



**NSAI**  
Standards

Irish Standard  
I.S. 888:2016

# Code of Practice for the procurement and use of unbound granular fill hardcore material for use under concrete floors

## I.S. 888:2016

<i>Incorporating amendments/corrigenda issued since publication:</i>		Published	Withdrawn

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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<b>NSAI</b> 1 Swift Square, Northwood, Santry Dublin 9		<b>Sales:</b> T +353 1 857 6730 F +353 1 857 6729 W standards.ie	
Údarás um Chaighdeáin Náisiúnta na hÉireann			

DECLARATION  
OF  
SPECIFICATION  
CODE OF PRACTICE FOR THE PROCUREMENT AND USE OF UNBOUND GRANULAR FILL  
HARDCORE MATERIAL FOR USE UNDER CONCRETE FLOORS

AS

THE IRISH STANDARD SPECIFICATION FOR

CODE OF PRACTICE FOR THE PROCUREMENT AND USE OF UNBOUND GRANULAR FILL  
HARDCORE MATERIAL FOR USE UNDER CONCRETE FLOORS

NSAI in exercise of the power conferred by section 16 (5) of the National Standards Authority of Ireland Act, 1996 (No. 28 of 1996) and with the consent of the Minister for Jobs, Enterprise and Innovation, hereby declare as follows:

1. This instrument may be cited as the Standard Specification (Code of Practice for the procurement and use of unbound granular fill hardcore material for use under concrete floors) Declaration, 2016.
2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Code of Practice for the procurement and use of unbound granular fill hardcore material for use under concrete floors.  
(2) The said standard specification may be cited as Irish Standard 888:2016 or as I.S. 888:2016.

# Contents

	Page
<b>DECLARATION.....</b>	<b>1</b>
<b>Foreword.....</b>	<b>3</b>
<b>Introduction .....</b>	<b>4</b>
<b>1 Scope .....</b>	<b>5</b>
<b>2 Normative references .....</b>	<b>5</b>
<b>3 Terms and definitions .....</b>	<b>5</b>
<b>4 Ordering, delivery and receipt on site .....</b>	<b>6</b>
4.1 Specification.....	6
4.2 Ordering.....	6
4.3 Methods of supply .....	6
4.4 Receipt of materials on site .....	7
4.4.1 General.....	7
4.4.2 Visual inspection .....	7
4.5 Sample testing .....	7
4.6 Action in the event of non-conformity.....	7
<b>5 Placing and compaction of unbound granular fill materials .....</b>	<b>7</b>
5.1 Materials .....	7
5.2 Placing .....	7
5.3 Layer thickness.....	8
5.3.1 T1 Struc and T2 Perm materials .....	8
5.3.2 T0 Struc material.....	8
5.3.3 T3 Blind material .....	8
5.4 Compaction .....	8
5.4.1 Small-floor slab construction .....	8
5.4.2 Larger floor slab construction.....	8
5.5 Testing .....	9
<b>6 Traceability and record management .....</b>	<b>11</b>
<b>Annex A (informative) Summary of supply chain responsibilities - ordering to receipt on construction site .....</b>	<b>13</b>
<b>Annex B (informative) Compaction requirements for unbound mixtures .....</b>	<b>17</b>

## **Foreword**

This Irish Standard has been prepared by the Roads Standards Committee, Aggregates Panel, the secretariat of which is held by NSAI.

It specifies requirements for post manufacturing operations of unbound granular fill (hardcore) for use under concrete floors and footpaths such as procurement, haulage, delivery and receipt, storage and handling, placing, traceability and record management, with the aim of improving the chain of custody within the supply chain and ensuring the complete traceability of hardcore suitable for this particular end-use, from the original manufacturer and source to the location where it is incorporated into the works.

**Compliance with an Irish Standard does not of itself confer immunity from legal obligations**

## **Acknowledgements**

The National Standards Authority of Ireland wishes to acknowledge the adaptation of some requirements from the National Roads Authority (NRA) Manual of Contract Documents for Road Works, Volume 1 Specification for Road Works, incorporated into this Irish Standard.

NOTE      The NRA now the TII – Transport Infrastructure Ireland.

## **I.S. 888:2016**

### **Introduction**

The Report of the Pyrite Panel (June 2012), commissioned by the Minister of the Environment, Community and Local Government, (Recommendation 15) recommends, inter alia, that in light of the knowledge and experience gained since 2007 on pyrite a more detailed and specific testing, certification and traceability regime be put in place for hardcore material for use in buildings and recommends that a standalone specification for hardcore be developed that covers the performance of the material and the testing requirements at various stages within the supply chain, and ensures the traceability of hardcore.

S.R. 21:2014 provides national guidance on the use of I.S. EN 13242:2002+A1:2007 and other aggregate standards. S.R. 21 was revised and published in 2014. The recommendations revised include the performance requirements, initial type testing, procedures for factory production control (including the on-going testing and traceability regimes) and the certification of unbound granular fill (hardcore) for use under concrete floors and footpaths, based on I.S. EN 13242:2002+A1:2007 for this particular end-use and upon experience in use.

## Schedule

### Code of Practice for the procurement and use of unbound granular fill hardcore material for use under concrete floors

#### 1 Scope

This Irish Standard specifies requirements for the procurement and use of unbound granular fill (hardcore) for use under concrete floors and footpaths, for post manufacturing operations such as procurement, haulage, delivery and receipt, storage and handling, placing, traceability and record management from the original manufacturer and source to the location where it is incorporated into the works.

#### 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies:

I.S. EN 13242, *Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction*

S.R. 21 *Guidance on the use of I.S. EN 13242 - Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction*

#### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply

**inspection**

conformity evaluation by observation and judgement

**intermediary**

any party forming part of the chain of custody between the manufacturer and the builder e.g., merchant and / or groundworks subcontractor

Note 1 to entry: For clarity, a haulage operator contracted by the manufacturer or builder exclusively to transport the hardcore from source to end-use location is not considered an intermediary; - for more information.

**manufacturer**

original manufacturer of the hardcore

**Method Statement**

documentation describing the methods and procedures to be used to perform the work

**point of delivery**

case A where there is no delivery contract with the manufacturer: collection point at the source quarry

or

case B where there is a delivery contract with the manufacturer: discharge location (site) for the delivered hardcore

**project specification**

project-specific document describing the requirements applicable for the particular project

**source**

individual quarry

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