



Profiled sheeting

Innovative solutions

A+

Manufactured in the UK, Marley Eternit's fibre cement profiled sheeting can achieve up to an A+ rating for the lowest environmental impact in the Green Guide to Specification.

Housing
Education
Leisure
Industrial



A modern agricultural classic



Fibre cement enthusiasts Neil Sutherland Architects have used profiled sheeting from Marley Eternit to create an award-winning “modern agricultural aesthetic” in a self-build house in Scotland.

The Inverness-based practice specified Marley Eternit profiled sheeting, which was originally designed for agricultural buildings, for four main reasons – its low embodied energy, affordability, vapour permeability and aesthetics.

It has been used in Gunmetal Grey and complemented by distinctive cranked crown ridges on the roof of the single-storey 80m² house, built with timber frame and untreated larch-clad walls on six acres of ex-forestry land near the Highland city.

Glen Onwin, the owner, said: “We liked the idea of using basic materials and originally thought about using a turf roof but we decided to go for the agricultural roof with the curve. It was an important agricultural aesthetic that we wanted preserved.”

“On cost and aesthetics, the profiled sheeting product has a contemporary sharp look and being less expensive than equivalents such as slate.”

Sarah Johnson, Neil Sutherland Architects

Neil Sutherland Architects, who have used Marley Eternit profiled sheeting on many previous homes, aim to produce good contemporary architecture which is both fit for purpose and challenging while sustainable, healthy, fully integrated with the landscape and appropriate to its context.

Architect Sarah Johnston said: “We specified the Marley Eternit sheeting because of its low embodied energy in manufacture, its affordability and ability to absorb moisture which avoids the condensation issues typical of metal corrugated roofs, and its aesthetics in relation to surrounding agricultural buildings.

“We are now confident this roofing material is suitable for further domestic projects having successfully detailed the integration of elements such as velux roof lights, solar collectors and standard chimney flue sections.”

Project: Self-build house ‘Tuath North’

Location: near Inverness

Application: Housing

Product: Profile 6

Colour: Gunmetal Grey

Architect: Neil Sutherland Architects



Beach house transformed with profiled sheeting

A waterfront beach house on the Hampshire coastline has been sensitively renovated using Profile 3 and Farmscape fibre cement profiled sheeting from Marley Eternit.

The products' success was made evident by their inclusion by Chichester Harbour Conservancy in their Design Guide as a good example of a sensitive and contemporary development that protects the area's natural beauty.

The architect specified Profile 3 for use as cladding because of its shallower profile, which created a more subtle appearance as well as reducing heavy shadow lines. The sheets were fitted in landscape format to create a unique visual character to the building.

Farmscape in Anthracite was used for the pitched roof, which has an eaves extending nearly to ground level – a style of architecture found on some buildings exposed to coastal weather conditions.

Project:	Beach house
Location:	Hampshire
Application:	Housing
Products:	Farmscape in Anthracite Profile 3 in Natural Grey
Architect:	Sens
Contractor:	Paul Flint & Company

“Farmscape and Profile 3 from Marley Eternit helped reduce the visual impact of the refurbishment by giving it a more natural look from new.”

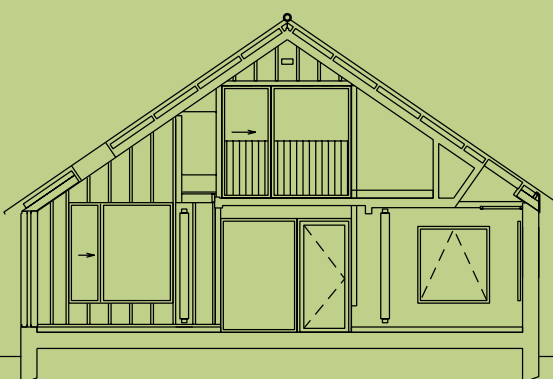
Eric Guilbert, Principal Architect, Sens



Farmscape, which is available in three colours, has a surface pigmentation applied to its top face giving it a textured, matt finish. This surface finish reduces the visual impact of the building by giving the profiled sheeting a more natural look from new.

