



## Precast – The Lizard Lifeboat Station, Cornwall



### Project details:

Construction of a state-of-the-art Royal National Lifeboat Institution (RNLI) station has begun at the Lizard, ready for the arrival of its Tamar-class all-weather lifeboat in 2011.

The Lizard lifeboat station is located on a 'tight cove on the Lizard peninsula' on the Cornish coast, one of the most remote and rugged settings in the whole of Great Britain, – at the foot of a 45 metre cliff and England's most southerly point and one of the busiest shipping lanes in the world. More than 400 ships per day move up and down the channel and past Lizard Point.

There was no choice but to build at Kilcobben Cove where the lifeboat is provided enough shelter to be able to launch in almost all conditions.'

The new building is constructed on the same site as the former lifeboat house that was constructed during the 1960s. The building will reuse the old substructure. It has a slipway containing 27 piles. Reinforced Lytag<sup>®</sup> LWA precast concrete slipway transoms (cross head beams spanning between pairs of the circular steel piles) were installed. The transoms brace the pile heads and provided a surface to which to fix the steel-framed slipway bays. Lytag<sup>®</sup> LWA material was used to produce LC45/50 precast concrete for the transoms suitable for use in a "Marine Environment". The reduced unit weight also aided crane lifting requirements. The transoms were manufactured off-site by Cornish Concrete of Truro.

### Project:

The Lizard Lifeboat Station re-build, Cornwall

### Date:

2010 - 2011

### Client:

RNLI

### Architect:

Poynton Bradbury Wynter Cole

### Structural Engineer:

Royal Haskoning

### Main Contractor:

BAM Nuttall John Martin

### Sub-Contractor:

Cornish Concrete Products Ltd.

### Precast supplier:

Cornish Concrete Products Ltd.

