

County Flats, Sandfields

October 2020

Introduction

For both the new build and the retrofit elements of the project there is a choice of what materials to clad the building in.

The performance of the thermal fabric can be achieved with external and internal insulation. The retrofit buildings are proposed in external insulation (Mineral Fibre - for resistance to fire). The new buildings will be insulated within the fabric, again with preference for Mineral Fibre, as compared to PIR insulation.

The Design Brief to date has focussed on how to extend and increase the number of apartments and associated parking and facilities utilising a sustainable methodology, which can be repeated and applied to other schemes of a similar nature.

This document will focus on the New Build and Retrofit elements of the project, to develop a strategy for the external finishes which can be potentially replicated.



Introduction

Building Finishes

Retrofit - Existing Blocks

New Build - End Blocks and Mid Links

New Build - Block 7

Proposed Materials: Outline specification

- 1) Brick Slips
- 2) Bricks
- 3) Cladding - Trespa Meteon
- 4) Cladding - Trespa Pura / Cedral
- 5) Cladding - Microrib
- 6) Louvres
- 7) Windows
- 8) Doors
- 9) Roof - Single Ply Membrane



Retrofit - Existing Blocks:

Key

1	Brick Slip	TM Corium
2	Bricks	Wienerberger
3	Cladding	Trespa Meteon
4	Cladding	Trespa Pura or Cedral
5	Cladding	Vertical Microrib
6	Louvres	CS Louvres
7	Windows	uPvc Anthracite
8	Doors	uPvc/ Aluminium
9	Roof	Single Ply Membrane with Standing Seam
10	Juliette	Safety Glass

All finishes to be as specified or similar approved



New Build - End Blocks & Mid Links:

Key

- | | | |
|----|--------------|--|
| 1 | Brick Slip | TM Corium |
| 2 | Bricks | Wienerberger |
| 3 | Cladding | Trespa Meteon |
| 4 | Cladding | Trespa Pura or Cedral |
| 5 | Cladding | Vertical Microrib |
| 6 | Louvres | CS Louvres |
| 7 | Windows | uPvc Anthracite |
| 8 | Doors | uPvc/ Aluminium |
| 9 | Roof | Single Ply Membrane with Standing Seam |
| 10 | Juliette | Safety Glass |
| 11 | Solar Panels | |

All finishes to be as specified or similar approved



New Build - Block 7:

Key

1	Brick Slip	TM Corium
2	Bricks	Wienerberger
3	Cladding	Trespa Meteon
4	Cladding	Trespa Pura or Cedral
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10	Juliette	Safety Glass
11	Solar Panels	

All finishes to be as specified or similar approved



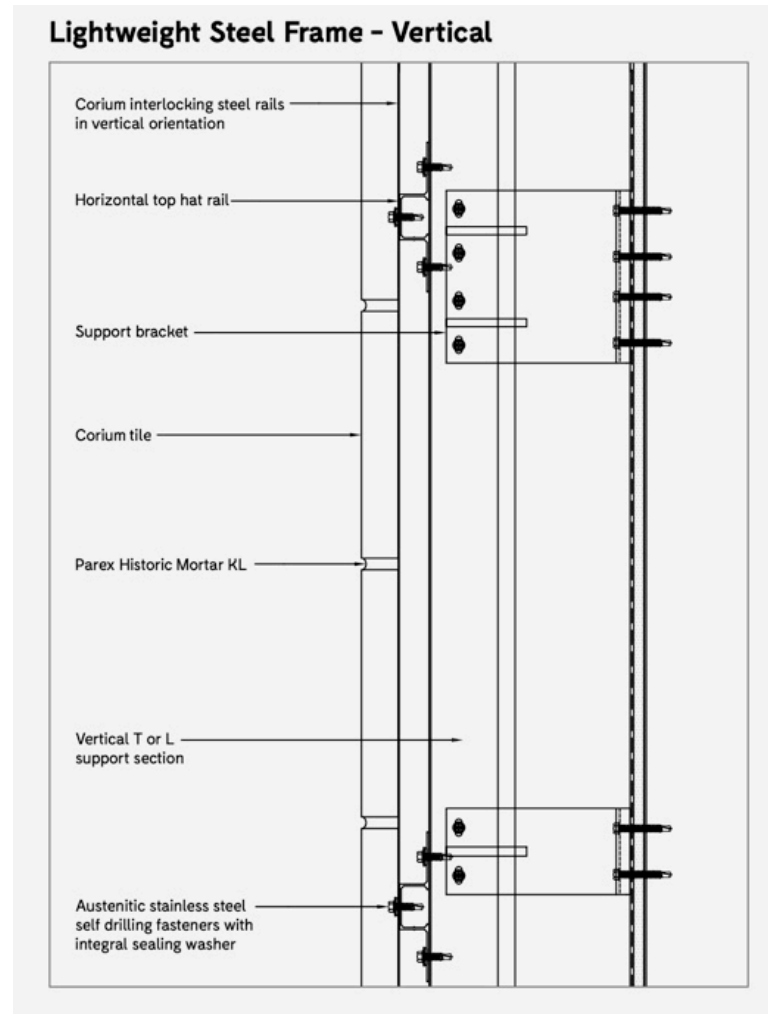
Proposed Materials: Outline Specification

