

GUANGZHOU 30 TRADING CO., LTD.  
 ROOM 1102, GUANGDONG NONGXIN BUILDING, NO.638, WEST HUANGPU AVENUE, GUANGZHOU,  
 GUANGDONG, CHINA

Sample Description : DURA ALUMINIUM BEARER AND PEDESTAL  
 Style / Item No. : RC02003/RC02004/RC02005/DDAS0301/DDAS0302/DDAS0303/  
 DDAS0304/DDAS0305/DDAS0306/DDAS0307  
 P.O. / Ref. No. : 25X48 BEARER, 50X48 BEARER, 75X48 BEARER, 25.5mm PEDESTAL,  
 50.5mm PEDESTAL, 85.5mm PEDESTAL, 117.5mm PEDESTAL,  
 152.5mm PEDESTAL, 187.5mm PEDESTAL, 222.5mm PEDESTAL  
 Buyer : DURA COMPOSITES LTD  
 Manufacturer : DURA COMPOSITES LTD  
 Country of Origin : CHINA  
 Country of Destination : UK  
 Other Info : 6063 T6 ALUMINIUM

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

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SGS Ref No. : SDFS2006003195FF  
 Sample Receiving Date : Jun 04, 2020  
 Test Performing Date : Jun 04, 2020 to Jun 16, 2020

**Test Result Summary**

Test(s) Requested	Result(s)
EN 13501-1:2018 Fire classification of construction products and building elements-Part 1: Classification using data from reaction to fire tests	Classification: A2fl-s1

**Summary:**

1. For further details, please refer to the following page(s).



SGS-CSTC Inspection & Testing Services Co., Ltd.  
 Guangzhou Branch Testing Center Headlines

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Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Arthur Mak  
Authorized Signatory



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a. 安装方法的英文描述:

Sample description:

Dura Painted Aluminium Bearer and Pedestal, which were tested as a "built up system" in conjunction with the 25x48 Bearer and the 85.5mm Pedestal assembled.

b. 表格信息

General description		Coated Dura Aluminium Bearer and Pedestal
Product reference		25x48 Bearer, 50x48 Bearer, 75x48 Bearer, 25.5mm Pedestal, 50.5mm Pedestal, 85.5mm Pedestal, 117.5mm Pedestal, 152.5mm Pedestal, 187.5mm Pedestal, 222.5mm Pedestal
Name of manufacturer		Dura Composites Ltd
Powder Coating Finish	Generic type	Powder coating
	Powder item	JZ721-S49310(TM7151FT)
	Name of manufacturer	Huajiang
	Colour reference	RAL 7043 Anthracite
	Number of coats	1
	Application rate per coat(g/m <sup>2</sup> )	170 g/m <sup>2</sup>
	Density / specific gravity	1.2-1.7g/cm <sup>3</sup>
	Application method	Electrostatically applied and then cured under heat
	Flame retardant details	<b>See Note 1 Below</b>
	Generic type	Structural plank profile made of Aluminium Alloy 6063 T6
Aluminium	Product reference	Aluminium Bearer and Pedestal
	Name of manufacturer	Dura Composites Ltd
	Weight per unit area(kg/m <sup>2</sup> )	20.56 kg/m <sup>2</sup>
	Density	2.7g/cm <sup>3</sup>
	Flame retardant details	<b>See Note 1 Below</b>
Aluminium is extruded from raw material into a profile, then coated with powder coat paint		
<b>Note 1:</b> The sponsor of the test has confirmed that no flame-retardant additives were utilized in the production of the product.		



**TESTS AND RESULTS**

**Test Conducted:**

This test is conducted as per EN 13501-1:2018 Fire classification of construction products and building elements-Part 1: Classification using data from reaction to fire tests.

And the test methods as following:

1. EN ISO 1716:2010 Reaction to fire tests for products-Determination of the gross heat of combustion. (Calorific Value).
2. EN ISO 9239-1:2010 Reaction to fire tests for floorings-Part 1: Determination of the burning behaviour using a radiant heat source.

Test method	Parameter	Number of tests	Results
EN ISO 1716:2010	For the product as a whole <sup>d</sup> : Heat of Combustion -PCS	3	0.3MJ/kg
	Aluminum board <sup>a</sup> : Heat of Combustion -PCS		0MJ/kg*
	Coating <sup>b</sup> : Heat of Combustion -PCS		3.1MJ/m <sup>2</sup>
EN ISO 9239-1:2010	The mean value for the critical heat flux (CHF) from the same orientation	3	≥11kW/m <sup>2</sup>
	Smoking measurement Integrated smoke value		24.7% × min
	Comments and Observation		Charring

Remark:

PCS-gross heat of combustion [MJ/kg or MJ/m<sup>2</sup>]

\*- Metallic components shall not be tested. Where metallic components are present, their gross heat of combustion shall be deemed to be zero

- 1). Specimens that do not ignite or which spread flame less than 110 mm have a critical heat flux ≥ 11kW/m<sup>2</sup>
- 2). Above value is the mean value for the critical flux (CHF and/or HF-30) from the three same orientation specimens.

