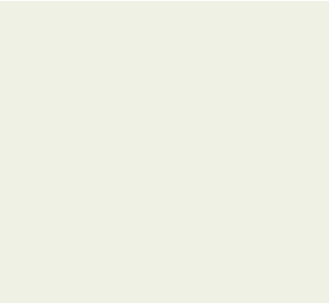
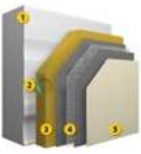


Proposed Cladding

StoTherm Mineral M System or similar approved. Render colour to match existing



Proposed Substrate



StoTherm Mineral M with Sto-Rotofix Plus
The unique, adjustable spiral fixing Sto-Rotofix Plus allows for the correction of unevenness by up to 30mm (green fixing) or 70mm (black fixing).

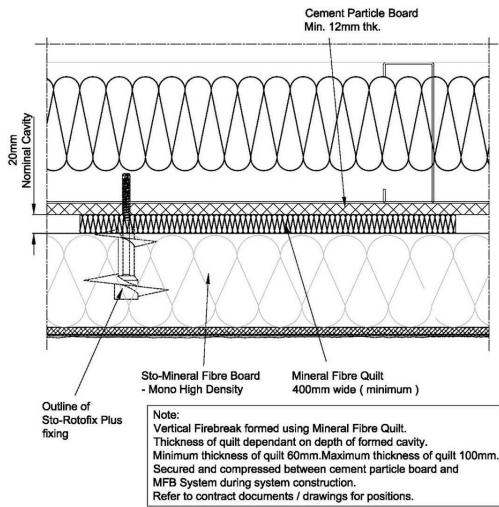
1. Substrate

2. Fixing
Sto-Rotofix Plus green/black spiral fixing

3. Insulation Board: Sto-Mineral Fibre Board
1200 x 600 mm, MHD square-edged, standard thickness: 80-200 mm

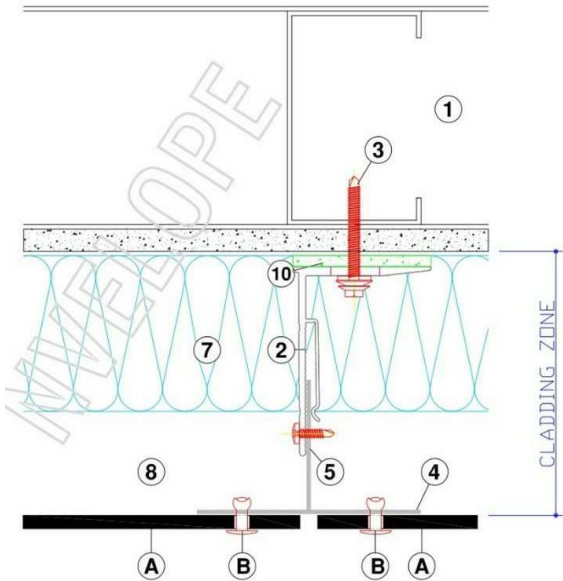
4. Reinforcement
StoArmat Classic cement-free reinforcing coat or StoArmat Novo mineralic reinforcing coat
Sto Glass Fibre Mesh / Sto-Armour Mesh embedded into reinforcing coat

5. Render Finish
Acrylic render finish (Stolit)
Acrylic render finish with aggregate (StoSuperlit)
Silicone resin render finish (StoSilco)
Self-cleaning render with Lotus-Effect® (StoLotusan)



The existing EWI rendered areas are likely to be thin coat render on an expanded polystyrene board, which is not classified as A1 or A2-s1,d0. An identical appearance can be achieved using a mineral wool board substrate, which is classified as a non-combustible EWI system. The StoTherm Mineral M system is such an example. In order to be BBA approved (and warranty provider approved) these systems must now be fitted as a drained cavity, between the CP board and the insulation. This can be achieved with drained rails or in the case of Sto systems, using a Rotofix attachment.

