



SIRIM QAS International Sdn. Bhd.

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TEST REPORT


REPORT NO.: 2006FE0054

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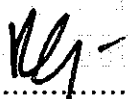
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Our Ref : SQAS / FET / 15 / 1 - 6
Issued by : **Fire Engineering Testing Section**
Issued date : **24 FEB 2006**
Product : **GI SHEET**
Reference Standard/ Method of test : **BS 476 : Part 7: 1997**
Fire Test on Building Materials and Structures
Part 7: Surface Spread of Flame Test.
Applicant : **GROUP STEEL (M) SDN. BHD.**
180, Kawasan Industri Ayer Keroh,
75450 Ayer Keroh,
Melaka.
(Attn: Mr. Lew Ren Shang)
Description of sample : **6 pieces of GI Sheets.**
Size of Specimen : **270mm × 885mm × 0.42mm (measured thickness)**
Nominal Thickness : **0.42mm**
Density : **8180 kg/m³**

The specimens were tested with the face side exposed to the specified heating conditions of the fire test.
Date received : 15.02.2006
Job No. : J2006 506 0040


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HISYAM HISHAMUDDIN
Technical Executive




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ROHAYA IBRAHIM
Senior Manager
Fire Engineering Testing Section
Testing Services Department
SIRIM QAS International Sdn. Bhd.

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Name of Applicant : Group Steel (M) Sdn.Bhd.

Product : GI Sheet

Nominal Thickness : 0.42mm

Measured Thickness : 0.42mm

Density : 8180 kg/m³

Requirement

The flame spread on any specimen of the sample shall not exceed the limit assigned for the class with the proviso that for one specimen only in the sample the flame spread may exceed this limit by the tolerance shown.

Classification of Surface Spread of Flame

Classification	Flame Spread at 1½ min		Final Flame Spread	
	Limit (mm)	Tolerance for one specimen in sample (mm)	Limit (mm)	Tolerance for one specimen in sample (mm)
Class 1	165	25	165	25
Class 2	215	25	455	45
Class 3	265	25	710	75
Class 4	Exceeding Class 3 limits			



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Test Results

Product	: GI Sheet	Density	: 8180 kg/m ³
Nominal Thickness	: 0.42mm	Date of Test	: 22.02.2006
Measured Thickness	: 0.42mm		

Specimen No.	1	2	3	4	5	6
Spread of flame at 1½ minutes (mm)	0	0	0	0	0	0
Distance (mm)	Time of spread of flame to indicated distance (minutes . seconds)					
75	-	-	-	-	-	-
165	-	-	-	-	-	-
190	-	-	-	-	-	-
215	-	-	-	-	-	-
240	-	-	-	-	-	-
265	-	-	-	-	-	-
290	-	-	-	-	-	-
375	-	-	-	-	-	-
455	-	-	-	-	-	-
500	-	-	-	-	-	-
525	-	-	-	-	-	-
600	-	-	-	-	-	-
675	-	-	-	-	-	-
710	-	-	-	-	-	-
750	-	-	-	-	-	-
785	-	-	-	-	-	-
825	-	-	-	-	-	-
865	-	-	-	-	-	-
Time of maximum spread of flame (minutes . seconds)	-	-	-	-	-	-
Distance of maximum spread of flame (mm)	0	0	0	0	0	0

Conclusion

In accordance with the class definition specified in the standard, the test results show that the sample tested has a Class **One** Surface Spread of Flame.

The test results relate only to the behaviour of the test specimens of a product under the particular conditions of test; they are not intended to be sole criterion for assessing the potential fire hazard of the product in use.



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24 FEB 2006