

3.11 Design of a seismic resistant fire station

Mazzolani F., Italy

Action TU 904
Integrated Fire Engineering and Response

DESIGN OF A SEISMIC RESISTANT FIRE STATION



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The Fire Station of Naples (7 buildings made of steel)




- Building A: Garage, canteen, auditorium, offices
- Building B: Training school, guest rooms
- Building C: Workshop
- Building D: Scaffolding
- Building E: Thermo-electrical plant
- Building F: Operative center
- Building G: Headquarter, offices
- Building H: Gymnasium

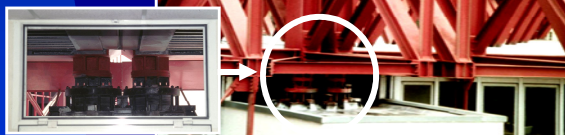


2

Building A



The first example of base isolation in Italy



3

Building A

ECCS award 1987


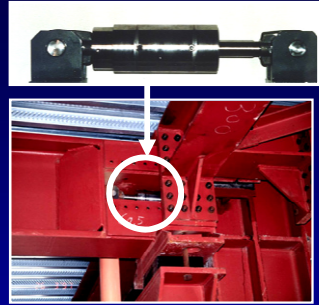
Motivation of the international jury :

" Due to its seismic safety, this building is the perfect demonstration of the possibility of steel. At the same time it is reach of expressive values and it demonstrates that the fire prevention authorities can overcome the objections, which somebody could sometime have against the use of constructional steelwork."



4

Building B

The first example of passive control in Italy, by means of shock block transmitters

5

Building C: Workshop





6



**Building D :
Scaffolding**

7



Building H : Gymnasium

8



Building G : Headquarter, offices

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FIRE RESISTANCE

EARTHQUAKE PROTECTION

ARCHITECTURAL FEATURES

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