

## **Supplement No. 9 to WARRES No. 114055**

### 1 **Introduction**

The report WARRES No. 114055 concluded that in our opinion, all of the flame retardant grade medium density fibreboard products having a thickness of between 10mm and 18mm within the "Firax" range will achieve a Class 1 designation if they were tested in accordance with BS 476: Part 7: 1997.

At the date of issue of the original assessment report, the "Firax" range of flame retardant grade, medium density fibreboard products was only available at a thickness range of from 10mm to 18mm. However, during the audit visit that was conducted at the sponsor's manufacturing plant in Vielsalm, Belgium on the 5<sup>th</sup> October 2001, the purpose of which was to extend the validity of the assessment report until October 2002, it was determined that the "Firax" range of flame retardant grade, medium density fibreboard products was now available at a thickness range of from 6mm to 25mm. During this audit visit, the sponsor requested that the conclusions contained within our report WARRES No. 114055 be extended to include all product thicknesses available at that time.

To extend the conclusions contained within our report WARRES No. 114055, a single indicative BS 476: Part 7: 1997 test was performed on each of the following thicknesses of medium density fibreboard products from the "Firax" range - 6mm, 9mm, 12mm, 15mm, 18mm & 25mm.

In the case of each specimen, the maximum flame travel did not exceed 50mm. Therefore, the main opinion contained within the assessment report was extended to cover all products within the thickness range from 6mm to 25mm. The results of these tests are fully reported in Supplement No. 1 to WARRES No. 114055.

Supplement No. 1 to WARRES No. 114055 confirmed that it was our opinion that the conclusions contained within our report WARRES No. 114055 continued to be valid for a further period of twelve months (up to October 2002) and could be extended to include all products having a thickness between 6mm and 25mm.

Supplement No. 2 & No. 3 to WARRES No. 114055 confirmed that it was our opinion that the conclusions contained within our report WARRES No. 114055 continued to be valid for a further period of twelve months (up to October 2003 and October 2004 respectively) and could be extended to include all products having a thickness between 6mm and 25mm.

During discussions about the selection of samples for the October 2004 revalidation programme, it was determined that the "Firax" range of flame retardant grade, medium density fibreboard products was now available at a thickness range of from 6mm to 30mm. A representative of the sponsor confirmed that the "Firax" range is currently being manufactured in standard thicknesses of 6mm, 9mm, 10mm, 12mm, 15mm, 18mm, 25mm and 30mm, however, thicknesses of 19mm and 22mm are now being produced at the specific request of some of the sponsor's clients. The sponsor requested that the conclusions contained within our report WARRES No. 114055 be extended to include all product thicknesses available at that time.

To extend the conclusions contained within our report WARRES No. 114055, The following thicknesses of flame retardant grade, medium density fibreboard products were selected for testing by the sponsor under the guidance of Warrington Fire Research Centre:

1. 6mm
2. 12mm
3. 19mm
4. 22mm
5. 30mm

One specimen of the 6mm, 12mm, 19mm and 22mm products and two specimens of the 30mm thick product were tested to BS 476: Part 7: 1997, resulting in a total of six specimens being tested.

In the case of each specimen, the maximum flame travel did not exceed 60mm. Therefore, the main opinion contained within the assessment report was extended to cover all products within the thickness range from 6mm to 30mm. The results of these tests are fully reported in Supplement No. 4 to WARRES No. 114055.

Supplement No. 4 to WARRES No. 114055 confirmed that it was our opinion that the conclusions contained within our report WARRES No. 114055 continued to be valid for a further period of twelve months (up to October 2005) and could be extended to include all products having a thickness between 6mm and 30mm.

Supplement No. 5 to WARRES No. 114055 confirmed that it was our opinion that the conclusions contained within our report WARRES No. 114055 continued to be valid for a further period of twelve months (up to October 2006) and could be extended to include all products having a thickness between 6mm and 30mm.