1) Brick Slips - Corium:

Use & Installation

Corium is a system designed for ease of use, with safe and speedy installation. A nationwide network of recognised installers install the system from mobile platforms, scissor lifts, mast climber or traditional scaffolding.

The procedure for installation (as per section 13 of the BBA certificate) provides a simple, quick and efficient way to create a weather-tight surface, allowing further construction to continue promptly. There's also the option to pre-fabricate sections in a quality controlled factory environment, speeding up installation further. Plus, it can be used anywhere above the damp-proof course level (as per section 4 of the BBA certificate).



✓ Strength & Stability

The system can be designed to resist wind actions normally encountered in the UK (as per section 6 of the BBA certificate).

✓ Fire Resistance

The system components are Class A1 as defined in the national Building Regulations (as per section 7 of the BBA certificate).

✓ Wind & Water Resistance

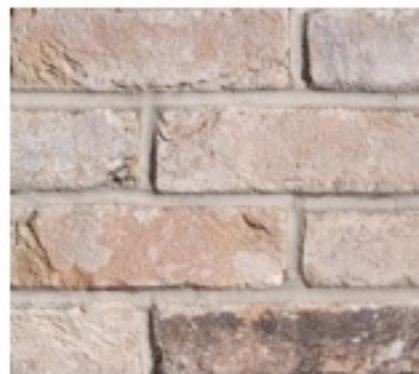
The system minimises water penetration and the risk of damage to the inner wall (as per section 8 of the BBA certificate).

✓ Durability

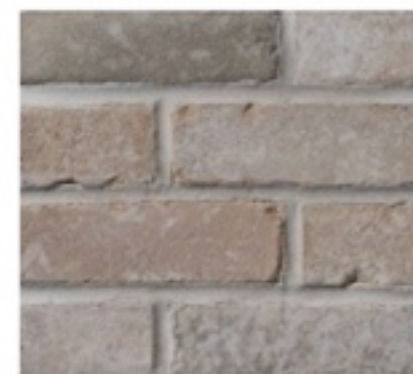
When used in normal exposure conditions, the system can have a design life in excess of 35 years (as per section 10 of the BBA certificate).

✓ Building at Height

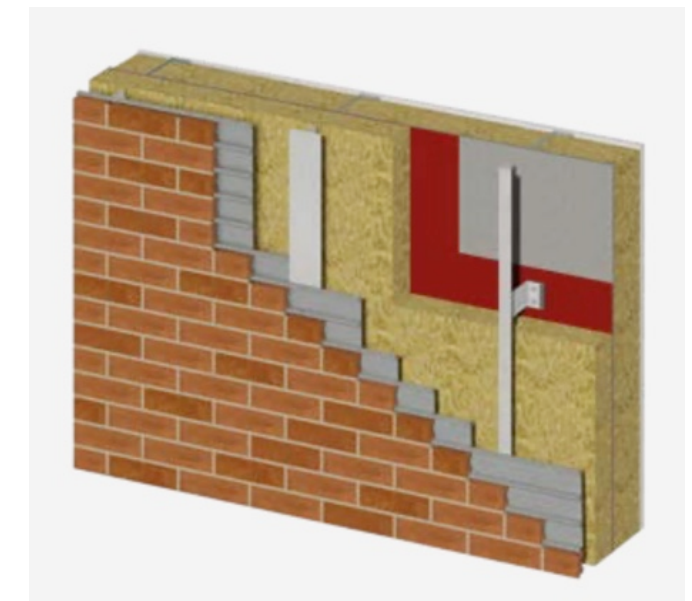
No build limit, proven to be built to 28 storeys (as per section 6.2 of the BBA certificate)*.



