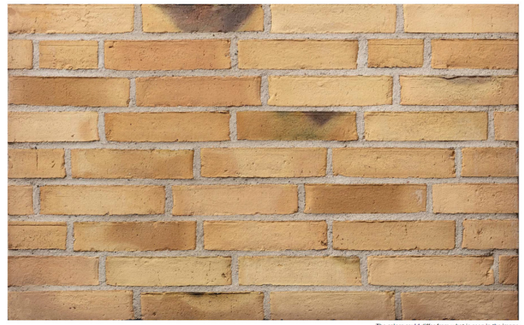
6.0 Materiality - Timber Cladding

The north and south elevations of the main house and pavilions incorporate areas of vertical timber boarding. Timber species to be shortlisted may include cedar, iroko, larch and oak. The west elevation is largely brick but includes a timber-clad projecting bay, whilst the east elevation is entirely of brick.

Timber naturally weathers to a silver-grey colour due to surface oxidisation. The timber boarding will be allowed to weather naturally to this silver-grey colour. The natural oxidisation process changes the colour of weathered timber from pale brown tones to silver after a short period, and the natural oxidisation provides a natural protective finish, thereby obviating the need to stain or paint the timber and redecorate every few years with chemical-based stains or paints. Areas of timber that are shaded by overhangs for example, will weather at a slower rate than fully exposed timber.

Surface treatments can be applied to either cover the natural timber (paints and coloured stains) or waxes and oils to impregnate the timber to slow the rate of natural weathering, but all require periodic maintenance and repeated treatments, hence the choice to allow the timber to weather naturally..

