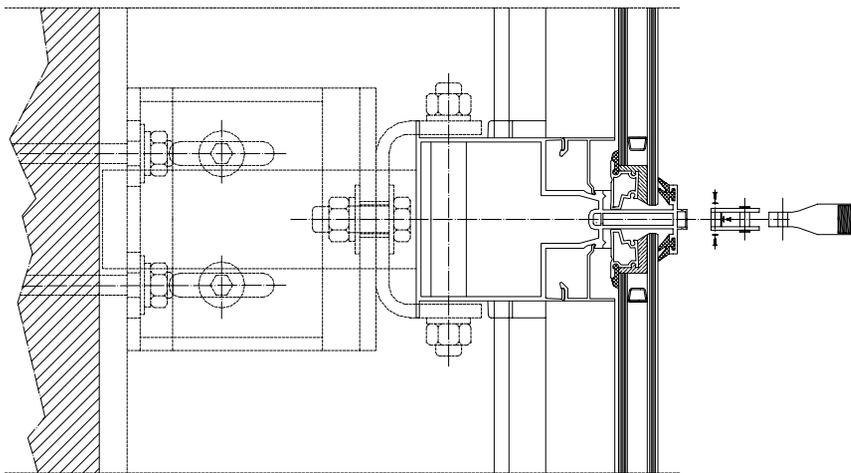
* riferito alla direzione nord

** riferito alla direzione perpendicolare al prospetto





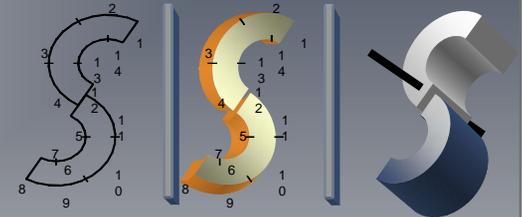
Sezione verticale



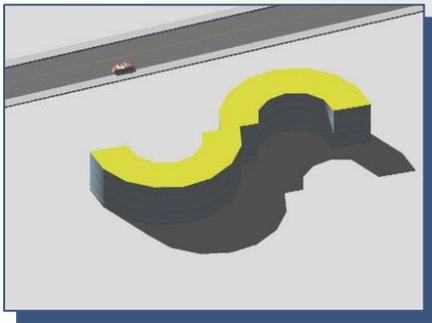
Percorso Solare:

