Appendix J: Example of a lift design request form*

Lift design

This form to be completed by the relevant PCBUs.

This form would usually be filled out and sent in together with the drawings of the element to be lifted.

1. Project details

| Project name: | Name: |
|--------------------------------------|---------------|
| Job reference: | Company: |
| Date design required: DD / MM / YEAR | |
| Drawing or design number/reference: | Mobile phone: |
| | Email: |

Contact details of person requesting design

| Name: | | | |
|-----------|------|--|--|
| Company: | | | |
| Mobile ph | one: | | |
| Email: | | | |

2. Precast, tilt-up or prestress details

| | PRECAST/TILT-UP | PRESTRESS | | |
|---|---|---|--|--|
| Note: Additional reinforcing may be added to support the lifting anchors | | | | |
| Mass unit weight at time of lift | | | | |
| Designed compressive strength of concrete at time of first lift | | | | |
| Designed compressive strength of concrete at time of installation | | | | |
| Concrete cover required for lifting anchors (if different to drawing) | | | | |
| Type of lift | Edge-lift Face-lift Both edge and face | Edge-lift Face-lift Both edge and face | | |
| Orientation of panel | Edge-lift Face-lift Mid-air rotation | Edge-lift Face-lift Mid-air rotation | | |
| Location of pour | On-site Factory Civil Tilt-up Precast | On-site Factory Civil Tilt-up Precast | | |
| Type of lifting inserts (threaded, lifting hoop, foot or eye) | | | | |
| Prestress force (kiloNewtons) | | | | |
| Prestress transfer strength (MPa) | | | | |
| Position of lifting inserts (to be shown on shop drawings/construction drawings/design drawings/lifting design) | | | | |

* Form adapted with permission from Ancon.

| | PRECAST/TILT-UP | PRESTRESS | | |
|--|-----------------|-----------|--|--|
| Note: Additional reinforcing may be added to support the lifting anchors | | | | |
| Can lifting inserts be moved with the permission of the design engineer to allow a more practical design to be completed? | | | | |
| Preferred number of load-bearing anchors | | | | |

3. Rigging requirements

Number and type of cranes for demould or first lift



Preferred sling angle



5. Additional requests

Number and type of cranes to install on-site

Dynamic factor required: (eg for straight lift, or pick-and carry)

Terrain category (see Section 6.6 of these guidelines)