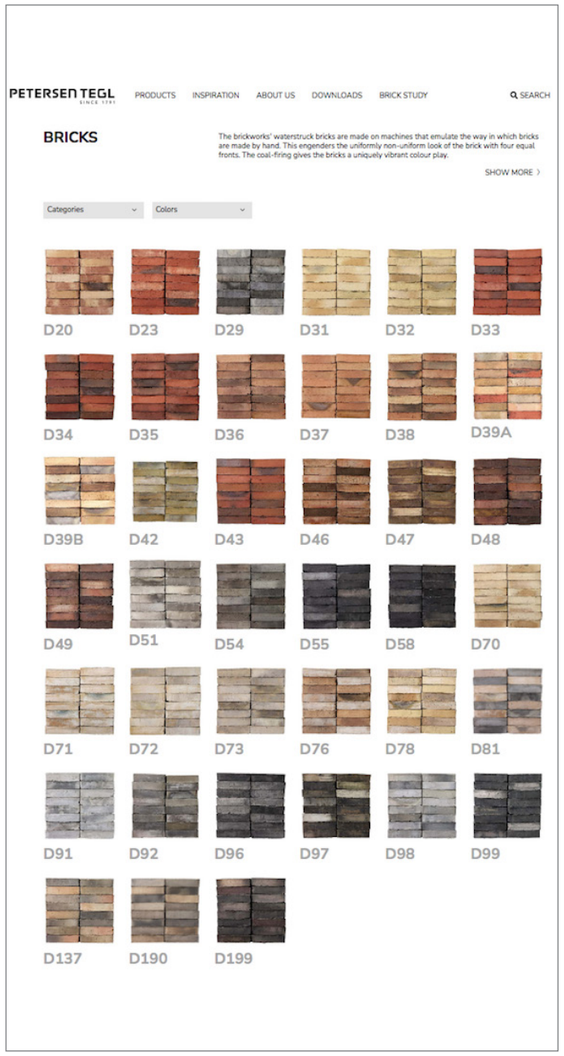


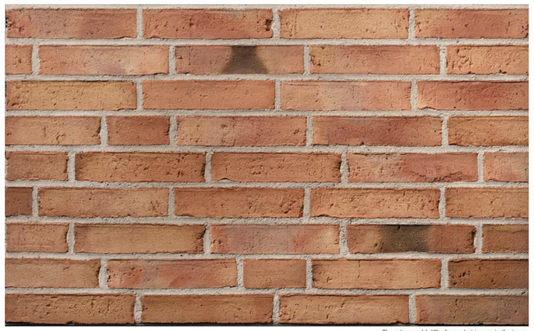
D31

D32

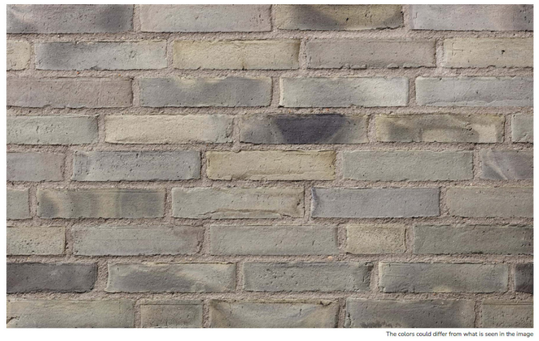
D72

D78

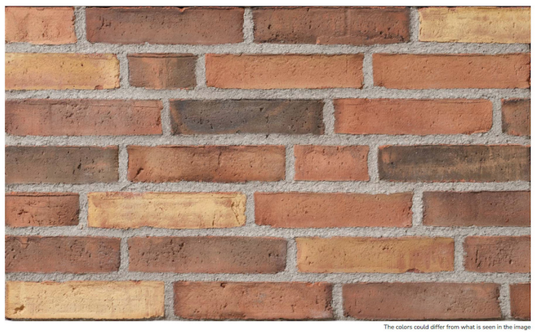




D37



D51



D38

D91

6.0 Materiality - Brick

The choice of brick colour will be informed by both the context of brick colours in Letchmore Heath and compatibility with the timber boarding, which will weather naturally to a silver-grey colour.

The final brick selection would be made in consultation with the Planning Department, after preparing material sample panels to view on site. Currently, the preferred colour tones of brick will pick up the silver-grey tone of the timber cladding, but also reflect the pale buff coloured brick often found within the village. Some examples of the preferred colour range are pictured, and would form the basis of a conversation with the Planning Case Officer and Conservation Officer.

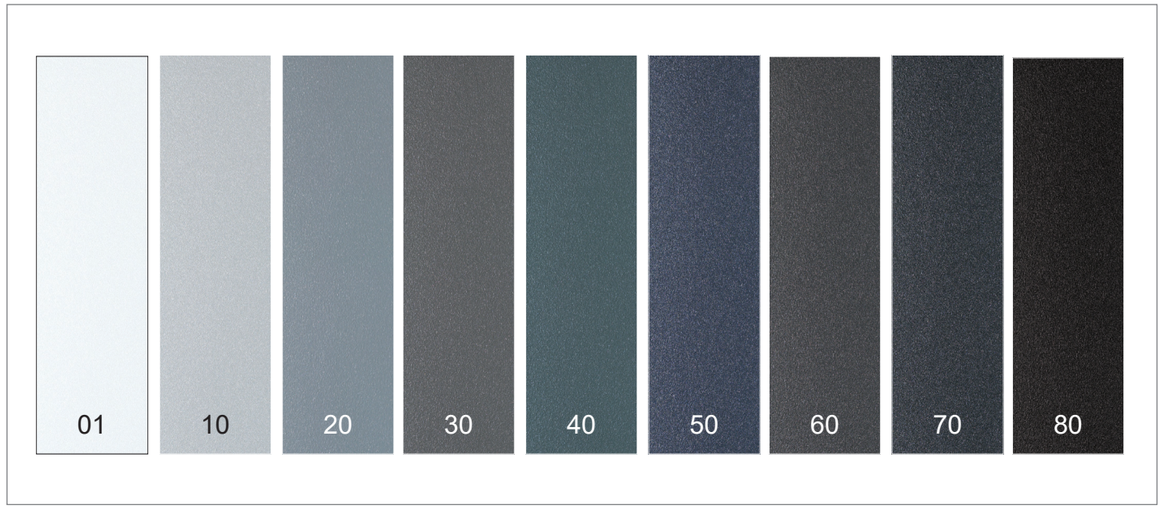
Petersen bricks, for example, are made to Danish brick dimensions. Standard UK bricks are 65mm high and 215mm long. Petersen bricks can be supplied in the following heights and lengths:

