

For every building surface inside and out, we've got it covered.



# Fremen College, Hertfordshire

Bowling Green Lane, Buntingford

## Information

Tor Coating system used:

 **Elastaseal™**

Guarantee

**25 years**

Area

**6,000m<sup>2</sup>**

Date completed

**2015**

## Background

The Fremen College is a coeducational upper school and sixth form for 13 to 18-year-olds, located in the Buntingford area of Hertfordshire.

## Challenge

The college has a number of buildings with roofs in poor condition. The original mineral felt membrane had become inadequate and no longer fit for purpose. There were a number of factors which also added to the poor condition of the school's roofs, including ineffective drainage - the water outlets were too narrow, meaning water was left to sit on top of the old, damaged felt, causing further deterioration. The college urgently needed an effective, long term roofing solution to waterproof and insulate the buildings roofs in line with current guidelines and legislation.

## Solution

The college found the perfect long term solution to these issues in the form of Elastaseal Warm Roof System from Tor Coatings, which could be applied and completed while causing no disruption to the pupils and staff of the Fremen College.

The roof was cleaned and prepared before the thermal insulation was affixed to the roof to reduce heat loss and increase the roof's thermal efficiency. The cold-liquid roof coating system was then applied to all areas of the roof, including sealing abutments, protrusions, vents and roof lights, to provide an overall waterproof membrane. Elastaseal is compatible with almost all other sound roofing materials so there was no need to strip out the existing roofing membrane; just two top coats of Elastaseal were applied to complete the system and prevent roof leaks for up to 25 years.

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Before



After

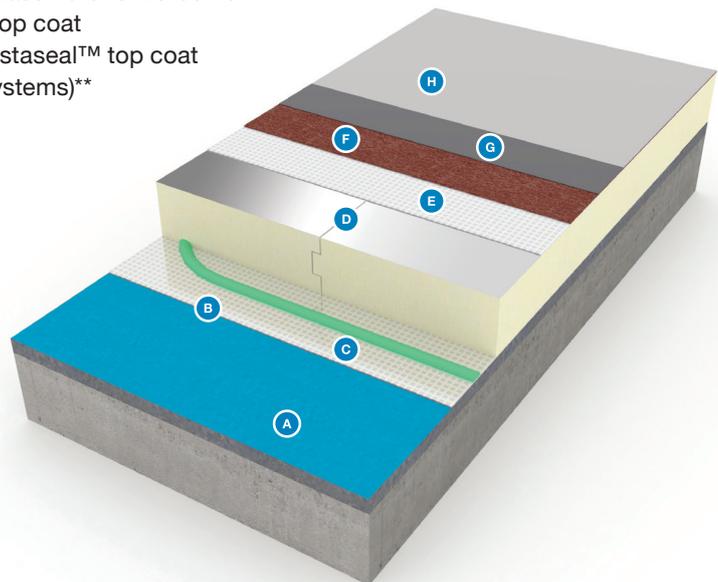
## Elastaseal™

### Key benefits:

- Cost effective
- Ideal roof refurbishment solution
- Improves thermal efficiency - reduces energy bills
- Relatively low weight loadings
- Provides all of the benefits of the Elastaseal™ system
- Tapered option improves drainage of rainwater
- Minimal disruption to building occupants during installation
- Systems up to 25 year life available
- Elastaseal™ Z low odour option (up to 30 year systems)
- The Elastaseal™ Z 20 & 25 systems require less coats and hence save time and money on site

### Typical build-up of the Elastaseal™ warm roof system

- A** Prepared existing roof substrate
- B** Torvap Vapour control layer\*
- C** Elastaseal™ FIA (foaming insulation adhesive)
- D** Tortherm™ Tongue & Groove Thermal insulation panel
- E** Torvap Carrier membrane
- F** Elastaseal™ embedment coat with Elastamat™ glass fibre reinforcement
- G** Elastaseal™ top coat
- H** Additional Elastaseal™ top coat (for 30 year systems)\*\*



- \* If required - dependent on existing roof condition
- \*\* Elastaseal™ Z system is fully interchangeable here providing a low odour warm roof system.

For more information and further case studies please visit [www.tor-coatings.com](http://www.tor-coatings.com)  
To speak to a member of the sales team call 0191 4106611 or email [marketing@tor-coatings.com](mailto:marketing@tor-coatings.com)