

AN ROINN TALMHAÍOCHTA, BIA AGUS MARA
DEPARTMENT OF AGRICULTURE, FOOD AND THE MARINE
August 2017

Procedure for inclusion of precast concrete beams, slabs and hollow core slabs on the
on the “Accepted Slat List” of the Department of Agriculture, Food and the Marine
for use in grant-aided buildings

Introduction

This document sets out the procedure and requirements for inclusion on the Department of Agriculture, Food and the Marine’s “Accepted Concrete Slat List” for precast concrete beams, solid slabs, hollow core slabs and precast cubicle beds.

For precast concrete beams, solid slabs, hollow core slabs and precast cubicle beds to be acceptable in grant-aided buildings, the company manufacturing the beam, solid slab, hollow core slab or precast cubicle bed must be listed on the “Accepted Concrete Slat List” of the Department of Agriculture, Food and the Marine. The list will include both the accepted company’s details and the size of beam, slab or cubicle bed that is accepted for use in grant-aided buildings, amongst other details.

General:

Concrete beams, solid slabs, hollow core slabs and precast cubicle beds shall be designed in accordance with IS EN 13369:2013 and IS EN 1992, as appropriate. Solid slabs and hollow core slabs shall be designed to, at least, the same design life, loadings, concrete cover and tolerances as heavy duty cattle slats. The design of the concrete used in the production of concrete beams, solid slabs and hollow core slabs shall be, at least, the same as for heavy duty cattle slats. The design of precast cubicle beds shall be at least the same as for normal cattle slats where they are self-supporting, or designed so that they can be safely moved if fully supported.

Concrete beams (lintels) that span up to 4.5 metres and are designed to support masonry walls shall be certified to IS EN 845-2:2013.

Concrete beams that are designed to carry mass concrete walls, slabs, slats, or masonry walls spanning more than 4.5 metres, shall be certified to IS EN 13225:2013.

Precast concrete solid slabs and precast cubicle beds shall be certified in accordance with IS EN 13225:2013.

Precast hollow core slabs shall be certified in accordance with IS EN 1168:2005+ A3:2011.

For manhole slabs please see “Procedure for companies wishing to produce concrete cattle or pig slats and be listed on the relevant “Accepted Concrete Slat List” of the Department of Agriculture, Food and the Marine”.

Required Documentation:

To gain acceptance onto the Accepted Concrete Slat List, the precast concrete company must forward the following documentation to the Department of Agriculture, Food and the Marine:

1. The certificate of conformity to EN 845-2:2013 from the Notified body (e.g. NSAI) for beams to carry masonry walls.

2. The certificate of conformity to EN 13225:2013 from the Notified body (e.g. NSAI) for solid slabs, precast cubicle beds and beams to carry mass concrete walls.
3. The certificate of conformity to EN 1168:2005+A3:2011 from the Notified body (e.g. NSAI) for hollow core slabs.
4. A full list of beam lengths intended to be included on the “Accepted Concrete Slat List” (both length and widths). Dimensions to be supplied in metric measurements.
5. A full list of the solid slab sizes intended to be included on the “Accepted Concrete Slat List” (both length and widths). Dimensions to be supplied in metric measurements.
6. A full list of the precast cubicle bed sizes intended to be included on the “Accepted Concrete Slat List” (including length, widths heel height and head height). Dimensions to be supplied in metric measurements.
7. Details of the concrete specification used for the manufacture of the precast elements.
8. A full list of the hollow core slab sizes intended to be included on the “Accepted Concrete Slat List” (both length and widths). Dimensions to be supplied in metric measurements.
9. The design load capacity for each size of beam, solid slab, hollow core slab and precast cubicle bed.
10. A copy of the Declaration of Performance for each beam length, solid slab and hollow core slab sizes to be included on the Accepted concrete slat list. This declaration of Performance must include the load capacity of the precast element.
11. A sample copy of the CE certificate to be issued with each slat size.
12. Details of the markings either on the precast element or on the paper work supplied with the precast element.
13. If the concrete used in the manufacture of the precast elements is produced by a third party, the name of the concrete supplier and a copy of the concrete supplier’s current EN 206-1:2002 registration certificate (all delivery dockets must be retained as proof of use of correctly certified concrete.)

The information is to be supplied to:

Engineering Unit, Nitrates, Biodiversity and Engineering Division, Department of Agriculture, Food and the Marine, Pavilion A, Grattan Business Centre, Dublin Road, Portlaoise, Co. Laois, Ireland.

Duration of Approval on Accepted Concrete Slat List

This acceptance will last for 5 years. After a period of 5 years on the list, it will be required for companies to undergo a renewal process which will include the resubmission of the required data and evidence of having remained certified to the relevant standards for the previous 5 years and evidence of having produced the product to the agreed standard. If certification to the required standard is allowed to

lapse, or is withdrawn, at any time, then the acceptance by the Department of Agriculture, Food and the Marine also automatically lapses.