St Ives Cream Rustica



Old Beaufort



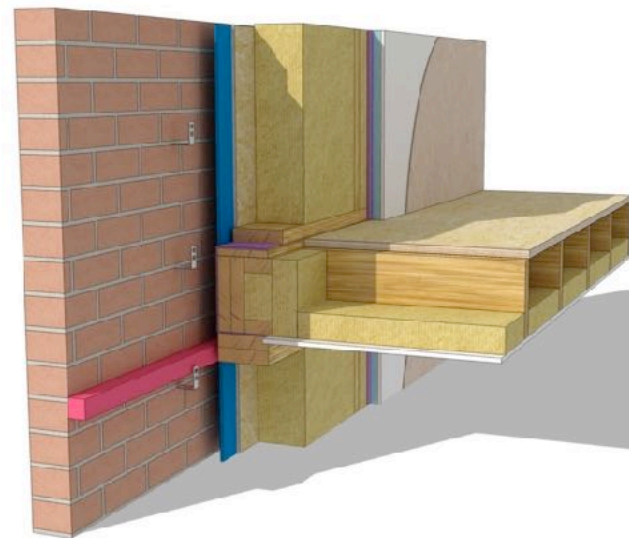
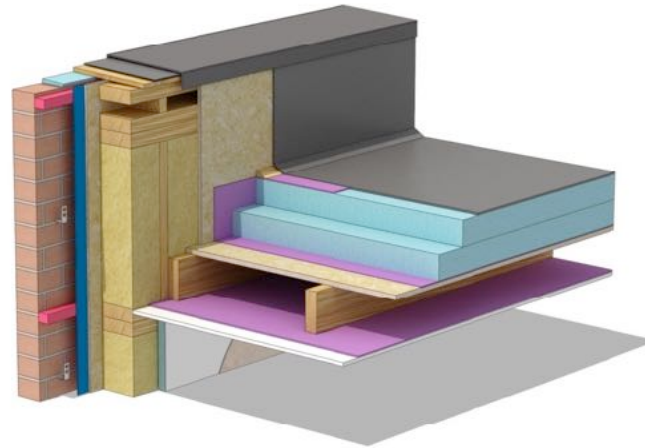
Proposed Materials: Outline Specification

2) Bricks:

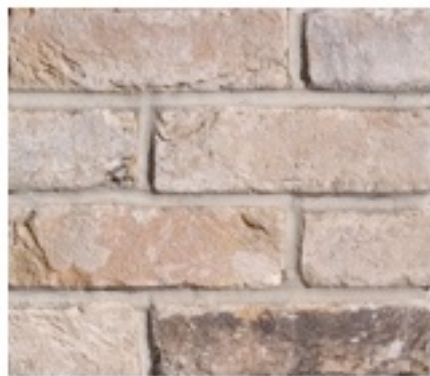
Use & Installation

Brick outer leaf; Timber frame

Contemporary Stock Bricks



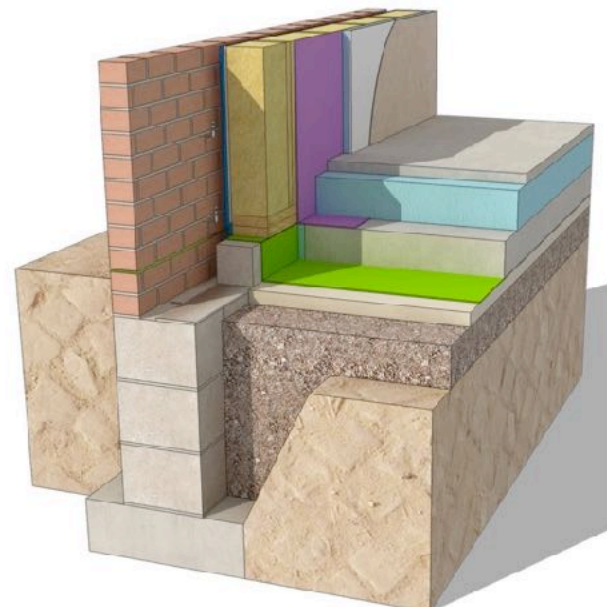
3D Detail T-G6 - Timber frame wall, timber intermediate floor, joists perpendicular to wall