Eric Guilbert, Project Architect at Sens, said: “The fibre cement profiled sheeting was therefore an integral element of ensuring the refurbished property was sympathetic with its surroundings.”

Marley Eternit fibre cement profiled sheeting is corrosion resistant due to the fact it has no metallic content, giving it a life expectancy of around 50 years. It is vapour permeable yet completely waterproof, which means that any moisture from inside the building can diffuse to the outside, limiting the amount of condensation and therefore potential damage to the roof structure.



Making fantasy into reality

Three types of fibre cement roofing and cladding materials from Marley Eternit were specified by education specialists Cottrell & Vermeulen Architecture to bring both aesthetics and practicality to the striking redevelopment of a nursery school in East London.

Kintore Way Children's Centre uses Marley Eternit's profiled sheeting on the roof and upper elevations and Operal rainscreen cladding on the lower elevations of a new extension as well as Rivendale slates on the roof of an existing 1930s nursery.

The multi-coloured roof of the new, snaking extension, focuses on green and blues to reflect the canopy of trees in a central courtyard and the nearby river.

The pitched elements of the roof are covered with Marley Eternit's fibre cement profiled sheeting painted in blue, green, white and orange and complemented by translucent GRP sheets. These are continued vertically down below the eaves and with the help of a concealed, inset gutter, create a strong enveloping roof form. Lower parts of the walls are clad with Marley Eternit's flat, fibre cement decorative rainscreen panel Operal.

“We wanted to create interest with colour to give a joyful environment.”

Catherine Skelcher, Cottrell & Vermeulen Architecture

Catherine Skelcher of Education specialists Cottrell and Vermeulen Architecture said: “The Operal panels are a smooth material which children can touch. They are a good way to economically create an environment with colour without resorting to decorating.

“The profiled sheeting to the roof and upper elevations where the children can't reach is more rugged. It was vital here that the material could be easily worked to follow the dogleg of the site. Unless you are going to use something like ceramic tiles, it had to be a material that could be cut.”



Project: Kintore Way nursery school

Location: East London

Application: Education

Product: Profile 6 in various colours

Architect: Cottrell & Vermeulen Architecture

Contractor: Jerram Falkus Construction



Profile 6 creates 'Awe-some' new hostel



A new hostel perched on the southern edge of Scotland's largest freshwater loch – Loch Awe in Argyll – is the latest project to use Marley Eternit's fibre cement Profile 6 sheeting.

“Profile 6 sheeting is cost-effective, maintenance-free and corrosion resistant, which should help the new hostel withstand the unpredictable local weather conditions.”

Joachim Brolly, building owner

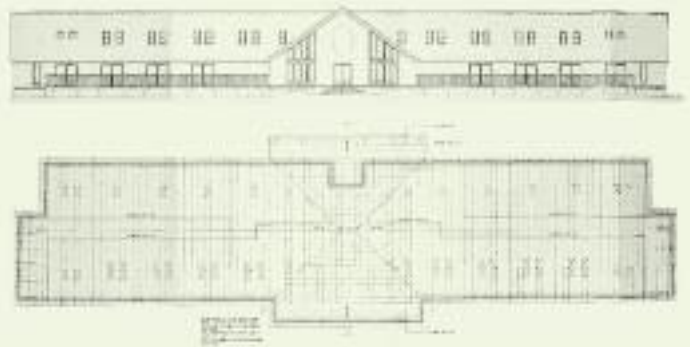
The building was designed by Skirling Design Studio of Innerleithen and constructed by Construction For All Ltd. A Blue finish was specified for the Profile 6 sheeting to ensure the building sat quietly in the unspoilt landscape.

The large, 1300m² roof was a key reason why the owner of the hostel specified Profile 6, as the sheets allow large expanses to be covered in a relatively short time-span.

This longevity has resulted in them being used extensively within the leisure sector.

