



**ROLLALONG  
PERMANENT  
MODULAR  
CONSTRUCTION**



# RAF Cosford

## Junior Officers' Single Living Accommodation

Rollalong Ltd has been providing quality accommodation to the Ministry of Defence (MoD) for over 20 years, from single living accommodation across Salisbury Plain and Aldershot to a recently completed 5500m<sup>2</sup> Clinical facility at DMRC Headley Court, and is continuing to do so. RAF Cosford is the latest to benefit from Rollalong's vast experience by replacing existing accommodation with a new purpose-built link to the existing Combined Senior & Junior block.

The new 31 bed block is a Life Cycle Replacement project as the existing single storey timber structures had reached the end of their serviceable life, and new accommodation, linked to the current combined accommodation block, was considered the most preferable solution.

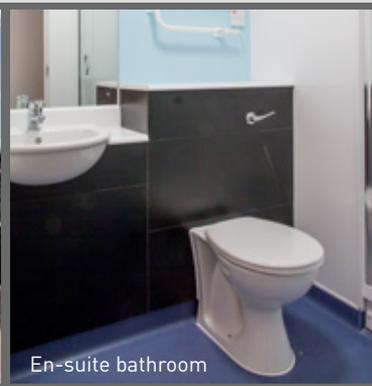
### The building comprises:-

- 29 single ensuite bedrooms
- 2 disabled ensuite bedrooms
- Utility rooms
- Drying rooms
- Bathrooms
- Cleaner's room
- Laundry room
- Entrance hall/stair lobby

In order to ensure accommodation capacity was maintained during the demolition of the existing accommodation; CarillionAmey (Central RPC), working on behalf of the Defence Infrastructure (DIO), the MoD's property and services provider, sought a turnkey solution. This strategy ensured that the initial concept planning, detailed design, planning process and project delivery could be achieved as quickly as possible.

### The design process considered the following points:

- Maintain full operational capacity during the proposed development
- Minimise impact on the operations at the facility
- Minimise the footprint of the building
- Match the external appearance of the adjoining structures
- Minimise disruption to the existing facilities and infrastructure
- Minimise the impact on the ecology of the site
- Provide level access to other areas as much as practically possible
- Minimise the amount of additional infrastructure required to support the facility – access roads, pavements, external lighting and utilities.
- Ensure new facility met JSP compliance.



The Rollalong design process has speed of design/construction at its core, utilising existing modular designs where possible to expedite a rapid design freeze and enable an operational facility to be handed over in the **quickest possible time**. The chosen design solution utilises off-site manufacture which **reduces construction traffic** to and from the site and **minimises site construction waste**.

The new accommodation block has been designed to match the existing building using a similar pallet of materials, colours and finishes. The external cladding is a brick clad with double glazed aluminium windows and duo pitched tiled roof. Spiral staircases will be provided at each end of the building to provide an emergency escape route from the 1st floor.

### Form Stability

As with any structural system the stability of the overall building is of paramount importance. In a modular construction. Stability is generated by the sum of all the components acting in unison. Therefore the extent of an economical modification will be determined by the size, shape, height, exposure and external loading of the building. This needs to be assessed on a building specific basis.

The project successfully completed in early June 2014.