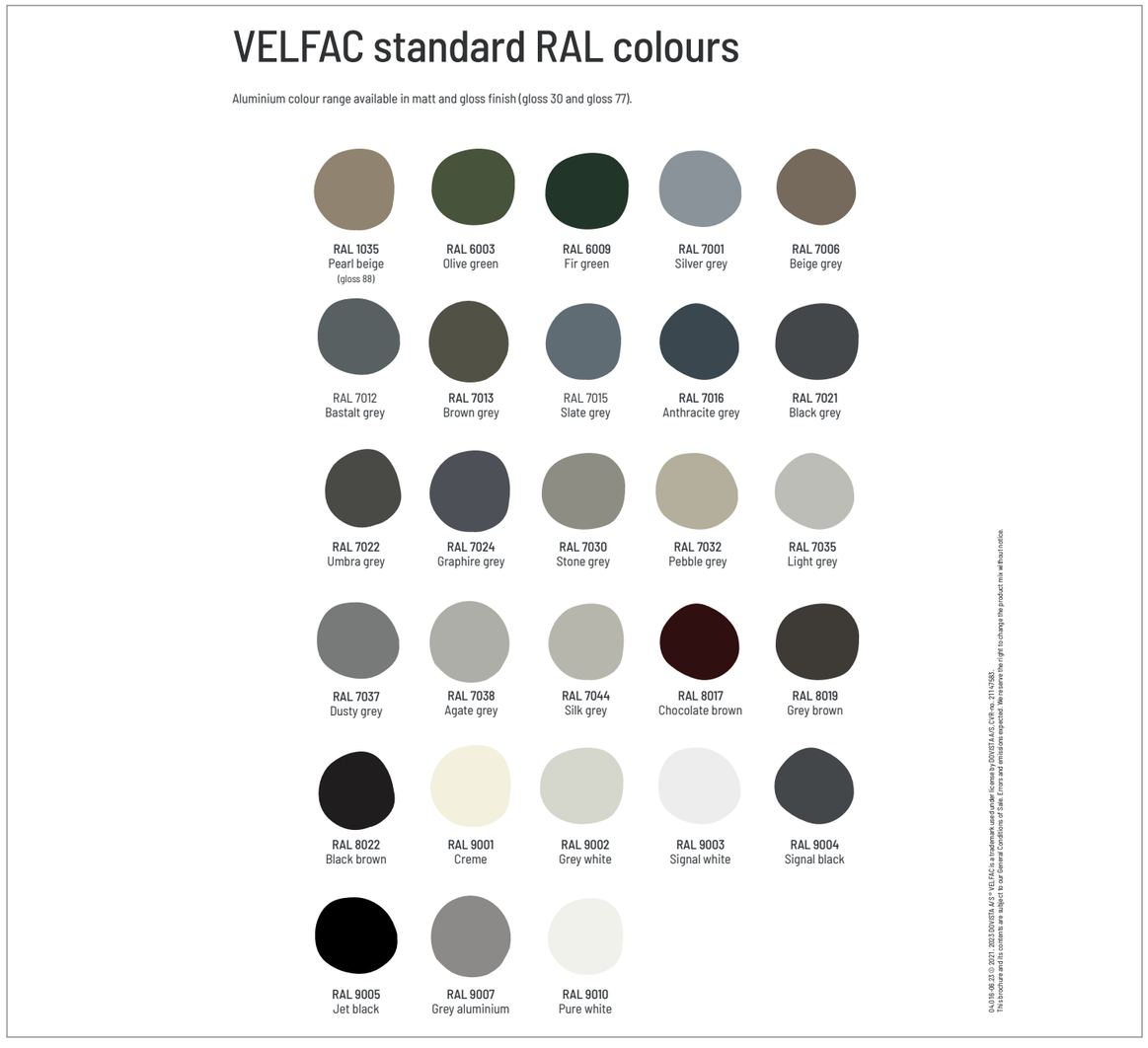
228 mm x 40 mm
228 mm x 54 mm
220 mm x 65 mm

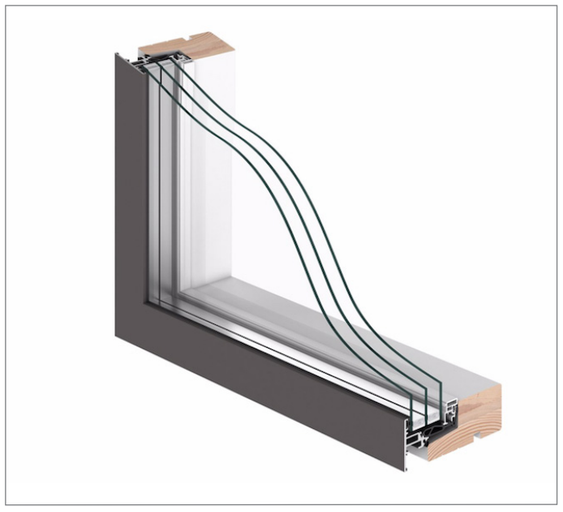
Far left
Full range of Petersen brick colours

