



Dubai

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OUR PRODUCTS

Civil Engineering

- Precast Tunnel Lining Segments
- Precast Railway Sleepers and Monoblocks
- Precast Culverts, Drains and Boxes
- Precast Cable Troughs
- Precast Retaining Walls

Buildings

- Pre-stressed hollow core slabs: thickness from 150 mm to 500 mm
- Pre-stressed beams
- Insulated sandwich walls
- Solid walls
- Stairs
- Reinforced Beams
- Columns
- Boundary walls
- Single-T and Double-T slabs
- Full precast building systems

Engineering

Dubai Precast LLC has a well equipped and experienced in-house engineering department to carry out detailed design, research and development work. Close working relationships with developers, architects, engineers and contractors are being maintained to ensure the successful implementation of projects from inception to completion.

Quality Assurance

The Company is ISO 9001 certified and holds the supply of high quality components as a key priority. The facilities include a fully equipped laboratory capable of checking raw material as well as finished products. The quality control system is audited and externally verified periodically to ensure our compliance to the standards set.



DUBAI PRECAST

We build the future.

is a manufacturer of a full range of precast building components including the provision of a full range of services from conceptualization and design to installation and after sales service. Dubai Precast was established with the aim of leading the way in United Arab Emirates toward highly industrialized construction practices.



PROFILE

The Company

Dubai Precast LLC is a manufacturing company established in April 2006 in Jebel Ali, Dubai with a paid-up capital of AED 100 million.

Shareholders

Ascorp Holdings PJSC (Abu Dhabi, UAE) - 55%
Eastern Pretech Pte Ltd (Singapore) - 45%

Visit : www.ascorpholdings.com

Visit : www.easternpretech.com.sg

Facilities

Dubai Precast has two factories, one in Jebel Ali, Dubai and one in Musaffah, Abu Dhabi. Both plants are equipped with the latest technology and state-of-the-art equipment for the production of Precast Concrete components.

The total annual production capacity consists of:

- 1,500,000 m² of Precast Prestressed Hollowcore Slabs and
- 250,000 m³ of Reinforced Concrete products: panels, slabs, beams, columns, staircases etc.



Jebel Ali Factory, Dubai



Musaffah Factory, Abu Dhabi

PRECAST CONCRETE COMPONENTS FOR CIVIL ENGINEERING PROJECTS

Bridge Beams and Girders

Precast Beams are commonly used for long span bridge and girder structures throughout the world. The beams are either pre-tensioned or post-tensioned as per the Engineer's detail. The beams are mainly produced in our factory facility, but in case the components are too big to manufacture, they can be produced at the project site.



Precast Tunnel Lining Segments

Precast Tunnel Lining is commonly used for large diameter tunnels throughout the world. The manufacture of the large, heavy components to extremely tight tolerances is a demanding task. The expertise we have gained in South East Asia on tunneling jobs ensures we are capable.



Precast Railway Sleepers

Precast Railway Sleepers are another highly demanding precast component due to extremely high tolerances and quality requirements. As our group is an approved supplier to railway authorities in South East Asia, our technical expertise will ensure we can produce sleepers according to any international standard or requirement.



PRECAST CONCRETE COMPONENTS FOR BUILDINGS

Frame Systems

Precast frame systems are often used for buildings where open spaces are required, ie commercial buildings, car parking structures and office buildings. These commonly consist of columns, beams, hollow core slabs flooring as well as full precast staircases.



Load bearing wall systems

Load bearing wall systems are used most commonly in buildings where the room sizes are small. Typical such buildings are low-rise accommodation buildings, ie villas, hostel buildings and apartment buildings. External walls of the buildings can be insulated. All internal load-bearing walls are solid walls while all non load-bearing walls can either be precast or done with other systems as preferred.