EQUINOZIO: ESTATE - Ore 08:00

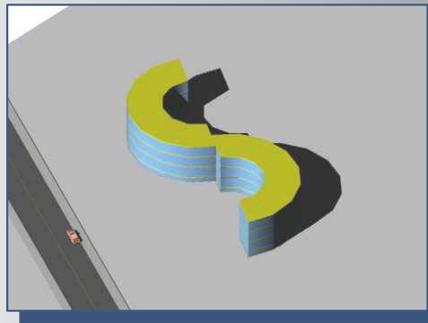
NUMERO DI FACCIATE



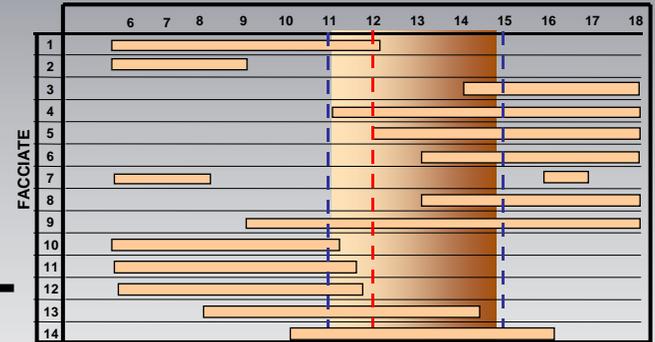
VISTA NORD-OVEST



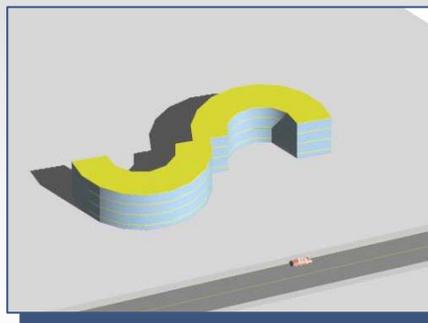
VISTA NORD-EST



ORE DEL GIORNO



VISTA SUD-OVEST



VISTA SUD-EST

SOLEGGIAMENTO: un'adeguata quantità di sole per tutte le facciate eccetto la n° 7 che ne ha il sole solo in mattinata e al tardo pomeriggio.

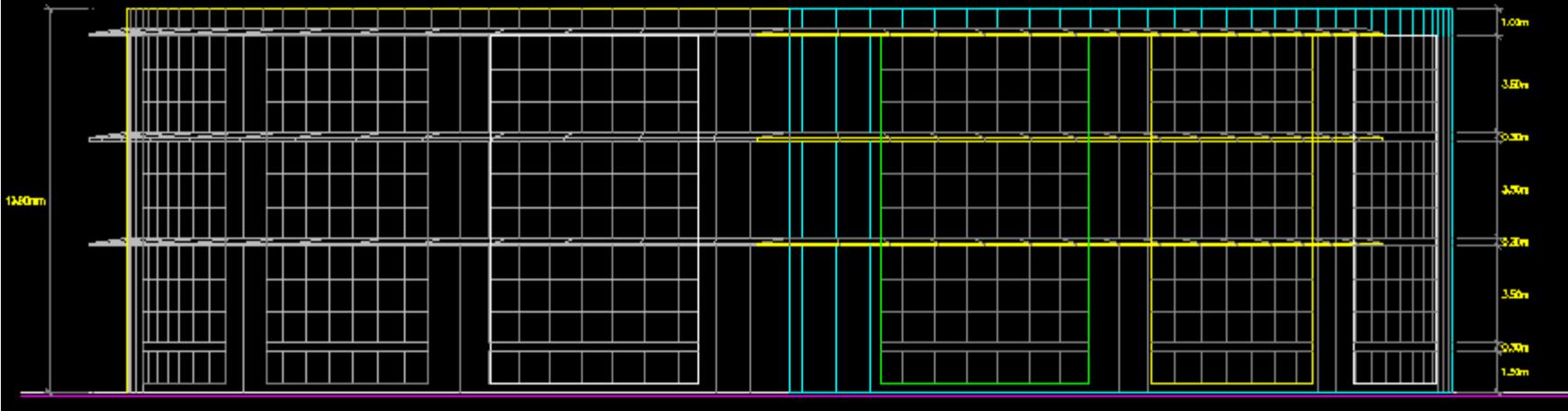
Politecnico di Milano – Dip. Disegno Industriale e Tecnologia dell'Architettura
 A.A. 2002/2003 Corso Monodisciplinare di:
PROGETTAZIONE TECNOLOGICA ASSISTITA
 Prof. Ezio Arlati
 Architetti: Elena Bogani, Davide Cesco



