Review of Assessment Report Referenced WFRC No. 136418

1 Introduction

The assessment report referenced WFRC No. 136418 presents a considered opinion regarding the fire resistance performance of single-acting timber based doorsets, when fitted with Hager Companies' 'BB6191' butt hinges.

The doorsets, when fitted with the Hager Companies 'BB6191' butt hinges, would be required to satisfy the integrity (and insulation where relevant) performance requirements of BS 476: Part 22: 1987 for a period of 60 minutes.

The report concluded that previously fire tested (or assessed by Warrington Fire Research Centre) timber doorsets which have achieved 60 minutes integrity may be fitted with Hager Companies 'BB6191' butt hinges, without detracting from the overall performance of the doorset for 60 minutes integrity (and insulation where relevant).

2 Confirmation of Specification

It has been confirmed by Hager Companies that there have been no changes to the specification of the 'BB6191' butt hinges considered in the original appraisal referenced WFRC No. 136418, with the following exceptions:

1. The hinge blade material thickness has been increased from 2.8 mm to 3.0 mm
2. The hinge pin has changed from a 2 piece (top pin with bottom plug), to a 3 piece (top and bottom plug with a floating pin in the middle) design.

These modifications have been considered within the context of the fire resistance performance of the hinges and it has been concluded that the increase in material thickness is not likely to affect the hinges fire resistance performance.

The change of pin arrangement has not changed the pin diameter, so again is not considered to be detrimental to the previously appraised performance of the hinge. The modified hinge has been mechanically tested successfully to BS EN 1935: 2002, so there are no other concerns in terms of the design changes affecting the mechanical performance of the hinges.
3 Conclusions

The procedures adopted for the original assessment have also been re-examined and are similar to those currently in use.

Therefore, with respect to the assessment of performance given in WFRC No. 136418, the contents should remain valid until the 1st February 2015.

4 Validity

This review is based on information used to formulate the original assessment. No other information or data, other than that stated previously, has been provided by Hager Companies which could affect this review.

The original appraisal report was performed in accordance with the principles of the UK Fire Test Study Group Resolution 82: 2001.

Performed by: Reviewed By:

D Forshaw D. Hankinson
Certification Engineer Senior Certification Engineer
Exova Warringtonfire

This copy has been produced from a .pdf format electronic file that has been provided by Exova Warringtonfire to the sponsor of the report and must only be reproduced in full. Extracts or abridgements of reports must not be published without permission of Exova Warringtonfire. The original signed paper version of this report is the sole authentic version. Only original paper versions of this report bear authentic signatures of the responsible Exova Warringtonfire staff.