Concrete:
- Concrete compressive strength at 28 days $F_{cu}/F'_c = 40/32 \text{MPa}$.
- Concrete compressive strength at releasing/demolding time.
- Type of cement: OPC.

Steel:
- Normal reinforcing steel: BS4449, $F_y = 460 \text{ MPa}$.
- Prestress reinforcing steel: low relaxation 7 Wire strands complying with ASTM A416 grade 270.


GENERAL NOTES:
- All dimensions are in millimeters, all level in meters.
- Do not scale from this drawing. Only written dimensions are to be considered.
- Concrete clear cover for reinforcing steel as per ACI-318 sec (7.7.1) $F_{ci} = 0.6 \times (F_{cu}/F'_c)$.

MATERIALS:
- Extruded Polystyrene thermal Insulation board Type V Classification.
  - Density of Insulation = 32-35 kg/m$^3$.
- Thermal Insulation:
  - K (thermal conductivity) = 0.0292 W/m.k for Emirates Extruded Polystyrene (Isoboard).
  - K (thermal conductivity) = 0.0279 W/m.k for Extruded Polystyrene (Isoboard).

EXEED PRECAST
SANDWICH PANEL
PANEL THICKNESS IN cm.

EXTERNAL LAYER
CONCRETE REINFORCED
70 mm

INSULATION
EXTRUDED POLYSTYRENE
60 mm

INTERNAL LAYER
CONCRETE REINFORCED
70 mm

DATE 30/04/2012
REV NO. 0

EXP-SW-22/10

EXEED PRECAST LLC
P.O. Box 43886 Abu Dhabi, UAE
Tel.: +971 2 5508690, Fax: +971 2 5509253
Web Site: www.exeedprecast.ae
E-mail: info@exeedprecast.ae