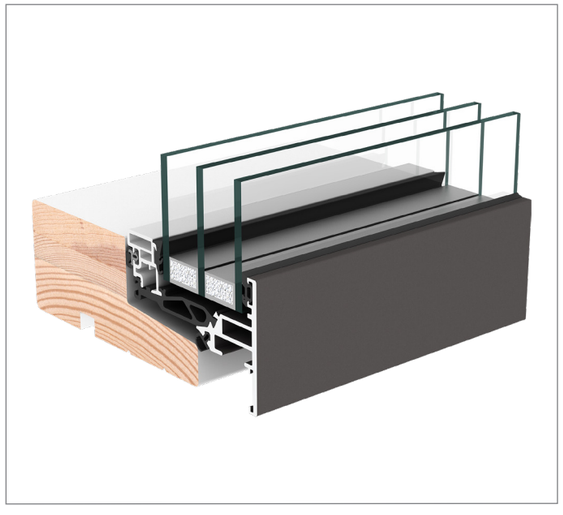
Top row, middle left and near left
Selected Petersen brick colour shortlist

Website
https://en.petersen-tegl.dk/bricks/products/









6.0 Materiality - Windows and Doors

External finishes

It is proposed to use Velfac windows and doors, which comprise a timber internal frame with an outer frame made of extruded aluminium and finished in a range of anodised or powder coated paint colours. The combination of timber and aluminium delivers a product which is made partly from a highly sustainable interior material (timber) combined with a very resilient exterior material which ensures longevity of the window and reduces maintenance and replacement cycles.

Silver-grey colour ranges have been shortlisted due to their compatibility with the silver-grey timber boarding, but the final choice of brick colour will influence the final colour selection.

