Concrete:
Compressive strength \( \sigma_{ck} = 50 \text{ N/mm}^2 \)

Reinforcing steel:
Ultimate tensile strength \( \sigma_{tk} = 600 \text{ N/mm}^2 \)
Tensile yield strength \( \sigma_{yk} = 500 \text{ N/mm}^2 \)

Prestressing steel:
Ultimate tensile strength \( \sigma_{pk} = 1770 \text{ N/mm}^2 \)
Tensile 0.1% proof-stress \( \sigma_{p0.1k} = 1557 \text{ N/mm}^2 \)

For geometrical data, tolerance class, detailing, mechanical strength, fire resistance, acoustic insulation parameters, thermal insulation parameters and durability see the design specifications

Design Specification: Precast Structures Design Specification

Order Code: To client order
# DECLARATION OF PERFORMANCE

<table>
<thead>
<tr>
<th><strong>Trade Name:</strong></th>
<th>O'Reilly Concrete</th>
</tr>
</thead>
</table>
| **Place of Manufacture:** | Larchfield, Kingscourt, Co. Cavan  
Ballyhoe, Carrickmacross, Co. Monaghan |
| **Product Type:** | Wall Elements – Prestressed Walls |
| **Unique Identification Code:** | PC – Prestressed Wall - 95 |
| **Intended Use:** | Partition and agricultural walls – non load bearing |
| **System of Assessment:** | System 2+ |
| **Notified Certification Body:** | SGS UK Ltd  
Unit 202b Worle Parkway  
Weston-super-Mare  
Somerset BS22 6WA |
| **Notified Body Number:** | 0120 |

## DECLARED PERFORMANCE:

<table>
<thead>
<tr>
<th>Essential Characteristics</th>
<th>Performance</th>
<th>Harmonised Technical Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressive Strength</td>
<td>50N/mm²</td>
<td>EN 14992:2007 + A1:2012</td>
</tr>
</tbody>
</table>

**Reinforcing Steel:**

- Ultimate tensile strength, \( f_{\text{tk}} \) 500N/mm²
- Tensile yield strength, \( f_{\text{yk}} \) 600N/mm²

**Prestressing Steel:**

- Ultimate tensile strength, \( f_{\text{pk}} \) 1770N/mm²
- Tensile 0.1% proof-stress, \( f_{\text{p0.1k}} \) 1557N/mm²

Mechanical Strength (by calculation)  
Refer to Design Specification

Resistance to fire (for load bearing capacity)  
Refer to Design Specification

Reaction to fire  
Class A.1

Acoustical insulation  
NPD

Thermal resistance  
Refer to Design Specification

Detailing  
Refer to Detailed Drawings and technical documentation

Durability  
Refer to Design Specification

Signed on Behalf of Manufacturer  
Barry O'Reilly

Position  
Managing Director  
20 August 2013