Owner Joachim Brolly, said: “I have used Marley Eternit's Profile 6 sheeting for two other buildings and it has proved to be a huge success.”

Profile 6 sheeting has achieved British Board of Agrément Certificate 00/3700 and can be used on roof pitches as low as 5°. It can be used for roofing and vertical cladding in both single skin and insulated constructions.



Project:	Hostel
Location:	Loch Awe, Argyll
Application:	Leisure
Product:	Profile 6
Colour:	Blue
Architect:	Skirling Design Studio
Contractor:	Construction For All Limited



Profile 6 to the rescue at ‘super’ brick plant

Hanson, one of the world’s largest suppliers of construction materials, recently choose Marley Eternit Profile 6 sheets for its new £49m ‘super’ brick factory in Measham, Leicestershire.

Profile 6 was specified for the roof and cladding because it is a high strength fibre cement sheet that is unaffected by the humid and aggressive environments found in this type of plant. The sheets are able to withstand the 600 to 1000°C temperatures of the kilns and acidic atmosphere created by sulphur released from the clay during the brick making process.

This harsh environment is exacerbated by warm moist air from the kilns rising and condensing, creating an acidic and corrosive mixture. Profile 6 sheets, although watertight, are vapour permeable, significantly reducing the occurrence of this condensation. With no metallic content, they also have excellent corrosion resistance and are minimally affected by frost and climatic temperature changes, which gives them a design life of around 30 years.

Profile 6 sheets on the Measham plant were specified coloured both sides. The outside of the sheet was a non-standard green colour to ensure the building blended sympathetically with the surrounding countryside, whilst the white underside reflected more light internally creating a much brighter work environment.

“We have been delighted with the Profile 6 sheets from Marley Eternit as they created a long term solution to the aggressive environment found in our new plant. The company provided an excellent service, which helped us meet the demanding timescales on this project.”

Barry Cooper, Project Manager, Hanson

The overall size of the building is 80m x 300m giving a total roof area of around 24,000m².

The building was constructed by SDC of Bedford, acting as the main contractor on site whilst the Profile 6 sheets were fitted by A C Bacon.

Project:	Large brick factory
Location:	Measham, Leicestershire
Application:	Industrial
Product:	Profile 6
Colour:	Outside: non-standard green to blend in with local surroundings Inside: White to add more light
Contractor:	SDC / A C Bacon





First choice for compost plant



TEG Environmental was looking for a durable and cost effective roofing solution for its new high-tech in-vessel composting plant in Exeter and chose Marley Eternit's Profile 6 sheeting as the ideal solution.

The plant will produce approximately 10,000 tonnes of compost per annum, which produces high levels of humidity and relatively high temperatures caused by the composting process within the building.

This demanding environment required careful selection of materials, particularly the roof covering, where the warm humid air creates a corrosive effect on the building components.

Over 2,300m² of Marley Eternit's profiled sheeting in Natural Grey was used on the roof of the building, principally because the designers knew that it had performed excellently on similar projects within corrosive environments.

“We specified Marley Eternit's Profile 6 sheets for this building as it is a robust and durable product well suited to the environment found in composting plants.”

Nial Rees, Director of Special Projects, TEG Environmental

Marley Eternit's Profile 6 sheets have a high level of corrosion resistance as the fibre cement has no metallic content and is minimally affected by frost and climatic temperature changes. Although Profile 6 sheets are completely watertight, even against wind-driven rain, they remain vapour permeable.

The roof was designed with Marley Eternit's GRP translucent sheets to enable the owners to maximise the energy saving benefits of natural daylight in the building.

Project: Composting plant

Location: Exeter

Application: Industrial

Product: Profile 6

Colour: Natural Grey

Architect: TEG Environmental



Other profiled sheeting projects by Marley Eternit

- ↑ Private residential building, Profile 3, Isle of Skye
- ← Stables, Profile 6, Musselburgh
- ↓ Forestry Commission building, Profile 6, Inverness



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