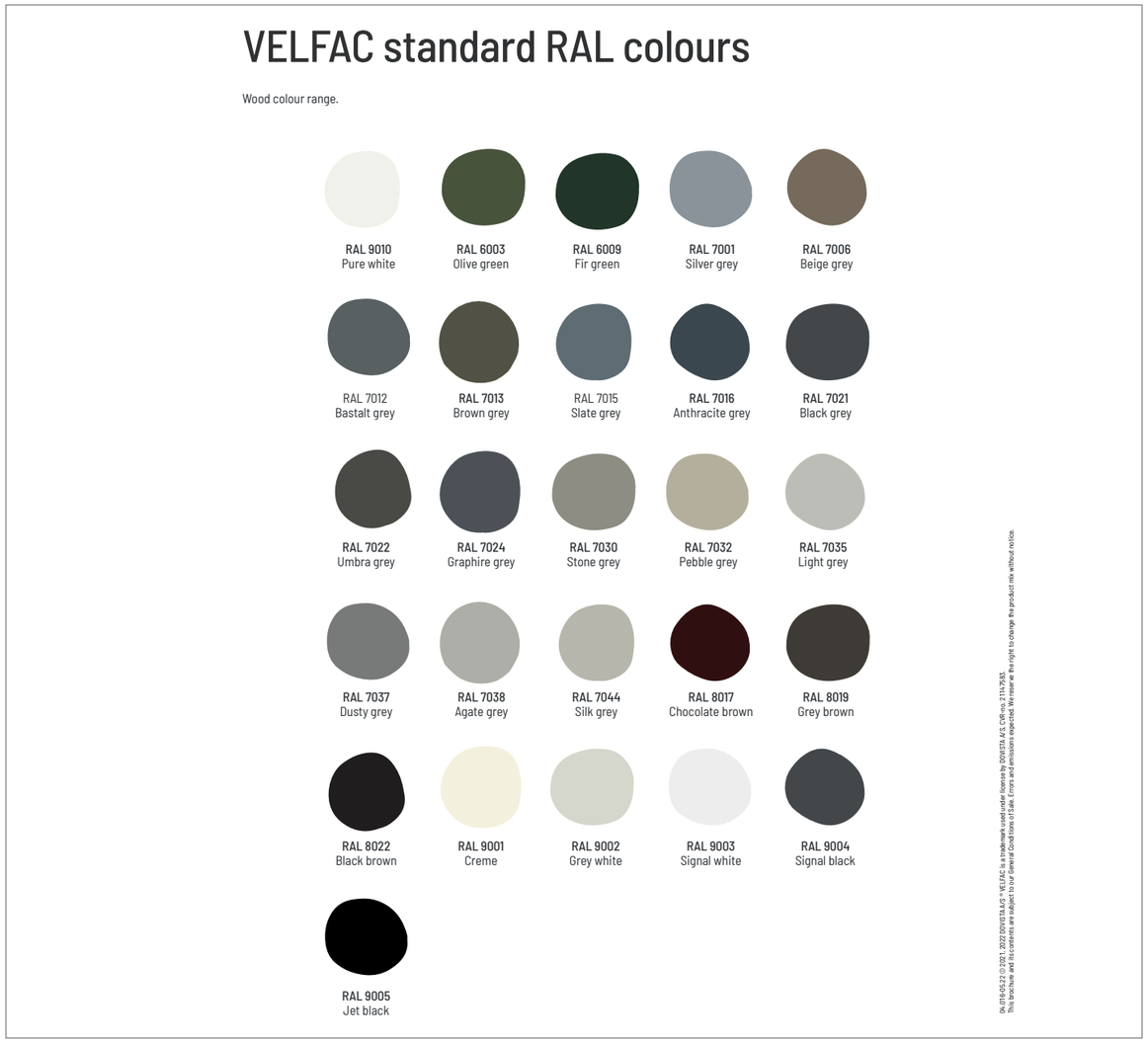
Velfac
External Aluminium Frame Colours

Top left
Aluminium ‘Granite’ colours

Far Left
Aluminium colour range in matt and gloss finishes

Left
Frame cutaway section details

Website
https://velfac.co.uk



6.0 Materiality - Windows and Doors

Internal finishes

Velfac
Internal Timber Frame Colours

Top row left
Clear lacquer finish to internal timber frame

Top row second from left
Black painted finish to internal timber frame

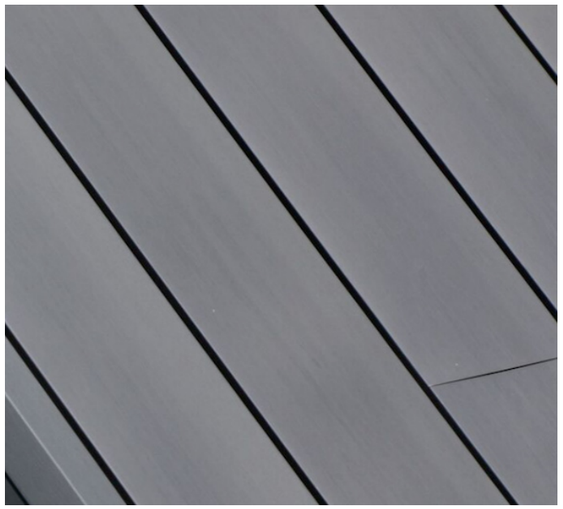
Top row third from left
White painted finish to internal timber frame

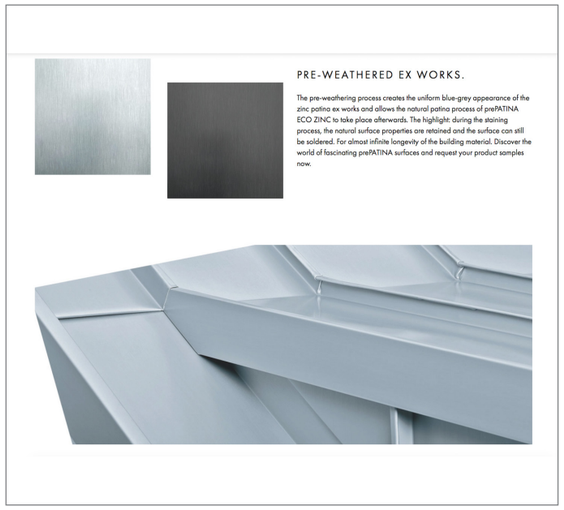
Above
Lacquered or painted internal timber frame

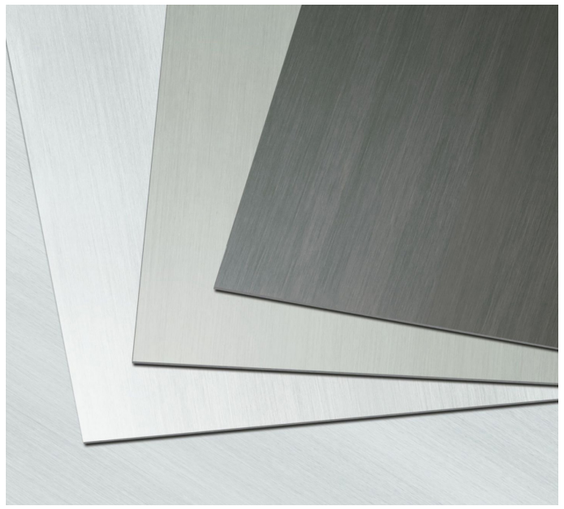
Far left
Standard RAL paint colours for internal timber frame

