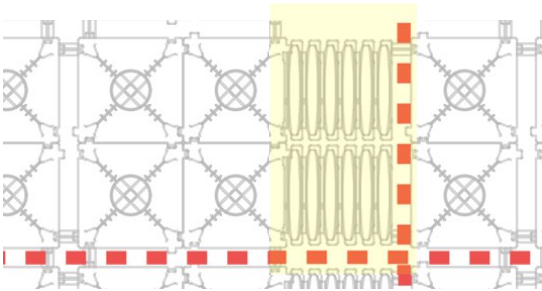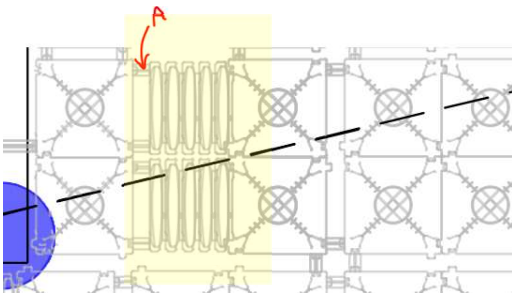# A basic Guide to QPOD Raft Component layouts and componentry usage.

USE OF: QPOD 100mm Extension
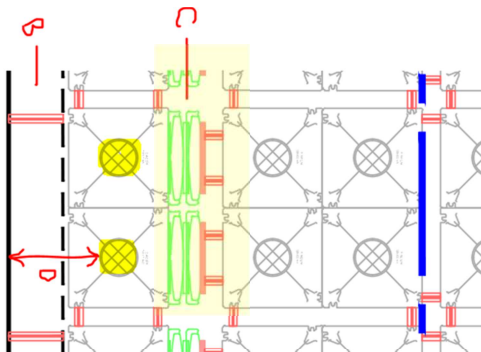

❌ Extensions can't attach to the side of a 'QUAD' A: there is no fixing allowance, B: it mitigates the requirement of ribs at 1200mm centres.
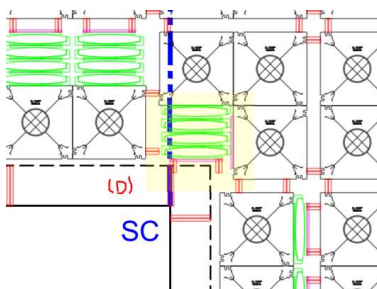

✔ Correct method: 'QUAD' is split making a rib (at 'A') and attaching extensions to the side of one pair of two QPOD.
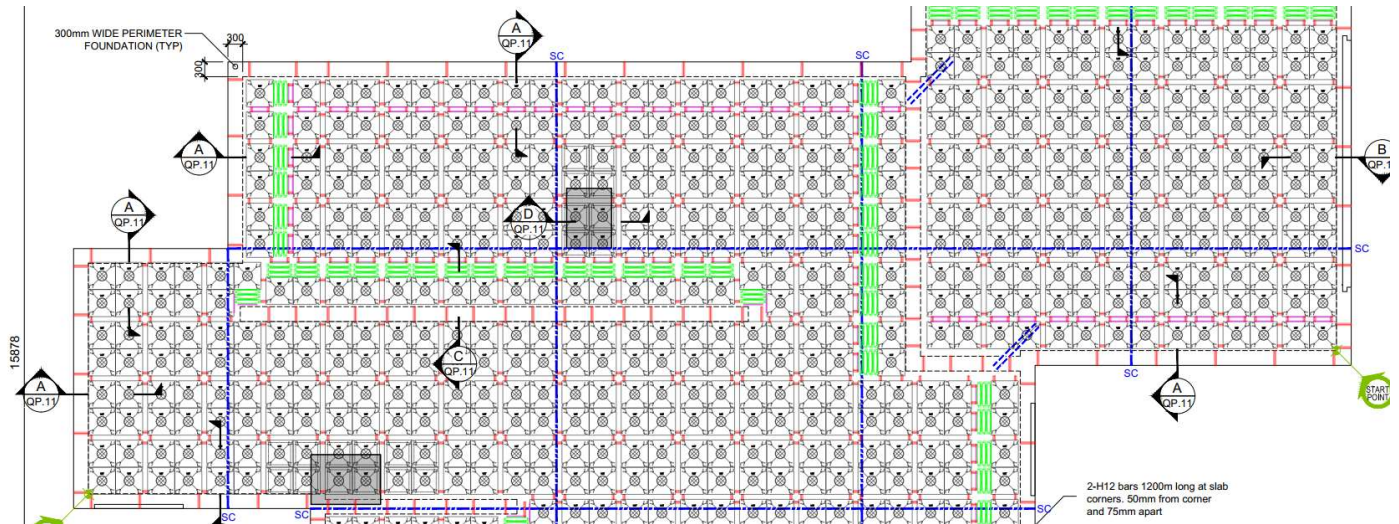
Face Extension **In** to slab:

✔ Correct method: Extensions(C) are placed facing IN to slab giving the mesh maximum support at the perimeter (B) minimizing mesh sag at distance to boxing (D).
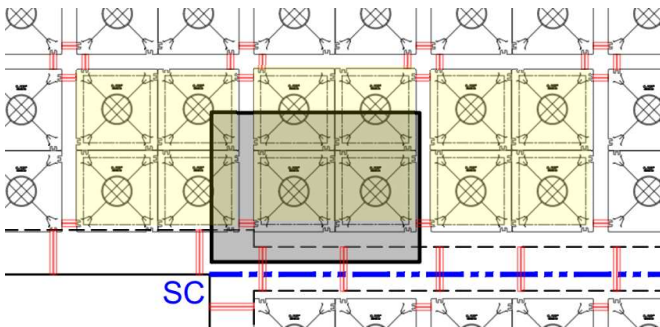

✔ Allowances can be made for extensions facing out, it is not wrong or illegal, it's just preferable they face in for the most part.