St Ives Cream Rustica



Old Beaufort



3D Detail T-G2 - Timber frame wall, ground bearing concrete slab, insulation above slab

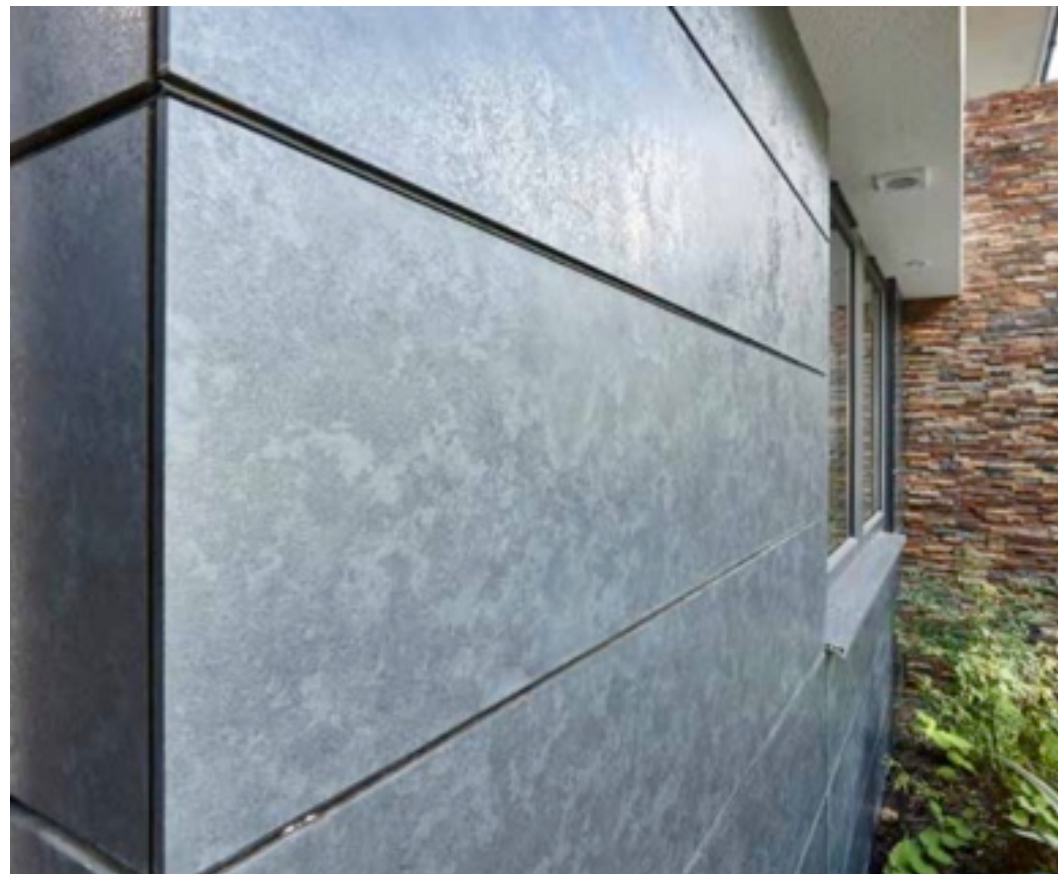
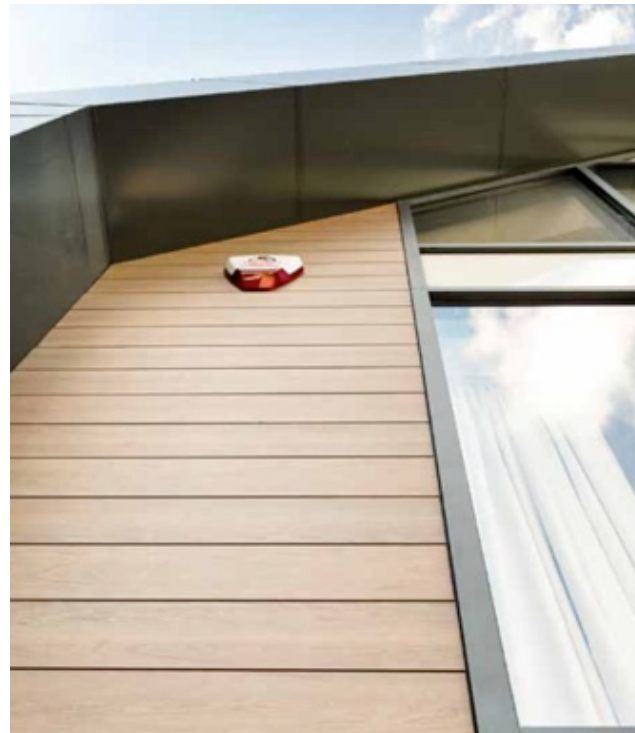