Left
Clear lacquer finish to internal timber frame
Note the lacquer finish exposes finger joints in the timber frame

Website
https://velfac.co.uk







6.0 Materiality - Roofs

House roof

The duo pitch roof of the house is finished in zinc. The flat truncated ridge detail works well in zinc, and the zinc material supports the contemporary vernacular architectural language of the proposed design. Zinc gutters are flush to the walls, and integrated within the roof / eaves detail.

Rheinzink or similar zinc roofing manufacturers offer a number of finishes. The Rheinzink pre-patinated (pre-weathered) finish is a slate grey colour, rather than the shiny natural ‘Classic’ untreated zinc, and is likely to be compatible with the silver-grey timber cladding and silver-grey exterior colour of the Velfac windows and doors.

Website
https://www.rheinzink.co.uk

Pavilion roofs

Pavilion roofs are flat bitumenous roofs, typical of the roofs offered by Bauder. The garage and studio roof would incorporate a Bauder roof system suitable for use as a green roof. The gym and pool pavilion will incorporate a Bauder roof, and any PV array will be supported by Bauder’s own PV panel support system.

Website
https://www.bauder.co.uk

The colors could differ from what is seen in the image

D31

The colors could differ from what is seen in the image

D32

The colors could differ from what is seen in the image

D78

6.0 Materials palette combined - 01

Top row	Zinc roof
Middle Row	Timber cladding
Bottom row	Brick - buff coloured

6.0 Materials palette combined - 02

Top row	Zinc roof
Middle Row	Timber cladding
Bottom row	Brick - buff coloured with hint of grey

The colors could differ from what is seen in the image

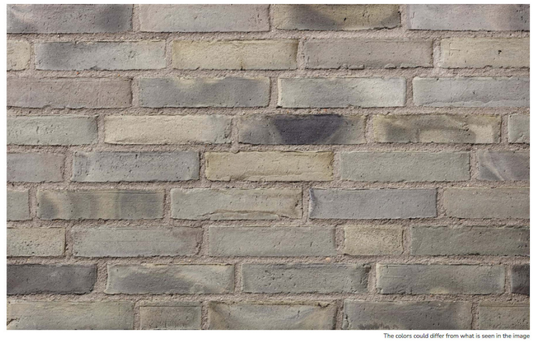
D72

The colors could differ from what is seen in the image

D73

The colors could differ from what is seen in the image

D70



The colors could differ from what is seen in the image

D51

The colors could differ from what is seen in the image

D91

The colors could differ from what is seen in the image

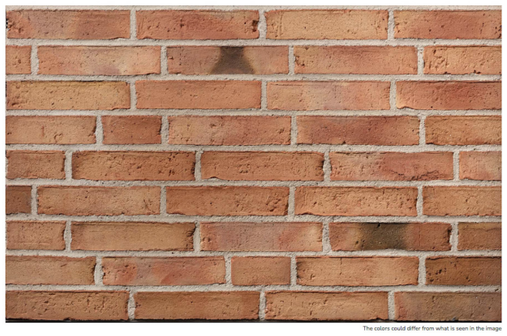
D98

6.0 Materials palette combined - 03

Top row	Zinc roof
Middle Row	Timber cladding
Bottom row	Brick - grey coloured

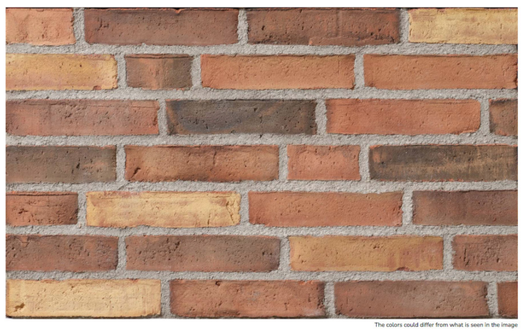
6.0 Materials palette combined - 04

Top row	Zinc roof
Middle Row	Timber cladding
Bottom row	Brick - red/brown coloured



The colors could differ from what is seen in the image

D37



The colors could differ from what is seen in the image

D38

The colors could differ from what is seen in the image

D36