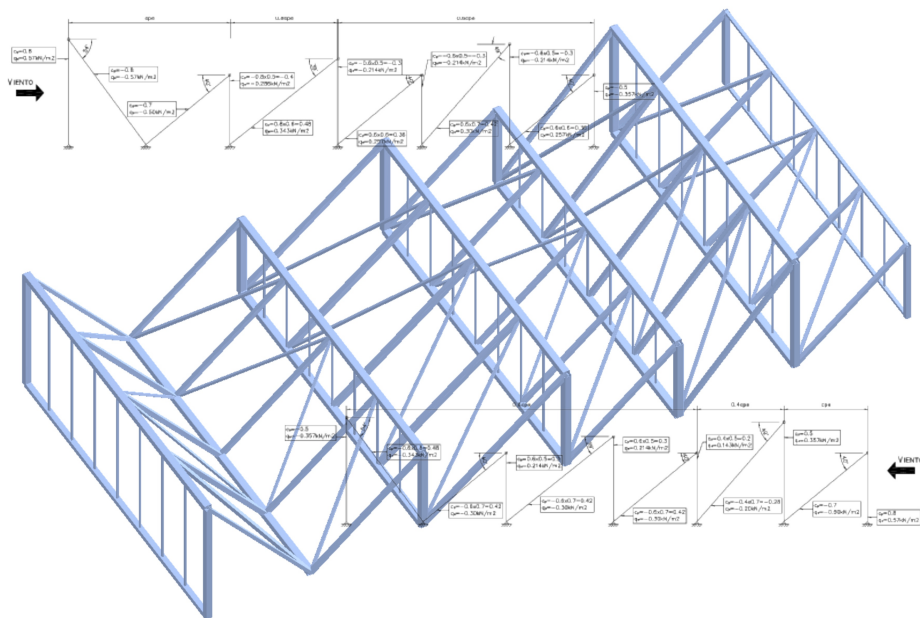


PUBLIC SCHOOL CAMILO JOSÉ CELA (MADRID)



METALLIC ROOF STRUCTURE FOR THE MULTIPURPOSE ROOM

The deck to be designed covered a rectangular enclosure about 26 meters long by 11.7 meters wide, with a rather singular geometry, reminiscent of a sawtooth roof.

The vertical facings of the deck were closed by glass panels 1.2 meters wide to allow the natural lighting of the room.

The structure of the cover was solved by structural tube lattices in order to minimize its weight. Since the client required the absence of diagonals in the vertical walls of the deck, it was necessary to dimension the slopes as lattice beams working according to an inclined plane. Consequently, the small section bars contained in the vertical planes were only intended to withstand the anchoring of the glass.