Proposed Materials: Outline Specification

3) Cladding - Trespa: Meteon

Use & Installation

Trespa® Meteon® is engineered for exterior coverings such as façade cladding, balcony panelling, sunblinds, soffits and other demanding applications. Thanks to the wide variety of options on offer, there's a perfect match for almost every architectural vision. A broad selection of innovative finishes and striking effects, bespoke and standard colours, allow you to play with abstract variations, colours and natural appearances.

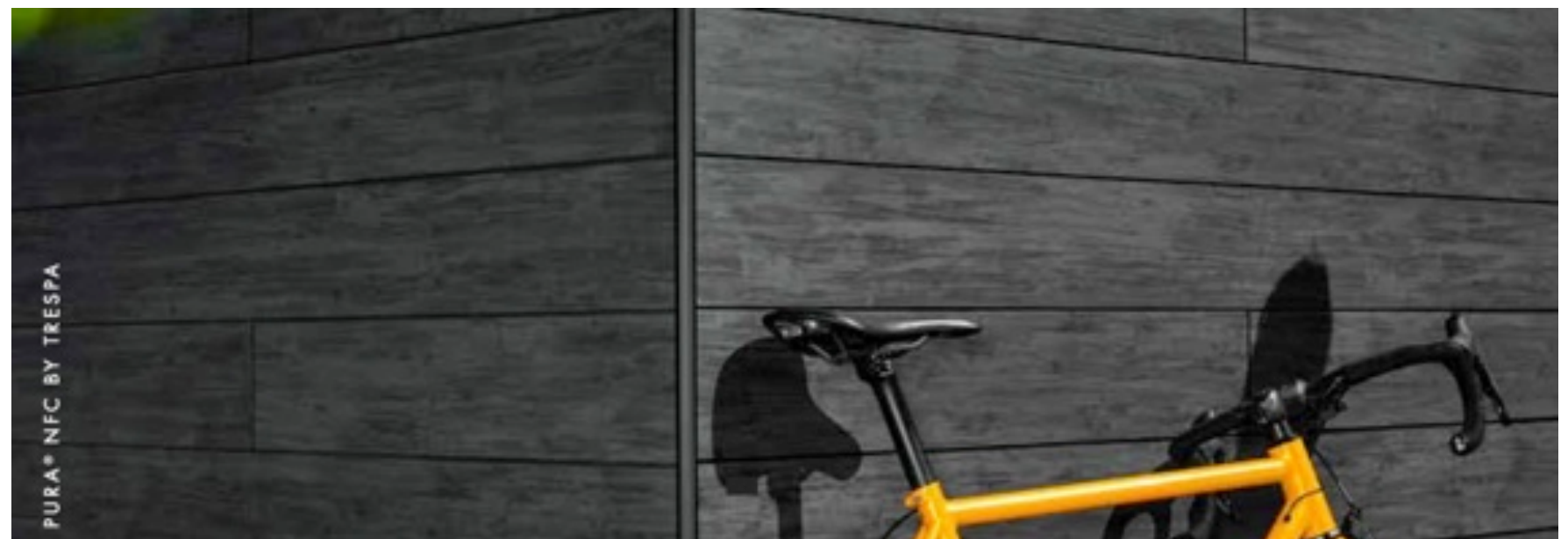
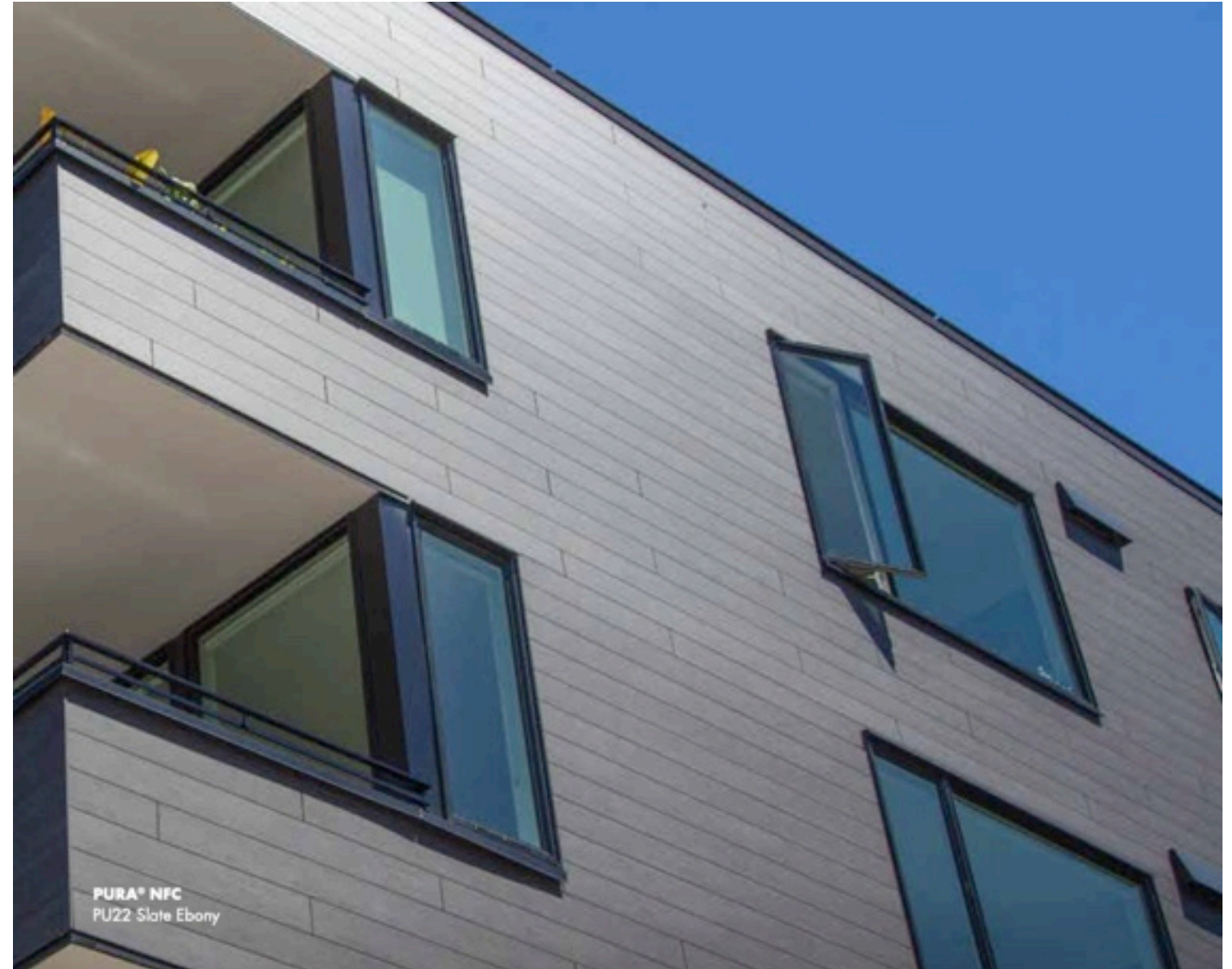
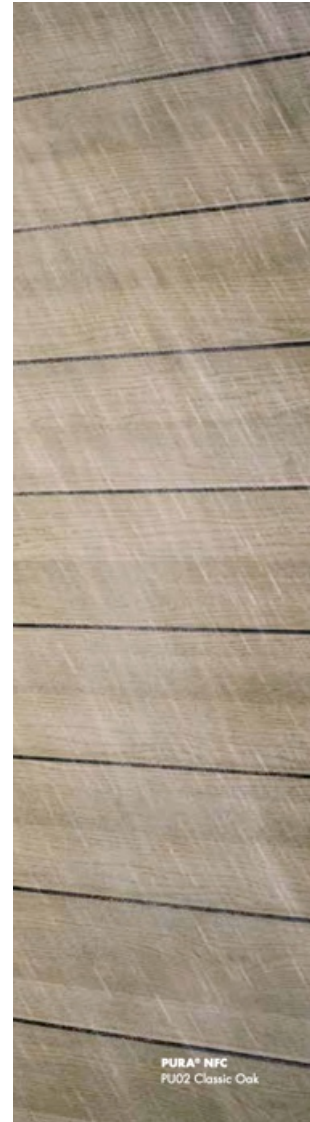