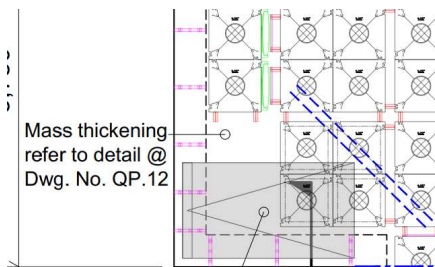# Avoid splitting QPOD 'QUADs' as much as possible:

This example shows good practice of maximizing full 'QUADs' for as much as possible throughout the slab, also shows most QPOD extension location variations.

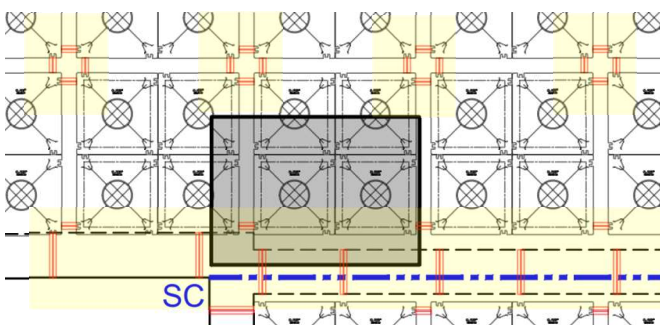# Allow Recessed QPOD under shower recess areas:

Consider recessed shower locations when allocating layout, it is advised full 'QUADs' are maintained under recessed areas to maintain stability of the recessed QPODs, avoid splitting and adding extensions to QPOD in this area, a mass thickening is an option to assist with this.
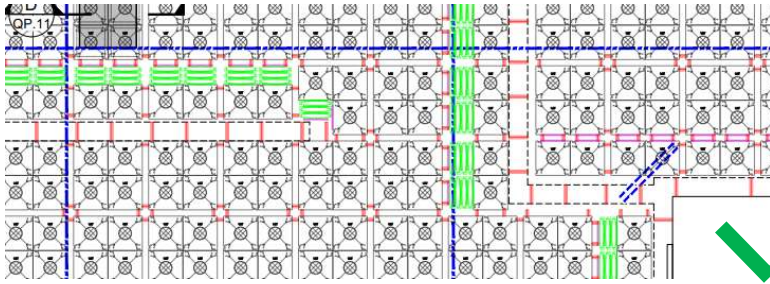
Option showing mass thickening.
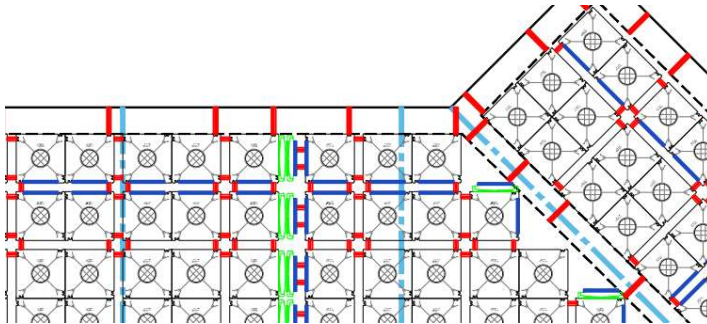
Allocation of QPOD components:

Allocation of components such as QPOD End Caps, 300mm & 100mm spacers is not necessary and can be estimated by site dimensions at time of supply, this is an element we include in our own designs by choice.
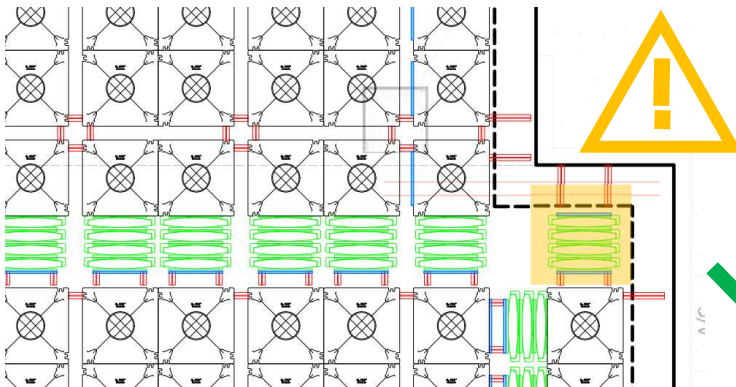
Allocation around internal thickenings:

Allocation around internal thickenings varies, see example here of different ways this is combated using several of the above mentioned pointers.
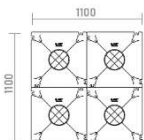
Combating changing of angles in foundation:

Combatting of angles can be achieved by staggering the QPOD accompanied with extensions in a manner that best fills the angle voids, as demonstrated in the example here, the voids left empty can be better analyzed on site to fill with extensions if the space allows.

Allowing for Void Fillers (extensions standalone)

This layout examples the use of extensions as a standalone unit. This practice is largely to be avoided but is adopted in the situation where best layout is maintained and is used to the very minimum of situations. The standalone void filler is not stable, extensions are strongly advised to be attached to QPODs for support.

References:

QUAD: refers to a group of 4x QPOD as they come supplied (pre-assembled) dimensions 1100x1100x220mm

QPOD: refers to a single QPOD 550x550x220mm

QPOD Extension: refers to a 100mm modular unit extension of the QPOD