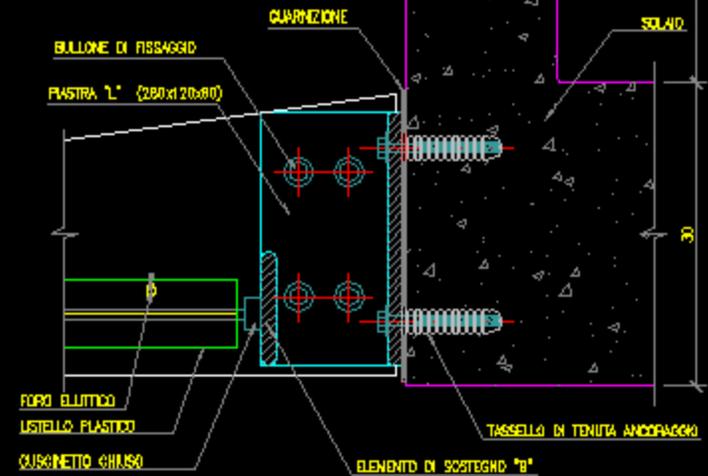
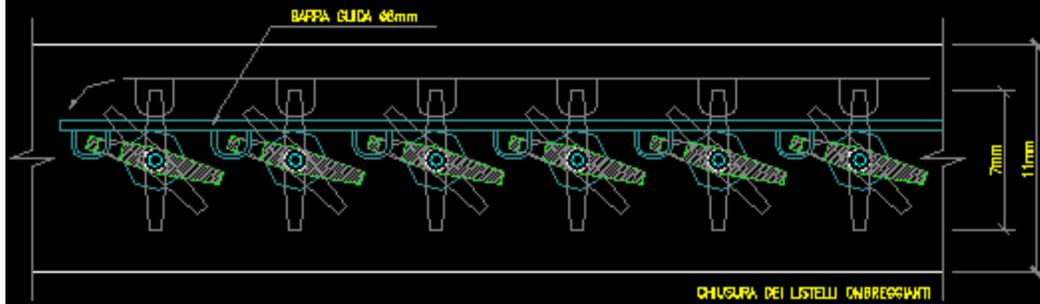
Studente:	Rossi Arturo	Data:	28/01/200	Scala:	1:100
Matricola:	195377		3		

