HIT Design Information Requirements

The following outlines the basic information required to design and price HIT connections for precast or insitu concrete balconies. If only a basic design proposal and budget price is required (*eg for tender purposes*), this can be calculated using only points ① to ③ Much of the information shown below can be obtained from the Engineers General Arrangement (GA / Plan) drawing.

Basic Information Required. *(See sketches on right)*

① **Projection of the balcony from the main slab?** ... X'-X"

② **Balcony depth?** ... X'-X"

③ **Type of balcony? *eg Cantilever*** ...

④ Threshold step? ... X'-X"

⑤ Are Soffits level? *if no, a section drawing is required.* Yes/No

⑥ Fall to top surface of balcony? ... X'-X"

⑦ Quantity?

(a) Balcony Width/Length of HIT connection? ... X'-X"

eg For a Walkway or Balcony

(b) No. of balconies? ...

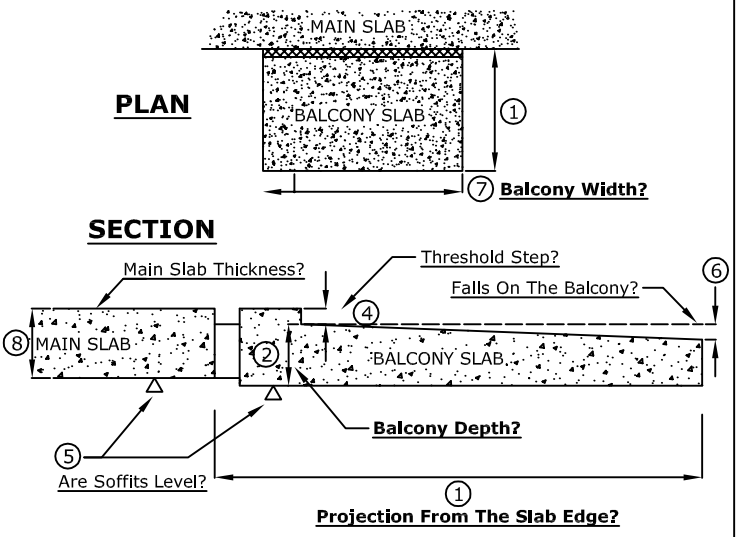
⑧ Main slab construction method & thickness?.

(a) Main slab construction? ...

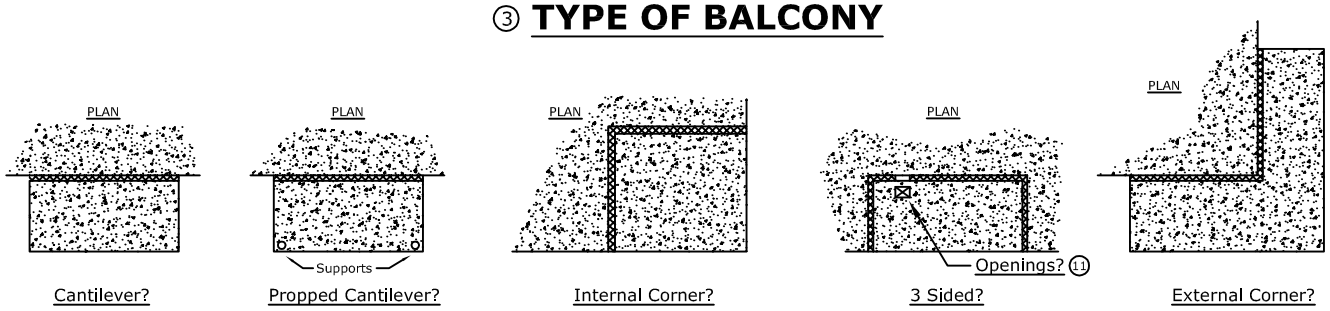
eg Insitu RC, Post-tensioned, Precast Planks, metal deck etc

(b) Main slab thickness? ... X'-X"

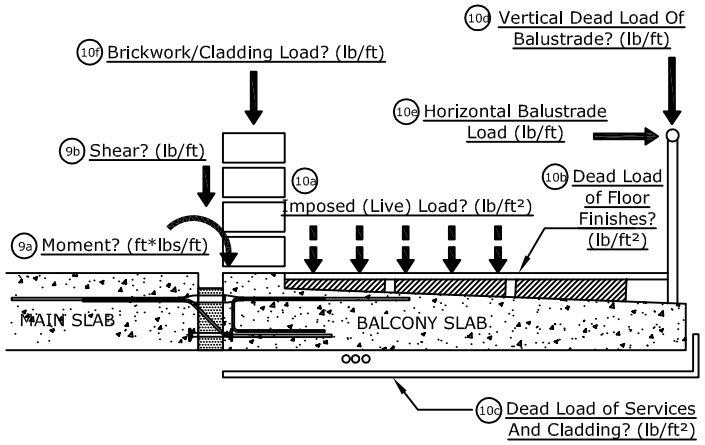
BALCONY DIMENSIONS



③ TYPE OF BALCONY



BALCONY LOADS



Loads. *(See sketches on left)*

Please provide either 9 or 10.

⑨ (a) Moment (ULS factored) at the HIT connection? .. ft*lbs /ft

(b) Shear (ULS factored) at the HIT connection? .... lb/ft

⑩ *Unfactored Loads.*

(a) Imposed (live) load? ... lb/ft²

(b) Dead load of floor finishes? ... lb/ft²

(c) Dead load of services, cladding? ... lb/ft²

(d) Vertical dead load of balustrade? ... lb/ft

(e) Horizontal handrail load? ... lb/ft

(f) Brickwork/Cladding dead load? ... lb/ft

⑪ Any other comments? ...

eg openings in slab (RWP) additional supports etc

PROJECT NAME:

ADDRESS:

HALFEN GROUP
YOUR BEST CONNECTIONS

COMPLETED BY: *Name, Company, Phone & email?*

REF: