

Esoscheletri in acciaio per edifici esistenti con telai in c.a.

Della Corte G., Nigro F., Martinelli E., Cantisani G.

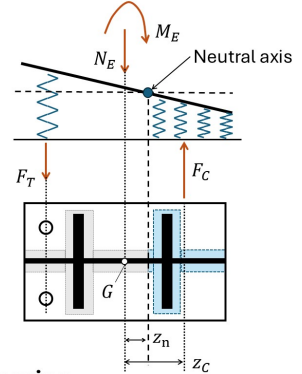
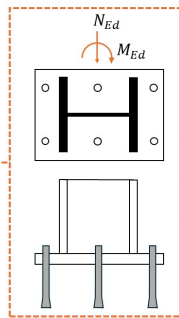
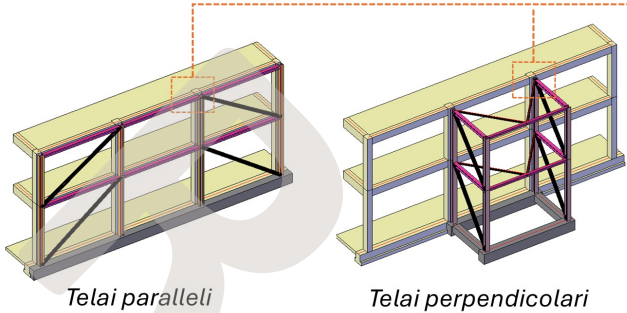
Studio analitico dei collegamenti acciaio-calcestruzzo

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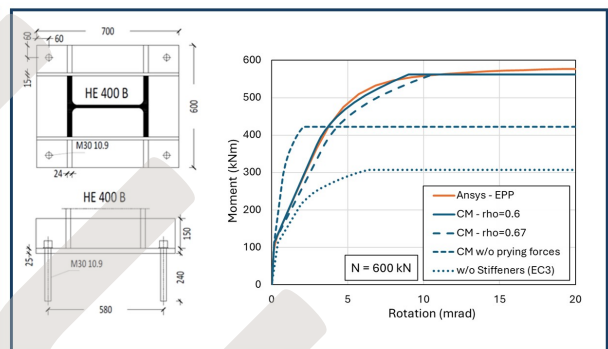
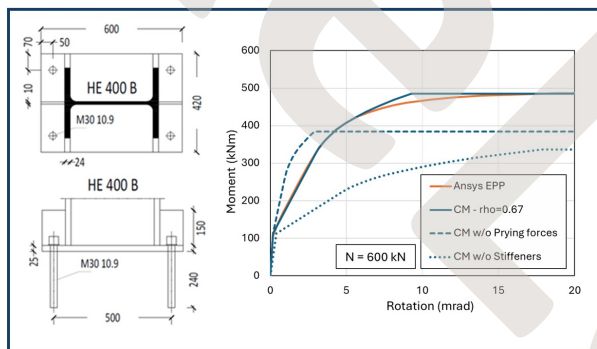
Possibili disposizioni alternative dei telai in acciaio

Il collegamento basilare

Il modello meccanico



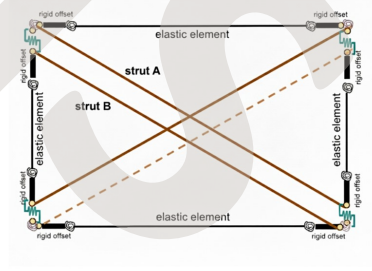
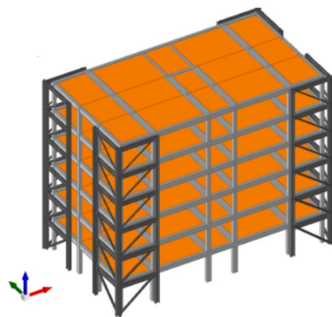
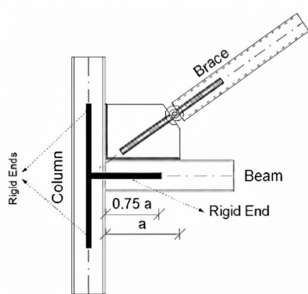
Casi studio e confronto tra modello analitico e modello numerico



Effetti delle tamponature sul comportamento degli esoscheletri

Nigro F., Della Corte G., Martinelli E.

Archetipo strutturale e aspetti significativi della modellazione non-lineare



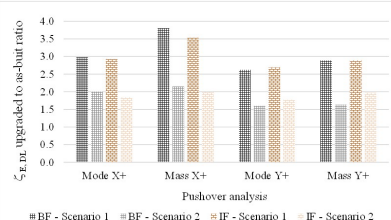
Due scenari per il progetto degli esoscheletri →

$$V_{b,d, \text{Scenario 1}} = (\lambda m_{tot}) \cdot \delta \cdot \frac{S_a(T_{1,SCBF1}, PGA_{30})}{q_{SCBFs}}$$

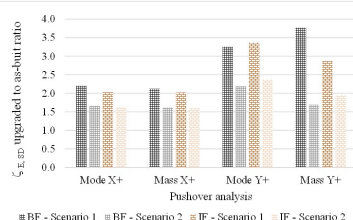
$$V_{b,d, \text{Scenario 2}} = 0.50 \cdot V_{b,d, \text{Scenario 1}}$$

Alcuni risultati significativi da analisi pushover

Danno limitato



Danno severo: crisi duttili



Danno severo: crisi dei nodi in c.a.

