PRESTRESSED WALL PANELS

Designed and engineered to work

Wall Panel Solutions
All prestressed concrete wall panels are designed using the highest standards of engineering technology by our in-house design team.

We ensure at all times that the highest levels of client consultation are provided to enable us to ascertain your exact needs before our engineers and design team begin working on your behalf.
UB/UC TYPICAL
CRANKED PLATE & BOLT CONNECTION
BY O'REILLY CONCRETE

MASTIC SEALANT

140mm WIDE O'REILLY WALL PANEL

UB/UC TYPICAL

CRANKED PLATE & BOLT CONNECTION TO BE SUPPLIED
BY O'REILLY CONCRETE

PHOTO TOP RIGHT - MCCARE BUILDERS - INDUSTRIAL UNITS ASHBORNE BUSINESS PARK, ASHBORNE, CO. MEATH
Section View

TYPICAL SECTION THROUGH BUILDING

PHOTO TOP LEFT: LORRAC DEVELOPMENTS - INDUSTRIAL UNITS, DULEEK BUSINESS PARK, DULEEK, CO. MEATH.
**General Applications**

Wall panels are a construction system widely used throughout Europe. The units are prestressed and so this allows you maximum strength with minimum wall thickness.

Wall panels have a wide range of applications and are particularly suitable for industrial units, storage units, bulk grain stores, general warehousing, earth retaining walls, compost storage, etc.

Our wall panels can be designed to suit your exact needs. The walls may be built horizontally or vertically depending on the job. Four different sizes are available, 1000mm/1200mm/1500mm/2400mm.

**Interlinking Joints**

The edge detail of each unit is designed to form a tongue and groove joint. This joint not only locks units together during construction, but also acts as a load transfer to spread loads between all units in a wall.

This feature is particularly useful in dissipating impact loads from vehicle collision. The joints are also designed to accept a Polyurethane Mastic Sealant to provide a watertight seal.

**Benefits for Users**

Time is money! The most obvious benefit for developers is speed of erection. O'Reilly Concrete can erect as much as 400sqm. of walls in one day. The system eliminates the need for wet trades, and so improves production schedule times.

In comparison to traditional construction methods O'REILLY Wall Panels provide a more cost effective solution.

**Fire Retardation**

Concrete is a non-combustible material therefore O'REILLY Wall Panels provide a higher degree of fire resistance than most other building materials.

---

**Wall Panel Solutions**

PHOTO TOP LEFT TO RIGHT -
E: ELLIOTT RETAIL UNITS, BLACKWATER BUSINESS PARK, NAVAN, CO. MEATH; DIMPCO INDUSTRIAL UNITS IN SWORDS, CO. DUBLIN.
O’REILLY Concrete is I.S. EN ISO 9001:2000 approved for prestress wall production. Quality and consistency are assured by continuous implementation of this quality control system.

We have our own laboratory at our Head Office in Kingscourt, County Cavan, where optimum quality of product is ensured by regular testing.

Quality Control
All equipment is calibrated externally with appropriate certification and supporting documentation is available for inspection on request. Concrete sample cubes are made daily and are cured in the prestress beds under identical conditions to the wall panels.

High Strength Design
High Strength is built into all O’REILLY wall panels. The standard units are cast from 140mm thick, high strength engineering grade concrete. The reinforcing is designed to match the intended loads utilising low relaxation, 9.3mm indented prestressing strands. The number of reinforcing strands and their position within the section, give the characteristic performance of each unit.

The concrete used in the manufacturing process has been designed in accordance with BS 8110. Typical strength at de-moulding is 30N and at service is 50N.

O’Reilly Concrete
O’REILLY Concrete has been in business for the last 50 years. Our main office is in Kingscourt, Co. Cavan. We also have concrete production facilities at Taghart, Bailieborough, Co. Cavan and at Feachoe, Carrickmacross, Co. Monaghan.

O’REILLY Concrete manufacture Precast Walls, Prestressed Floors, Concrete Stairs, Superstructures, Precast Attenuation Tanks, L Walls, Retaining Walls and a wide range of Precast Products.

Our company has achieved I.S. EN ISO 9001:2002 approval. Our management and staff have a renowned commitment for quality and service. O’REILLY Concrete is a registered name of O’REILLY Bros. Ltd.

www.oreilleyconcrete.com