Timber Effect Aluminium Planks. Knotwood (Japanese Cypress) or similar approved. Colour to match existing

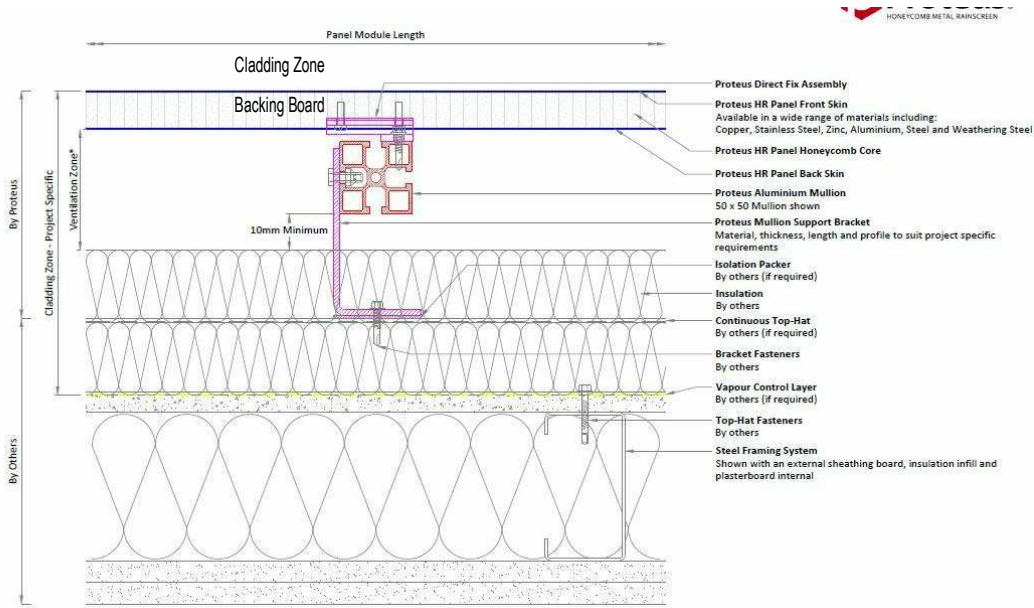


To achieve non-combustible cladding compliance, natural timber boards such as cedar or larch cladding boards are no longer feasible as a cladding finish. The appearance of timber, however, can be achieved using either cementitious effect boards (e.g. Cedral) or aluminium planks with a timber effect printed onto the surface (e.g. Knotwood). Cedral boards tend not to have the same colour range as aluminium planks and tend to mimic painted weatherboarding (greys, creams, pastels etc.). Aluminium boarding systems require that the planks are fitted onto aluminium top-hat support sections or helping hand systems within the rainscreen cladding zone and the rainscreen insulation also needs to be a mineral wool in order for the substrate system to also be non-combustible.

Glass Fibre Reinforced concrete panel, Polycon (Slate Brown) or similar approved



Copper Strip Cladding, TECU Oxid or similar approved. Colour to match existing



Both of these finishing materials can achieve A1 or A2-s1,d0 fire ratings by default, though in the case of pre-manufactured large format copper panels, these would need to be on a suitable non-combustible backing, such as an aluminium honeycomb core (e.g. Proteus HR).

The important aspect of a non-combustible, 'through-wall' system is that the correct insulation and support system is specified to also be non-combustible. Timber battens and plywood are both considered as combustible materials, so a traditional in-situ fixed copper cladding cannot be fixed onto a plywood substrate, but could be fitted to a substrate such as Versapanel A2, which is a cement-bonded Particle Board. Fixings clips for copper standing seam detailing are traditionally nailed, so testing may be required into a CP board to determine performance but could be achieved with a screw fixing using a single lock clip

Construction (Design and Management) Regulations

Design risk assessments are carried out throughout the design stage of this project in accordance with company procedures and manuals. Where reasonably possible all areas of risk applicable to design and end use of the construction have been identified and then eliminated, mitigated or recorded as a residual risk. Note that general risks of which a competent designer or contractor should be aware are not included. This drawing is to be read in conjunction with the Pre-construction Information and all related documents prepared in accordance with the current Construction (Design and Management) Regulations 2015 and all applicable Health and Safety legislation as currently amended.

P00	Lawful Development Application	11/20/2020
REV	DESCRIPTION DRAWN BY CHECKED BY APPROVED BY	DATE
RIBA PLAN OF WORK 2013 WORKSTAGE	LEVEL OF MODEL DEFINITION (LoD)	
Stage 4 - Technical Design	LoD 4a - Precise Model	
PURPOSE OF ISSUE - SUITABLE FOR ...	BS1192 STATUS	
Planning Submission	NA - Not Applicable	

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CLIENT
Artisan Investment Group

PROJECT TITLE
Vulcan Mills

DRAWING TITLE
Cladding Material - Substrates

PROJECT No
19377

SCALE @ A3

DRAWING No	PROJECT - ORIGINATOR - VOLUME - LEVEL - TYPE - ROLE - NUMBER	REVISION
BS 1192:2007 44220161.6 ISS 04/02/2020	VUL-LAW-X-X-SH-	A-310001 P00

DO NOT SCALE
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