Declaration of Performance

Hanlon Concrete Products Ltd.
Lowtown, Robertstown, Naas, Co Kildare

13

1029 - CPR – GB19/964095

Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction - SR21 T1 Struc

***Table 1 – Product Type and identification*:**

Name / Identification	Category to I.S. EN 13242:2002 +A1:2007
SR 21 T1 Struc	T1 Struc (0/31,5)

Intended Use: Unbound granular fill for use under concrete floors and footpaths.

Manufacturer: Hanlon Concrete Products Ltd.
Lowtown, Roberstown, Naas, Co Kildare.

System of AVCP: System 2+

Harmonized Standards:

- I.S. EN 13242:2002 +A1:2007 – Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction
- S.R. 21:2014+A1:2016 - Guidance on the use of I.S. EN 13242:2002 +A1:2007 – Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction

Declared Performance: The declared essential characteristics and performance of each product is as follows:

Table 2 – Essential Characteristics and Performance:

Essential Characteristics	I.S. EN 13242:2002 +A1:2007
Particle shape	Fl_{35}
Grading / Particle size and category	T1 Struc (0/31,5)
Fines content	f_7
Los Angeles Coefficient (Resistance to Fragmentation)	LA_{30}
Water Absorption	≤2
Particle Density	2.75 (Mg/m^3) (Apparent particle density)
Magnesium Sulfate Soundness	MS_{18}
Acid-Soluble Sulfate Content	$AS_{0.2}$
Total Sulfur (Ts)	≤0.1
Geological examination	Mudrock <10%
Petrographic Assessment (Thin Section) (Only for 0.1% < Ts < 1%)	Ts ≤0.1

Signed: *Fergus O'Hara.* Date: *24th July 2024*

CE

1029

Hanlon Concrete Products Ltd.
Lowtown, Roberstown, Naas, Co Kildare

13

1029 - CPR – GB19/964095

I.S. EN 13242:2002 +A1:2007

Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction

SR 21 T1 STRUC - Unbound granular fill for use under concrete floors and footpaths

Particle Shape	Fl_{35}
Particle Size and Category	T1 Struc (0/31,5)
Particle Density	
Apparent particle density	2.75 Mg/m³
Saturated and surface-dried	2.71 Mg/m³
Oven-dried	2.68 Mg/m³
Cleanliness	
Fines Content	f≤7
Shell Content	N/A (Non marine source)
Methylene Blue	≤1
Percentage of crushed particles	NPD (Not required for crushed rock)
Resistance to fragmentation	LA_{30}
Volume stability	NPD
Water Absorption	<2%
Composition/Content	
Classification of coarse recycled aggregate	Non recycled material
Chlorides	<0.01%
Acid Soluble Sulfates	$AS_{0,2}$
Total Sulfur	$S_{0.1}$
Setting hardening	NPD
Resistance to attrition	NPD
Release of heavy metals by leaching	NPD
Release of other dangerous substances	None detected
Durability against freeze-thaw	
Magnesium Sulfate Soundness	MS_{18}

Certificate of Conformity of the Factory Production Control

1029 – CPR – GB19/964095

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

Aggregates for Unbound and Hydraulically Bound Materials for Use in Civil Engineering Work and Road Construction, described in annex.

placed on the market under the name or trade mark of
Hanlon Concrete Products Ltd
Lowtown, Robertstown, Naas, Co. Kildare, Ireland

and produced in the manufacturing plant
Hanlon Concrete Products Ltd
Lowtown, Robertstown, Naas, Co. Kildare, Ireland

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s)

EN 13242:2002+A1:2007

under system 2+ for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product

This certificate is valid from 24 August 2025 until 23 August 2028,
and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Issue 3. Certified with SGS since 23 August 2013

Authorised by	Authorised by
Luis Neves	Luis Santos
Certification Management	Certification Management

SGS ICS – Serviços Internacionais de Certificação, Lda, Notified Body 1029
Polo Tecnológico de Lisboa, Rua Cesina Adães Bermudes, Lote 11, Nº 1, 1600-604 Lisboa – Portugal
t +351 217104200 Email: pt.info@sgs.com - www.sgs.pt

IPAC acreditação
C0001
ISO/IEC 17065
Produtos

This document is an authentic electronic certificate for Client' business purposes use only. Printed version of the electronic certificate are permitted and will be considered as a copy. This document is issued by the Company subject to SGS General Conditions of certification services available on Terms and Conditions | SGS. Attention is drawn to the limitation of liability, indemnification and jurisdictional clauses contained therein. This document is copyright protected and any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful.

Certificate of Conformity of the Factory Production Control
1029 – CPR – GB19/964095

Annex 1

Product(s): Aggregates for Unbound and Hydraulically Bound Materials for Use in Civil Engineering Work and Road Construction.

Aggregate Designation (d/D*) *d and D in mm
T0 Struc (0/125)
T1 Struc (0/31.5)
T2 Perm (4/40)
T3 Blind (0/4)

IPAC acreditação
C0001
ISO/IEC 17065
Produtos

This document is an authentic electronic certificate for Client' business purposes use only. Printed version of the electronic certificate are permitted and will be considered as a copy. This document is issued by the Company subject to SGS General Conditions of certification services available on Terms and Conditions | SGS. Attention is drawn to the limitation of liability, indemnification and jurisdictional clauses contained therein. This document is copyright protected and any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful.