



Year 2020



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

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.	
Average Chemical Composition	98% Calcite , 0.7% Dolomite , 0.7% Quartz, 0.2% organic Carbon , less than 0.1% Iron Sulphite	EN 12407 :2011
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 Bushammered Dry 91 Wet 75 Honed P36 Dry 55 Wet 44 P16 Diamond Blade Dry 61 Wet 48	NBN EN 1341:2012
Reaction to Fire	Class 1	Without Testing (refer to decision 86/603/EEC)