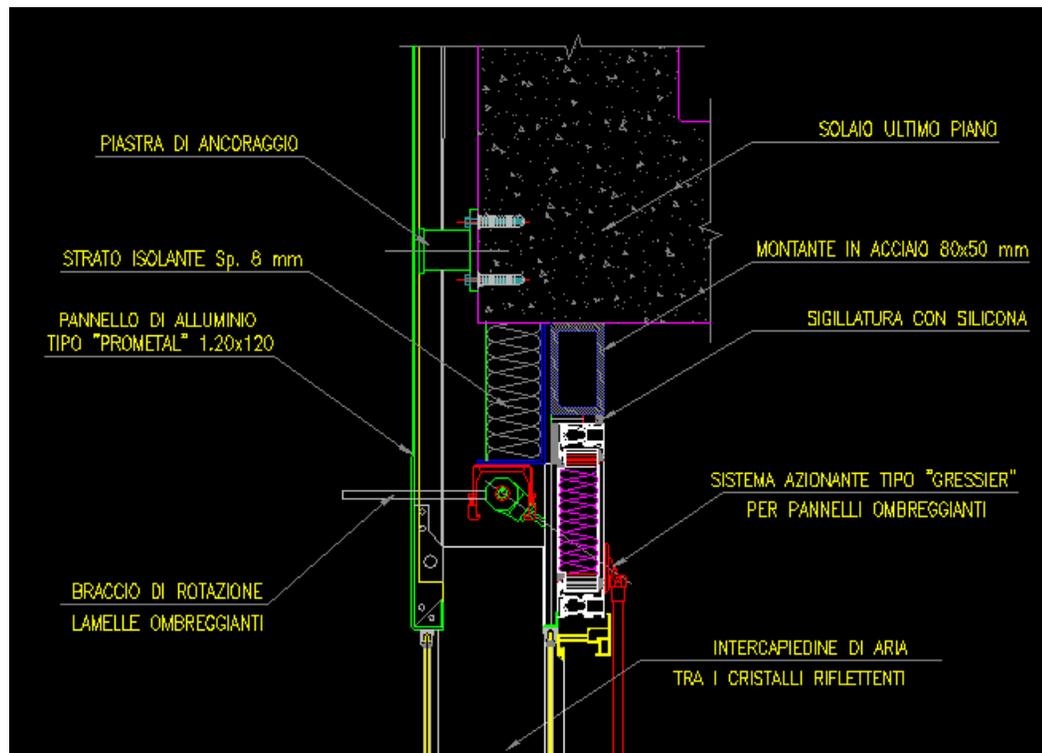
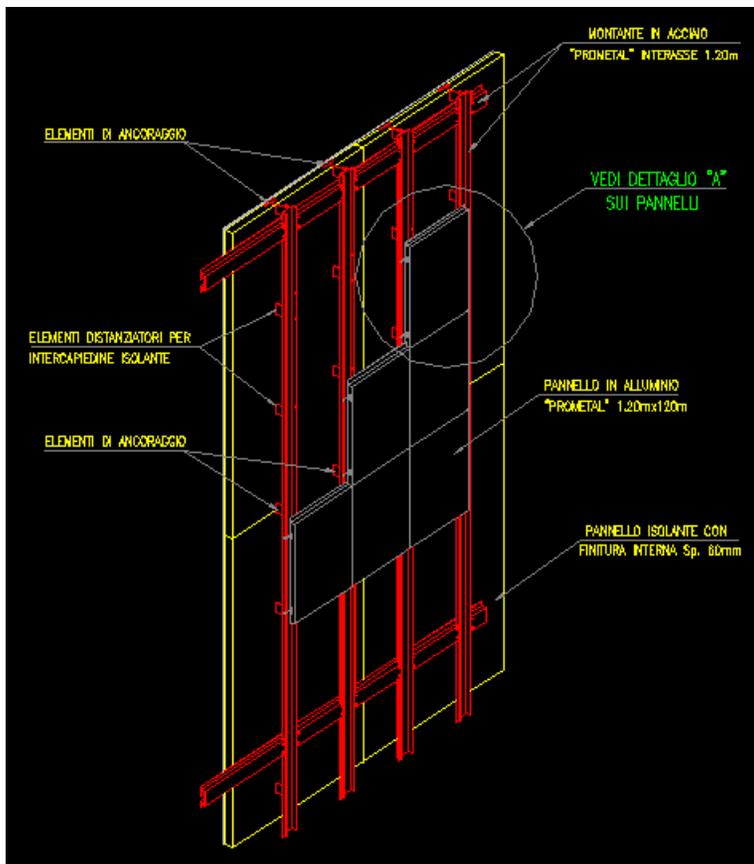
Titolo:

