

SIRIM QAS International Sdn. Bhd.

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## **TEST REPORT**

REPORT NO.:

2008FE0282

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Our Ref

: SQAS/FET/15/1-6

Issued by

Fire Protection Section

Issued date

2 7 **NOV** 2008

Product

GALVANIZED IRON 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 CORP. (M) SDN. BHD.

180 Kawasan Industri Ayer Keroh,

Ayer Keroh, 45450 Melaka.

(Attn: Mr. Lew Ren Shang)

Description of sample

6 pieces of Galvanized Iron Sheets.

Size of Specimen

: 270mm × 885mm × 1.92 mm (measured thickness)

Nominal Thickness

: 1.90 mm

Density

:  $7778 \text{ kg/m}^3$ 

The specimens were tested with one the face side exposed to the specified heating

condition of the fire test.

Date received

24.06.2008

Job No.

: J2008 506 0142

WAN MOHD KHAIRI WAN YAHYA

Testing Executive

FIRE PROTECTION OF SECTION OF SEC

ZAINI AHMAD

Group Leader
FPST Testing Group
Fire Protection Section

Product Certification, Inspection and Testing Department SIRIM QAS International Sdn. Bhd.

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Name of Applicant

GROUP STEEL CORP. (M) SDN. BHD.

Product

GALVANIZED IRON SHEET

**Nominal Thickness** 

1.90 mm

**Measured Thickness** 

1.92 mm

Density

7778 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 : GALVANIZED IRON SHEET

Nominal Thickness : 1.90 mm Density : 7778 kg/m<sup>3</sup>

Measured Thickness : 1.92 mm Date of Test : 18.11.2008

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	_	<del>-</del> .	: , <del>-</del>	-	<u>-</u>	-		
165	-	-	. <del>.</del>		-	-		
190	-	-	-	-	<b>-</b> . ,	· -		
215	_	-	-		-	· -		
240	-	<b>-</b>		-	-	-		
265	_	-	-	-		-		
290	<b>.</b> .	-	-	-		. =		
375	-	-		-		. <u>-</u>		
455	-	-	-		<del>-</del> .	-		
500	-	-		-	_	-		
525	-	-	3 -	<del>-</del>	-	-		
- 600	-	-		-	<del>-</del>	<u>-</u>		
675	-	-	-	-	<b>-</b> :	-		
710		-	-	<del>-</del>	-	-		
750			-		<b>-</b>	-		
785	-	-	<b>-</b> .	. <del>-</del>	<del>-</del> :	<b></b>		
825	-	-	-	· · · -	-	-		
865				-	-	-		
Time of maximum	:							
spread of flame	- :	-		-	-	-		
(minutes . seconds)  Distance of								
maximum spread of	0	0	0	0	0	0		
flame (mm)		]			: "	: · · · · · · · · · · · · · · · · · · ·		

#### 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.

