

Comments 1

**1- 2 sets of ties are required to support the starter bars in the foundation.**

TMK Response

Ties are now shown on typical concrete column to pad footing detail – refer to attached SSK1 extracted from drawing S402.

**2- The Starter bars must have 620mm embedment length in foundation.**

TMK Response

Vertical bars of columns extended to bottom reinforcement of pad footing and cogged – refer to attached SSK1 and SSK4 both extracted from drawing S402.

**3- The column ligatures should end having 50 Max. distance from bottom of the floor slab.**

TMK Response

First ligature for column is detailed as 50mm. It is additionally now noted - refer to detail on attached SSK1 and SSK 4 both extracted from drawing S402.

**4- The column cogs should be bent in the floor slab and have 100mm distance from top of slab.**

TMK Response

Not a specific requirement however columns reinforcement pushed up to underside of top bars – refer to typical concrete column/beam connection detail on SSK5 extracted from drawing S409.

**5- No reinforcement is required in the areas shown in the Figure below in drop pad section.**

TMK Response

Yes, for strength structurally not required. But helps to minimize possible shrinkage crack.

**6- The positive moment reinforcement of the slabs (bottom reinforcement) should be continued into beam 25%  $A_{st}$  from beam edge.**

TMK Response

Note added on detail - refer to typical concrete beam detail on SSK2, extracted from drawing S409

**7- Beam splices locations must be shown in drawings.**

TMK Response

If the minimum lap length is provided as specified on TMK general note – drawing 1710168-S0/C note 2.9, we structurally accept builder to work out the splice location.

**8- Reinforcement detailing for floor slabs set downs must be included in the drawings.**

TMK Response

Refer to drawing S410, S411 and S412 for set down detail. Set down detail for slab on ground is added- refer to attached SSK3, extracted from drawing S401.

**9- AS 3600 limits height to section thickness of wall panels to the value of 50. However, 1.P29 panel thickness is 150mm and does not meet the criteria. The panel thickness must be increased.**

TMK Response

Panel is restrain at every floor level with Reid Bars as detailed on drawing S405 hence documented panel thickness is structurally adequate (height by thickness ratio is less than 50)

**10- Pour strip is recommended for external wall panels to provide additional stability extending at least 1000mm from wall face and connected to floor slab using a key joint (dowel optional).**

TMK Response

The builder shall be responsible for maintaining stability of these panels during construction.

**11- Reinforcement must be welded to cast in plates on wall panels for the steel beam connections.**

TMK Response

Most of the steel beams are connected to precast panel with end plates and cast in ferrules. Since the precast panels are shop fabricated and all the cast in items are held in position and compacted, structurally welding of cast in plate is not required. On top of that if the reinforcement of precast panel is welded to cast in plate then the issue of clear cover for reo may arise.