Rosslyn Hill Unitarian Chapel 3 Pilgrims Place London NW3 1NG





Discharge of Listed Building Consent (2021/5336/L)

Condition 4

March 2022

The replacement slates are proposed as Cembrit Glendyne natural slate, of their best roofing slate specification, free from pyrite and metallic inclusions. The slates would be 508mm long x 254mm wide, and fixed with copper clout nails. These slates are of a blue/grey colour finish with vertical grain, as depicted on the image and photographs of the physical samples received.





/....4

March 2022



/.....5

Technical Information from Cembrit

CEMBRIT

Declaration of Performance IBIS 2578-r1 June 2018

1. Unique identification code of the product type:

Natural Roofing Slate

2. Type, Batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4) of the CPR:

Cembrit Glendyne Natural Roofing Slate

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

Slate & stone products for discontinuous roofing & cladding

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under article **11**(5):

Cembrit Ltd 2 Veridion Way, Erith DA18 4AL, UK Registered No. GB 1968377

5. Where applicable, name and contact of the authorised representative whose mandate covers the task specified in Article 12(2):

Not Applicable

6. System of assessment and verification of constancy of performance of the construction product as set out in CPR Annex V:

System 4

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

BS EN 12326-1

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued

Not Applicable

9. The Accompanying Commercial Document Part 1

Cembrit Glendyne Natural Roofing Slate						
EN 12326-1:2014						
Number of this commercial document IBIS 2578-r1 Date of issue			ue 14	14.06.2018		
Commercial document issued by; Cemb	rit Ltd., 2 Veridi	on Way, Erith I	DA18 4AL, UK			
Leastion of the mine or querry 2 we de	a Càdraa Saint	Mara du Las L	ang Québaa (Cana			
Location of the mine of quarty. 2, rue de	s Ceures, Saint-	Marc-uu-Lac-L	ong, Quebec (Cana	ida) GOL 110		
This document records the conformity meaning of the test results and the requi EN 12326-1:2014 & EN12326-2:2011	of the product d rements of EN 12	escribed below 2326-1:2014. T	and is incomplete he tests referred to a	without the explai and the criteria are	nation of the contained in	
Date of sampling 11.04.2018			Date of testir	ng 18.04.2018		
Product description and commercial name	Ce	mbrit Glendyn	e Natural Roofing S	Slate		
		-	·		Conformity	
Relation between bedding and cleavage						
1 Dimensional tolerances:						
Format	Rectangular					
Deviation from declared length	±1mm				Complies	
Deviation from declared width	d width ±1mm					
Deviation from squareness	<1%				Complies	
Deviation from straightness of edges	<1 %			Complies		
Slate type for deviation from flatness	Very flat	Flat	Non-flat	Special		
Deviation from flatness		X				
2 Thickness:		4.7 mm				
Nominal thickness and variation of 4-5 mm ±35% individual thickness against nominal thickness						
3 Strength:						
Characteristic MoR	Transverse	47 MPa	Longitudinal	69 MPa		
Mean MOR	Transverse	60 Mpa	Longitudinal	76 MPa		
4 Water absorption 0.3 % Code W1(≤0,6)					Complies	
5 Freeze thaw:	reeze thaw: Wean modulus of rupture values, transverse and longitudinal, before and after the freeze/thaw test (if W1(>0,6)), or not required				NR	

March	2022
111011011	

6 Thermal cycle test:		Code T1	Complies
7 Carbonate content		0.3 %	Complies
8 Sulfur dioxide	□ 20% apparent calcium carbonate:	Code S1	Complies
exposure tests: > 2 calciu	> 20% apparent calcium carbonate:	Depth of softening mm	NR
9 Non-carbonate carbon content		0.5 %	Complies
10 External fire p	ternal fire performance Deemed to satisfy		Complies
11 Reaction to fire		Deemed to satisfy class A1	Complies
12 Release of dangerous substances		None in conditions of use as roofing or external cladding	NR

10. The performance of the product identified in points 1 & 2 is in conformity with the declared point

9.

The declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer: Cembrit Ltd., 2 Veridion Way, Erith DA18 4AL, UK

Date: 14th June 2018

(signature) Millilden.

Philip Wilden. Technical Manager

/....8

March 2022

The Accompanying Commercial Document Part 2

Date of sampling and to	esting	If more than one date is applicable to sampling or testing they should be indicated against the individual test results					
Product description		Slate for roofing and external cladding or carbonate slate for roofing and external cladding					
		Slate type and origin					
1 Dimensional tolerances.							
Length and width			Maximum deviation 🛛 5 mm				
Deviation from squareness			Maximum deviation				
Deviation from straightness of edges		Slate length					
		Slate length > 500 mm Permitted deviation □ 1 % of the length					
			Slate type	Maximum deviation length.	n from flatness as a % of the slate		
Flatness: The limits of defined for four types of	deviation from f	latness are elled edges	Very flat	< 0,9			
shall be applied to the deviation from flatness	e convex face. in excess of the l	Slates with imit may be	Flat	< 1,0			
used for special applica	ations.	,	Normal	< 1,5			
			Non-flat	< 2,0			
2 Thickness: The basic nominal thickness is determined as a function of the bending strength using the equations given in 3 below, local climate conditions and traditional construction techniques. The basic nominal thickness is increased in relation to the slate's performance in the appropriate sulfur dioxide test (if required) as shown in 7 & 8 below.							
3 Strength: Longitudinal and transverse bending strength and modulus of rupture: There is no limit for bending strength or modulus. However the basic nominal thickness is determined as a function of the bend strength using the equations given below, local climate conditions and traditional construction techniques.							
Where e_{cl} is the longitudinal thickness, in millimetres (mm);							
$e_l \square$ I X . e_{ct} is the transverse thickness, in							
$\sqrt{R_{cl}}$	millimetre	s (mm); / is	the length of the	slate, in			
	millimetre	s (mm);					
and b is the width of the slate, in millimetres (mm); R_i is the characteristic longitudinal modulus of rupture in mega Pascals (MPa);							
$e \prod Y$ R_{ct}							
 X is a constant determined as a function of climate and the traditional construction techniques in root Newton millimetres (N^{1/2}.mm^{1/2}). It may be different for each equation and is selected for the country of use according to the table below. 							
National X factors	Country	Transvers	se Longitudi	nal Country	Transverse	Longitudinal	
	Belgium	1,0	1,0	Czech Republic	1,2	1,2	
	Ireland	0,9	1,1	Italy	1,2	1,2	
	France	1,0	1,0	Spain	1,0	1,0	

March 2022

	Germany	1,2	1,2	UK	0,9	1,1	
Those Member States which have not declared a national value should select a value or a pair of values in relation to their countries climate and traditional construction techniques. It should not be less than the minimum value or pair of values given above.							
e_i and e_t are determined by using the length <i>I</i> and the width <i>b</i> of the slates. The maximum value determined is the basic individual thickness of the slate, e_{b_i} . The basic individual thickness is increased in relation to the slates performance in the appropriate sulfur dioxide test as shown in 7 and 8 below.							