Proposed Materials: Outline Specification

4) Cladding - Trespa: Pura

Use & Installation

Trespa Pura NFC® provides a solution consisting of sidings, fasteners and matching accessories. The sidings are not only attractive, but are also highly durable. Sidings undergo extensive testing for impact and uv resistance and come with a 10-year product guarantee, which includes colour stability. The system gives maximum design freedom and a long lasting, beautiful finish.



Proposed Materials: Outline Specification

4) Cladding - Cedral:

Use & Installation

Fibre cement Cedral Lap weatherboard external cladding is the ideal low maintenance, rot free alternative to traditional timber weatherboarding. With the visual appeal of natural timber, simplicity of installation and resistance to rot, Cedral Lap weatherboard is an attractive, low maintenance alternative to PVCu cladding or timber. Cedral Lap weatherboard can be supplied in a range of 23 factory applied solid colours - providing an aesthetic option to suit many project requirements.

Visual appeal of natural timber

- Perfect to refresh old walls or add a new feature
- Quick, easy and straightforward to instal
- Dry fix
- Resistant to rot & immune to insects
- Life expectancy of 50 years
- Stands up to the harshest weather conditions
- Full range of complimentary trims available
- Available in two finishes, wood effect and smooth
- 23 colours to choose from (some subject to minimum quantities and lead times)



CEDRAL LAP

Fitted in traditional lapped style and with the visual appeal of natural timber, Cedral is an attractive, low maintenance alternative to all types of weatherboarding.

CEDRAL CLICK & CEDRAL CLICK SMOOTH

Cedral Click is the UK's first flush fitting, fibre cement, tongue and groove cladding board and is supplied with a simple 'Click Clip System', which makes installation quick and easy.