**Classification and direct field of application**

This classification has been carried out in accordance with **EN 13501-1:2018**.

**Classification:**

Fire behaviour	Smoke production	
A2 <sub>fl</sub>	s	1

Remark:

The classes with their corresponding fire performance are given in Table 2.

Reaction to fire classification is based on the 7-step scale of A1<sub>fl</sub> to F<sub>fl</sub>, where A1<sub>fl</sub> is good and F<sub>fl</sub> is bad.





**Statement:**

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

**Warning:**

This classification report does not represent type approval or certification of the product. The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.

Table 2-Classes of reaction to fire performance for floorings

Class	Test method(s)	Classification criteria	Additional classification
A1 <sub>fl</sub>	EN ISO 1182 <sup>a</sup> and	$\Delta T \leq 30 \text{ }^\circ\text{C}$ ; and $\Delta m \leq 50 \%$ ; and $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \leq 2,0 \text{ MJ/kg}^a$ and $PCS \leq 2,0 \text{ MJ/kg}^b$ and $PCS \leq 1,4 \text{ MJ/m}^2^c$ and $PCS \leq 2,0 \text{ MJ/kg}^d$	-
A2 <sub>fl</sub>	EN ISO 1182 <sup>a</sup> or	$\Delta T \leq 50 \text{ }^\circ\text{C}$ and $\Delta m \leq 50 \%$ and $t_f \leq 20 \text{ s}$	-
	EN ISO 1716 and	$PCS \leq 3,0 \text{ MJ/kg}^a$ and $PCS \leq 4,0 \text{ MJ/m}^2^b$ and $PCS \leq 4,0 \text{ MJ/m}^2^c$ and $PCS \leq 3,0 \text{ MJ/kg}^d$	-
	EN ISO 9239-1 <sup>e</sup>	Critical flux $f \geq 8,0 \text{ kW/m}^2$	Smoke production <sup>g</sup>
B <sub>fl</sub>	EN ISO 9239-1 <sup>e</sup> and	Critical flux $f \geq 8,0 \text{ kW/m}^2$	Smoke production <sup>g</sup>
	EN ISO 11925-2 <sup>h</sup> : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-
C <sub>fl</sub>	EN ISO 9239-1 <sup>e</sup> and	Critical flux $f \geq 4,5 \text{ kW/m}^2$	Smoke production <sup>g</sup>
	EN ISO 11925-2 <sup>h</sup> : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-
D <sub>fl</sub>	EN ISO 9239-1 <sup>e</sup> and	Critical flux $f \geq 3,0 \text{ kW/m}^2$	Smoke production <sup>g</sup>
	EN ISO 11925-2 <sup>h</sup> : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-
E <sub>fl</sub>	EN ISO 11925-2 <sup>h</sup> : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-
F <sub>fl</sub>	EN ISO 11925-2 <sup>h</sup> : Exposure = 15 s	$F_s > 150 \text{ mm}$ within 20 s	-



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- <sup>a</sup> For homogeneous products and substantial components of non-homogeneous products.
- <sup>b</sup> For any external non-substantial component of non-homogeneous products.
- <sup>c</sup> For any internal non-substantial component of non-homogeneous products.
- <sup>d</sup> For the product as a whole.
- <sup>e</sup> Test duration = 30 min.
- <sup>f</sup> Critical flux is defined as the radiant flux at which the flame extinguishes or the radiant flux after a test period of 30 min, whichever is the lower (i.e. the flux corresponding with the furthest extent of spread of flame).
- <sup>g</sup> s1 = Smoke ≤ 750 % minutes;  
s2 = not s1.
- <sup>h</sup> Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack

**Remark:**

1. This test was subcontracted to SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch.
2. This test report is to supersede No. GZHL2005017175OT-01 test report which was issued on Jun 23, 2020. And the original test reports (paper and electronic) are invalid.



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**SAMPLE INFORMATION AND PICTURES**

- Thickness of the sample: About 25 mm
- Area density of the sample: About 6.92 kg/m<sup>2</sup>
- ★Area density of the aluminum board: 20.56 kg/m<sup>2</sup>
- ★Area density of the coating: 0.17 kg/m<sup>2</sup>

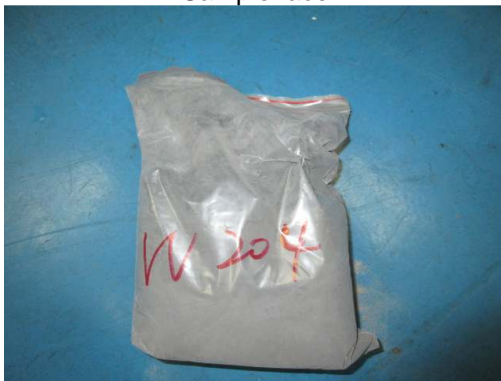
The above data and information with ★ was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion. results apply to the sample as received.



Sample face



Sample back



Coating



Product

\*\*\*End of Report\*\*\*

