

## McMullen Barracks, Hampshire

CA helps modernise the MoD



**Project:**

McMullen Barracks, Hampshire

**Client:** MoD

**Size:** 1492 m<sup>2</sup>

**Project Architect:** HLM Architects

**Main Contractor:** Debut

**Cladding Contractor:**

Crendon Roofing Services

**Material:** River-Therm® PVDF coated aluminium sheet

*As part of the £1bn programme Project SLAM, which aims to upgrade the MoD's Single Living Accommodation (SLA), McMullen Barracks in Hampshire were replaced with a new accommodation block with a River-Therm® roof.*

The port-based barracks, the home of the 18 Port and Maritime Regiment RLC where divers are trained to support field units in amphibious crossing were fully modernised. The new build has seen the old dormitory-style communal barracks replaced with single room en-suite accommodation. The national programme involves the modernisation of 16,000 bedspaces throughout the UK and is an important step for the



MoD as quality of accommodation and environment is one of the top five reasons given by service personnel for leaving the services.

The PVDF coated aluminium River-Therm® secret fix roof will ensure that there are no leaks into the building through the seam of the roof due to its unique drainage channel. One of the key benefits of all secret fix and standing seam systems is the ability of the side lap to breathe. However where air flow can pass, so can water. River-Therm® eliminated the risk of such leaks with

its engineered side lap incorporating a built-in drainage channel, ensuring that all rain water is channelled away to the eaves and into the guttering.

The River-Therm® sheet also meant that the roof was fully walkable despite its cold roof design. A cold roof design is the traditional form of pitched roof build up; the insulation layer is placed horizontally, directly above the ceiling of the upper story of the building, the River-Therm was then installed in a single skin application.



Unlike most other systems, which require high density insulation to allow foot traffic, the single skin River-Therm® is still fully walkable, due to the special grade of aluminium used and the lateral ribs that give it strength. This reduces the risk of damage to the roof from other trades and during any required maintenance.

The River-Therm® sheet also ensures that the building is PV ready. This means that at any time in the future the MoD can choose to add EliosSolar PV panels quickly and easily. The thin film laminate amorphous photovoltaic panels allow solar energy to be converted into usable electricity to reduce both energy costs and CO<sub>2</sub> emissions. The unique design of the panels means the panel is bonded to its own metal tray and then simply clipped into the roof profile.

The cladding and roofing contractor on the project; Crendon Roofing Services are known for their work with the MoD on Project SLAM and were pleased to be working with CA on this project as David Sheppard, General Manager explains: "its important to have a solid supply chain on any project and working with CA on McMullen ensured that the job went extremely well".