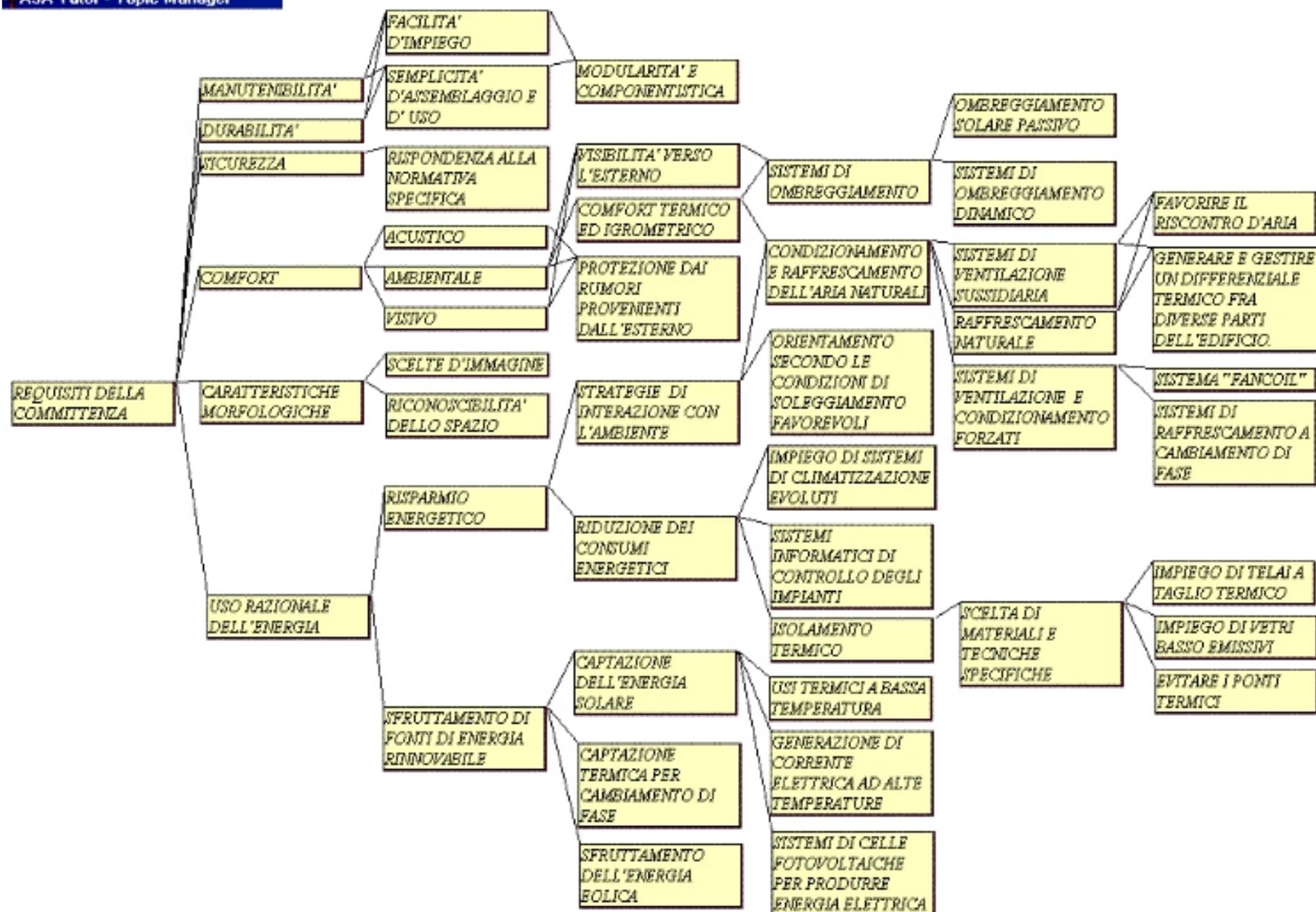
FACCIATA SUD

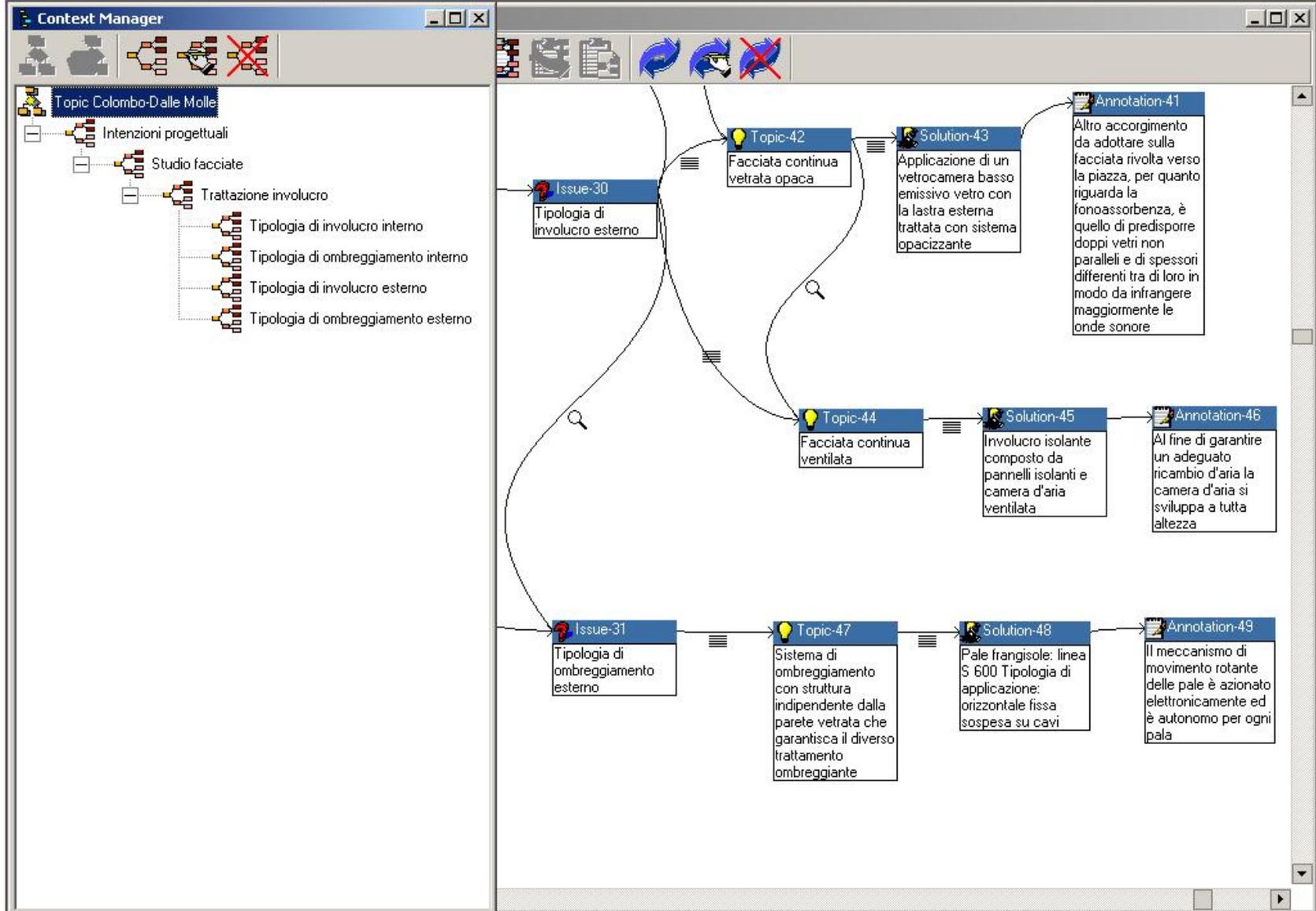


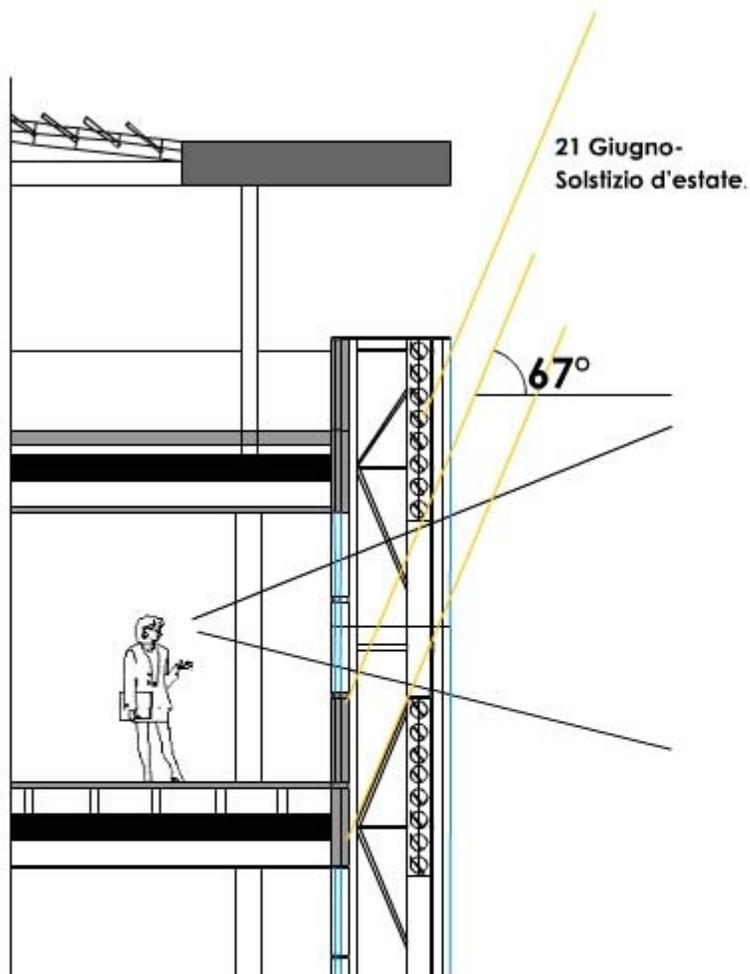
SITUAZIONE ESTIVA SCALA 1:2.5



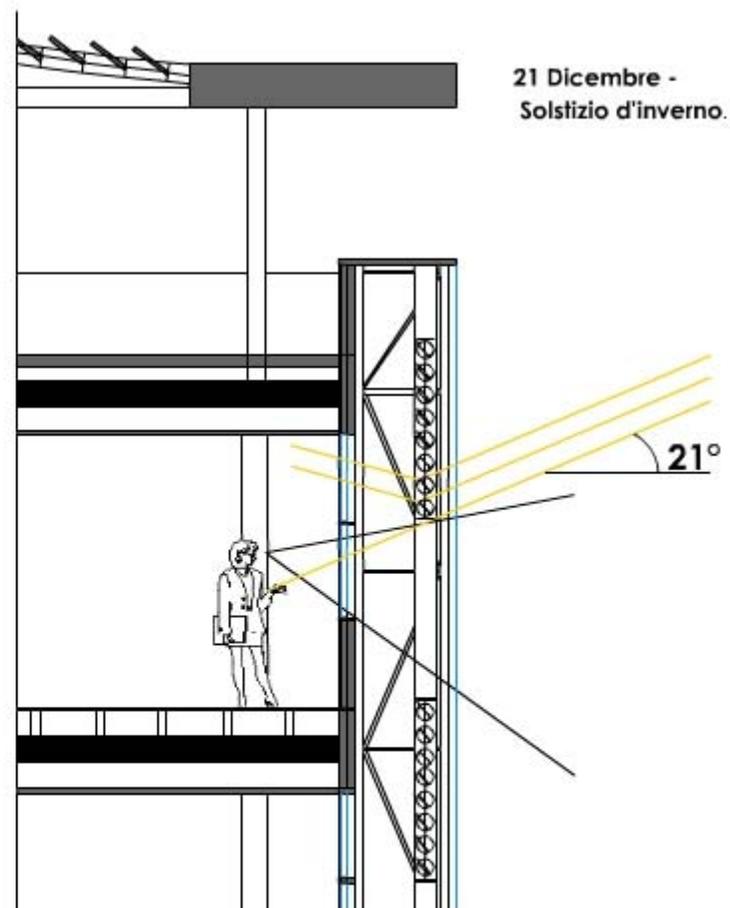








I Pannelli ombreggianti traslano impedendo la penetrazione dei raggi solari all'interno degli ambienti di lavoro, consentendo allo stesso tempo una visuale indisturbata verso l'esterno.



L'ombreggiamento trasla verticalmente intercettando i raggi solari che hanno una minore incidenza rispetto allo zenit. Si evitano così fenomeni di abbagliamento mentre la luminosità penetra all'interno riflettendosi sulle lamelle. E' inoltre possibile regolare il sistema in diverse configurazioni intermedie tramite l'orientamento delle lamelle.

