

Declaration of Performance



Year 2019



McKeon Stone

KILKENNY BLUE LIMESTONE

Quarry location : Killaree lane , Threecastles , Co Kilkenny , R95 RF22, Ireland

Production Location: Brockley Park , Stradbally , Co Laois , R32 XH52 ,Ireland

Products

Natural Stone Tiles
Natural Stone Setts
Natural Stone Kerbs
Stone Masonry Units
Stone Cladding

USE

External Paving in Public traffic areas
External Paving in Public traffic areas
External Paving in Public traffic areas
Masonry units with thickness >80mm
Slabs for Cladding

Standards

NBN EN 1341 :2001
NBN EN 1342 :2001
NBN EN 1343 :2001
NBN EN 771-6
NBN EN 1469

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|------------------------------|---|--|
| Petrographical Description | Grey , very fine to coarse grained bioclastic crinoidal LIMESTONE, well compacted with a rich fossil content of mainly shells from brachiopods and coral . The stone exhibited sparse stylitic seams running parallel to subparallel to the bedding plane . Relict bioclastic debris and crystal aggregations up to 6mm and commonly less than 3mm across. 98% Calcite , 0.7% Dolomite , 0.7% Quartz, 0.2% organic Carbon , less than 0.1% Iron Sulphite | EN 12407 :2011 |
| Average Chemical Composition | | |
| Flexural Strength | Average 12.7 MPa Minimum 11.5 MPa Maximum 14.0 MPa Standard deviation 1.5 | NBN EN 12372 :2006 |
| Frost Resistance | After 56 Freeze Thaw cycles , Average 12.7 MPa Standard Deviation 1.2 | NBN EN 12371 : 2010 |
| Compressive Strength | Average 136 MPa Standard deviation 12 | NBN EN 1926 : 1999 |
| Frost Resistance | After Freeze Thaw cycles , Average 129 MPa Standard deviation 6.1 | NBN EN 12371 |
| Water Absorption | Average 0.1 % dry mass | NBN EN 13755 :2008 |
| Apparent Density | Average 2690 Kg/m3 Standard Deviation 3 | NBN EN 1936 : 2006 |
| Abrasion Resistance | Average 18.5 mm Standard Deviation 0.65 | NBN EN 14157 : 2004 |
| Open Porosity | Average 0.4 v % Standard Deviation 0.05 | NBN EN 1936 : 2006 |
| Slip Resistance | Pendulum test TRL: Average Slip Resistance Value Flamed Dry 92 Wet 83 Sanded C24 Dry 68 Wet 51 Bushhammered Dry 91 Wet 75 Honed P36 Dry 55 Wet 44 | NBN EN 1341:2012 |
| Reaction to Fire | Class 1 | Without Testing (refer to decision 86/603/EEC) |

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