**H92 Natural stone slab cladding/ lining/ features**

 **120 CLADDING TO EXTERNAL FACADES –RAINSCREEN PORTLAND STONE**

* **Support structure/ background:** Insert brief description
* **Stone slabs to BS EN 1469:** For compliance to the Construction Products Regulations, a current CE Certificate and Declaration of Performance data sheet is available from Albion Stone which include declared values for each test listed below, based on at least 10 years of testing, and authorised by a company director.
	+ Reaction to fire Class A1
	+ Flexural Strength BSEN 13161
	+ Resistance to Fixings BSEN 13364
	+ Frost Resistance BSEN 12371
	+ Water Vapour Permeability BSEN 12524
	+ Thermal Shock Resistance BSEN 14066
	+ Apparent Density BSEN 1936
* **Face dimensions, length (l) x width (b):** NBS0091\_1BS.gif
* **Thickness (d):** Calculated using results from the CE Certificate for the Flexural strength – BSEN 13161, and either the Resistance to fixing – BSEN 13364, or the Kerf clip, channel fixing or undercut anchor fixings tested under tensile strength as per the method set out in BS 8298. The calculation for the loadings and factor of safety are set out in BS 8298 (2020) part 4 sections 5.4 to 5.6 including Table 4 and Annex B and examples of the calculations are in Annex E & F.
* **Petrographic name to BS EN 12407:** Jurassic Limestone, Portland Whitbed from Stonehills Mine
* **Denomination to BS EN 12440:** Portland Stonehills Whitbed
	+ - Colour: Off white / creamy buff.
		- Origin: Portland, Dorset, UK
* **Finish:** The indicative sample reference number [insert] shows the surface finish, but not the full extent of the visual range. Range Panels located at Albion Stone’s mine in Portland show the range of geological features present in each bed of stone and will be the control samples for the project.
* **Supplier**: Albion Stone plc, Easton Street, Portland Dorset DT5 1BW. 01737 771772
* **Quality**: A Factory Production Control system will ensure the stone are free from vents, cracks, fissures, discolouration, or other defects deleterious to strength and durability. Tolerances as stated in BSEN 1469
	+ Quality Management: compliance with ISO 9001
* **Environmental impact.**
	+ Environmental Management: compliance with ISO 14001
	+ Responsible Sourcing of the stone: compliance with BES 6001 - ‘Excellent certification’
	+ Environmental Product Declaration (EPD) A1-A3 Global Warming Potential (GWP) 44.7kgCO2/Tonne
* *Note – all further sections to the specification should be in accordance with best practice as set out in the standard NBS clauses and BS 8298.*