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Defender Thermaguard

Thermally efficient steel doors

Defender Thermaguard* technology is independently accredited to provide a value as low as 1.4W/m²K for a single doorset.

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Defender Thermaguard* technology has been developed to meet the increased demands for energy-efficient buildings as part of a greener future.

External doorsets face perhaps the most wide-ranging demands of any building envelope components: they need to be capable of withstanding the rigours of constant daily use through many years by legitimate personnel; provide security and protection from unwanted intruders, protection from fire and resistance to weather, whilst complementing the building aesthetics.

Thermaguard* technology includes a range of design innovations that reduce the U-value of a typical single doorset to as low as 1.4 W/m²K, meeting the latest requirements of the Building Regulations Part L in England, Scotland and Wales. These include a unique perforated frame design (UK Patent pending), insulated frame and increased leaf thickness. The design calculation has been provided by an accredited UKAS approved company using the simulation method as defined by the requirements of BS EN 10077-2:2017.

Our Thermaguard* technology can be applied to a number of our Defender doorset products and allows even more flexibility.

Current doorsets with this technology available are:

Defender Safeguard

Defender PASguard

Defender Decorguard

* Patent Pending

Defender Thermaguard* requires a minimum frame depth of 110mm and 60mm leaf for doors with 1.5 U-value and a minimum frame depth of 120mm and 70mm leaf for doors with 1.4 U-value.