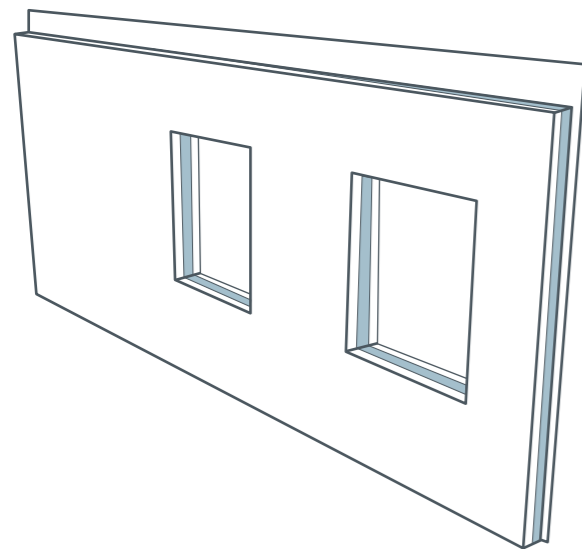


INSULATED WALL SYSTEM

Due to the harsh summer temperatures, the cooling of buildings accounts for approximately 60% of the consumption of peak power load in this region. In an effort to reduce energy consumption, the insulation of external walls of buildings becomes critically important. With fully insulated precast sandwich wall systems, the full thermal isolation of the internal core of the building can be achieved.

The Structure

Insulated precast concrete walls consist of two concrete layers joined by stainless steel connectors with an insulating layer between them. The insulation layer is continuous over the entire surface area without any thermal bridges and its thickness is determined by the insulation value required. The thinner external layer can be made in a variety of concrete colors and surface treatments while the internal, often load-bearing layer is normal grey concrete.



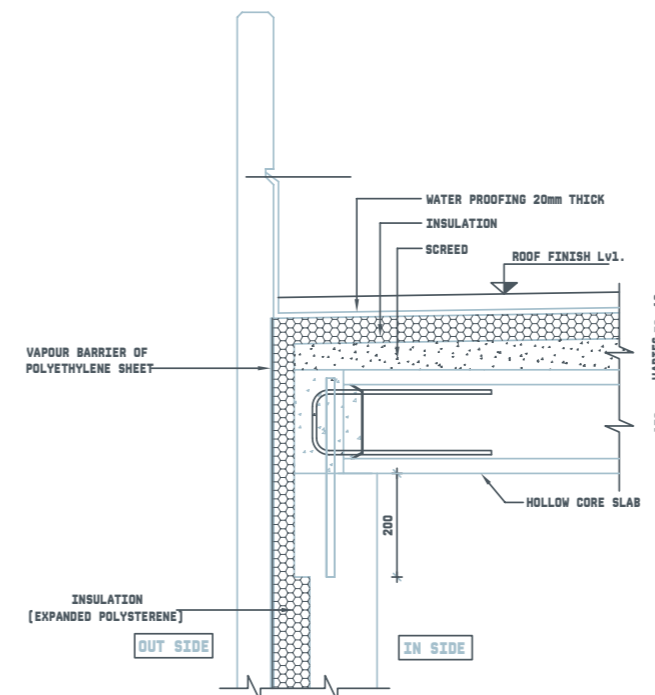
Insulation of walls according to Dubai Government Regulations (max U-value of 0.57 W/m²K) reduces both construction cost and operating cost. The operating cost is significantly lower by 76%. The operating cost saving would therefore result in a payback period of 6 years in UAE.