Supplement No. 6 to WARRES No. 114055 confirmed that it was our opinion that the conclusions contained within our report WARRES No. 114055 continued to be valid for a further period of twelve months (up to October 2007) and could be extended to include all products having a thickness between 6mm and 30mm.

Supplement No. 7 to WARRES No. 114055 confirmed that it was our opinion that the conclusions contained within our report WARRES No. 114055 continued to be valid for a further period of twelve months (up to October 2008) and could be extended to include all products having a thickness between 6mm and 30mm.

Supplement No. 8 to WARRES No. 114055 confirmed that it was our opinion that the conclusions contained within our report WARRES No. 114055 continued to be valid for a further period of twelve months (up to October 2009) and could be extended to include all products having a thickness between 6mm and 30mm.

## 2 Validity Of Report

Following a period of one year after the assessment report was issued, it was agreed that testing on specimens comprising products selected at random from the "Firax" range by representatives of Warrington Fire Research Centre, would be carried out to maintain the validity of the report. The specimens were selected by a representative of Warrington Fire Research Centre during the audit visit referred to above (October 2001) and the test results obtained on the selected specimens were reported in Supplement No. 1 to WARRES No. 114055.

Subsequent to the first validation of the assessment report, it was agreed that testing on specimens comprising products selected at random from the "Firax" range by the sponsor under the guidance of Warrington Fire Research Centre, would be carried out on a twelve monthly basis commencing in October 2002 to maintain the validity of the report.

## 3 Selection Of Products For October 2009 Tests

The following thicknesses of flame retardant grade, medium density fibreboard products were selected for testing by the sponsor under the guidance of **Bodycote warringtonfire**:

1. 6mm
2. 9mm
3. 15mm
4. 18mm
5. 19mm
6. 25mm

One specimen of each selected product was tested to BS 476: Part 7: 1997, resulting in a total of six specimens being tested.

## 4 Results Of Tests

The flame spread at 1½ minutes and the final spread of flame for each specimen when it was tested in accordance with the procedures specified in BS 476: Part 7: 1997, were as follows:

PRODUCT THICKNESS	BS 476: PART 7: 1997		SUPPLEMENTARY OBSERVATIONS
	Flame spread at 1½ minutes (mm)	Final Flame Spread (mm)	
6mm	70	70	NONE
9mm	60	60	NONE
15mm	60	60	NONE
18mm	60	60	NONE
19mm	70	70	NONE
25mm	65	65	NONE

The results of the tests meet the performance criteria specified in Section 1 of WARRES No. 114055.

**5 Opinion**

On the basis of the information, which has been generated during the test programme which is described in this supplement, it is our opinion that the conclusions contained within our report WARRES No. 114055 and Supplement No.'s 1, 2, 3, 4, 5, 6, 7 and 8 to WARRES No. 114055 continue to be valid for a further period of twelve months and can be extended to include products having a maximum thickness of 30mm.

The above opinion includes all products within the "Firax" range of flame retardant grade medium density fibre boards having a thickness of between 6mm and 30mm.

**6 Validity Of Opinion**

The above opinion relates only to the specimens of the product in the form described in this supplement and our report WARRES No. 114055, and is based on information and experience available at the time of preparation of the supplement and the report. Small differences in the composition of the medium density fibreboard may significantly affect the performance during the test and will therefore invalidate the test results. It is the responsibility of the supplier of the product to ensure that the product, which is supplied, is identical to the specimens described in this Supplement and the report.

After October 2010, this opinion is no longer valid unless confirmed by a Supplement to the report describing satisfactory results of the testing scheduled to be carried out during that month.

This Supplement is only valid if read in conjunction with the Assessment Report WARRES No. 114055.

**Supplement Prepared By:****Approved****S DEEMING**

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Reaction to Fire Testing

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Deputy Operations Manager  
for and on behalf of  
**Bodycote warringtonfire**

**Date of Issue:**

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