



Technical Guidance for Roadstone Concrete Blocks & Masonry Units

Roadstone Ltd has a long and established reputation as the principle supplier of high quality concrete blocks in Ireland. Our extensive range of block exceeds the standard specifications in terms of physical strength and durability and is manufactured with the highest quality aggregates that are free from any form of deleterious materials.

1. Compliance with Specifications

Roadstone manufactures all concrete blocks in accordance with IS EN 771 Part 3: 2011-*Aggregate concrete masonry units* and the Irish Building Regulations. IS EN 771-3 is written as a performance standard which means that all requirements are based on the finished product.

The test requirements for concrete blocks include:

- Dimensions
- Density
- Compressive Strength
- Configuration
- Thermal Properties
- Durability
- Water Absorption
- Water vapour permeability
- Moisture movement
- Reaction to fire
- Shear bond strength
- Flexural bond strength
- Classification
- Marking

Values or categories for each of the above characteristics are declared on the relevant Declaration of Performance (DOP) for all Roadstone concrete blocks and masonry units. These are available on request along with support and advice from our technical team.

2. Aggregate Specification

The aggregates used to manufacture our concrete blocks units are manufactured in accordance with SR 16 and IS EN 12620 (Aggregates for Concrete) which specifies chemical testing requirements that are equivalent to Annex E of SR 21. Our aggregate sources are also independently assessed by an independent professional geologist and declared to be suitable for use.

2. CE Marking Requirements

From July 2013, CE marking of construction products covered by harmonised European Standards has been mandatory with a legal requirement to affix a CE mark to such construction products. Each harmonised European standard specifies an appropriate level of attestation of conformity which outlines the obligations of the manufacturer including those for third party assessment. Roadstone concrete blocks are CE marked with system 2+ attestation of conformity applied in all cases, as specified. System 2+ requires that the manufacturer's production process is independently audited and certified by a notified body. Roadstone's block manufacturing systems and products are independently audited and certified by the NSAI to IS EN 771 Part 3: 2011 and ISO 9001:2000.

3. Roadstone Accreditations

At Roadstone we are committed to the manufacture and delivery of the highest quality concrete blocks. All Roadstone block manufacturing facilities hold relevant and independently assessed management system accreditations to confirm our commitment to producing high quality and sustainable products. Our NSAI awarded certifications include:

- Construction Products Regulation: CE Marking
- I.S. EN ISO 9001: Quality Management Systems
- I.S. EN ISO 14001: Environmental Management Systems
- I.S. EN ISO 50001: Energy Management Systems
- ISO 17025: General Requirements for the competence of testing and calibration laboratories (INAB)

"For over 20 years Roadstone has been an industry leader in the adoption and implementation of NSAI verified managements systems which support the Company's commitment to product quality and sustainability"

Fergal O'Byrne
Head – Business Excellence
Certification
NSAI

If you should require any further technical advice or support please contact us at 01-4041 200.