- The Developer benefits through reduced initial investment for the cooling systems
- The Owner / Resident benefit through reduced electricity consumption
- The Country benefits through a reduced Carbon Footprint

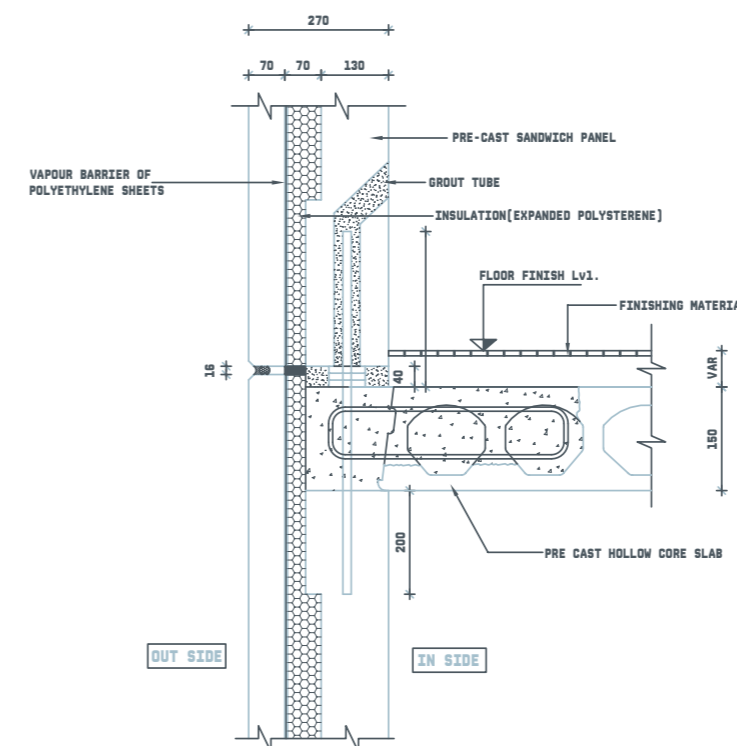


COMPARISON OF WALL SYSTEMS:	Un-insulated wall	Insulated wall
Annual Cooling Energy (Ton-Hr/Yr/m ² of wall)	59.2	13.9
Operating Cost (Dh/Year/m ² of wall)	13.6	3.2

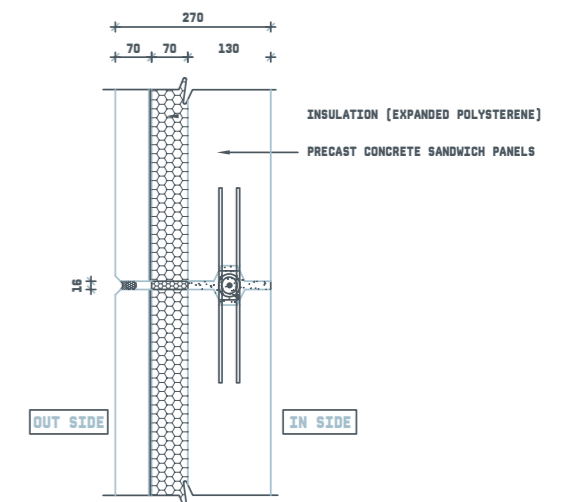
TYPICAL CONNECTION DETAILS FOR PRECAST INSULATED WALLS



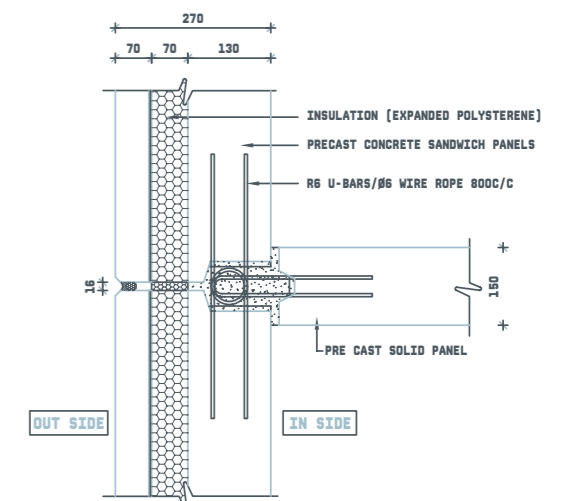
CONNECTION DETAIL CDV-04



CONNECTION DETAIL - CDV-03



CONNECTION DETAIL CDH-01



CONNECTION DETAIL CDH-02