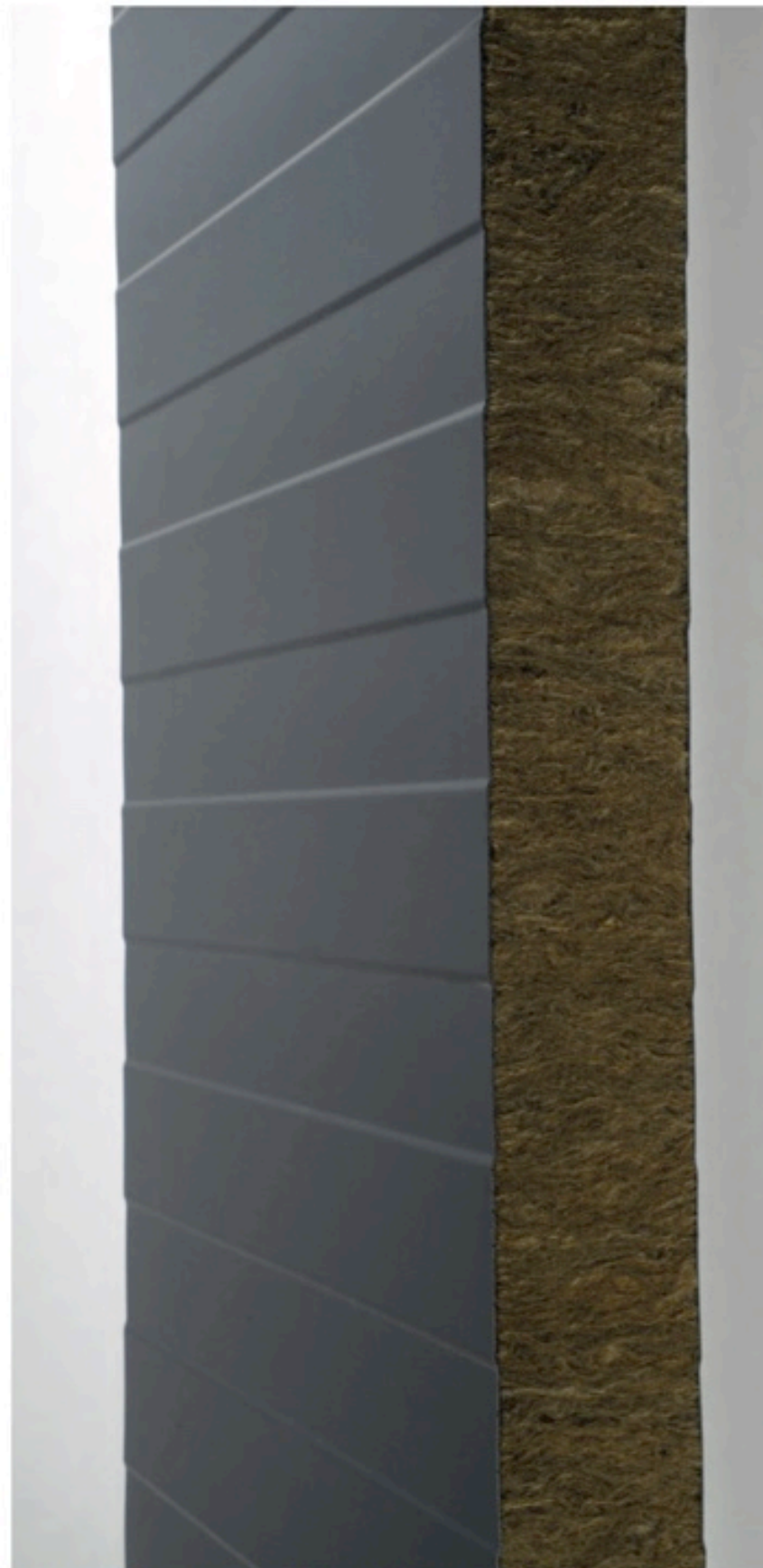


Proposed Materials: Outline Specification

5) Cladding - Microrib:

Use & Installation

- Non-Combustible high density mineral wool core (100kg/m³)
- Useful width of 1000 mm
- Trapezoidal metal outer sheet (37/250/1000)
- Different coatings and colours possible
- Inners sheet standard in liner profile 15μ PE R9002 but also available in Colorfarm 35μ/ Foodsafe 150μ PVC
- Produced according to EN 14001
- CE-marked
- Fire classification A2,1s-d0 according to EN 13501-1
- Fast mounting
- Good thermal properties



Detail of the mineral wool inside the Vulcasteel Wall SF



MINERAL WOOL CORE
The extreme fire protection

Proposed Materials: Outline Specification

6) Louvres:

Use & Installation

The principal reason for using louvres is to allow the movement of air.

The Balconies with ASHP plant will require Rain Defence louvres to offer both good airflow and protection from water ingress.

For situations where the primary concern is maximum airflow, and some rain penetration is acceptable, Ventilation louvres should be considered.

Louvre specification is a balance between form & function, but appearance plays an important part in the selection process. With a wide range of options available, louvres can become a stand out feature, or be harmoniously blended with the building design.



Proposed Materials: Outline Specification

7) Windows

Use & Installation

uPvc: Anthracite Grey

REHAU uPvc Window offers high security multi-point-locking sashes with sac / shoot bolts fitted as standard, providing protection from forced entry attempts even when using 2nd stage locking to keep the air flowing. As well as being secure, they are also extremely thermally efficient and were the first window to ever achieve the A-Rated standard.



Proposed Materials: Outline Specification

8) Doors

Use & Installation

Aluminium:

Sapa: Technal Dualframe Dualsecure door is a versatile door system suitable for both domestic and light commercial installations.

Door sizes of up to 1250/2446mm (w) x 2500mm (h) can be achieved (100Kg weight limit)

Rebated and low threshold options are available.

Optional auxiliary locking option available and certified to PAS 24.



Proposed Materials: Outline Specification

9) Roof - Single Ply Membrane:

Use & Installation

Fatra membranes have been fully tested by the leading authorities in the UK. As well as a certified life expectancy in excess of 30 years from the British Board of Agrément (BBA), Fatra has both ISO 9001 Quality Standard and ISO 14001 Environmental Standard approvals, as well as FM approval and a BRE Green rating of A+.

Typical build-up:

Plywood deck

Fatra FF816 self-adhered VCL or FF819 torch-on VCL Tissue-faced PIR insulation

Fatra FF807 membrane (1.5mm thick, 1.3m x 15.4m roll)

Fatra FF814 PVC standing seam profile



PVC standing seam profile roofs

