

**Applicant:** PT. Sumatera Prima Fibreboard

**Address:** Palembang - Indonesia

**Product description:** MDF Fire retardant board; Trade: Prima FR, Material: Rubber,  
Colour: Light Brown, Intend use: building material doors, Thickness: 6mm

**Standard:** GB 8624-2012 Fire classification of construction products and building elements

**Testing Lab:** TUV (the lab is recognized by CNAS with number L6069)

**Date of Issue:** 2020-02-19

**Test Data:**

**Certificate ID code:** TC.20.01.000213, **Customer ID code:** 2145

Test Items	Test results	Requirements of Class B1(B-s1,d0)
GB/T 20284-2006	FIGRA <sub>0.2MJ</sub> =49.2 W/s THR <sub>600s</sub> =4.6 MJ LFS<the edge of specimen SMOGRA=4.0 m <sup>2</sup> /s <sup>2</sup> TSP <sub>600s</sub> = 48.0 m <sup>2</sup> No flaming particles or droplets within 600s	FIGRA <sub>0.2MJ</sub> ≤120 W/s THR <sub>600s</sub> ≤7.5 MJ LFS< the edge of specimen s1: SMOGRA≤30 m <sup>2</sup> /s <sup>2</sup> TSP <sub>600s</sub> ≤ 50 m <sup>2</sup> d0: No flaming particles or droplets within 600s
GB/T 8626-2007	F <sub>s</sub> <150mm within 60s No ignition of the paper within 60s	F <sub>s</sub> <150mm within 60s No ignition of the paper within 60s

**Conclusion:** the above results indicate to comply with the requirements of  
**GB 8624-2012 Class B1(B-s1, d0).**

**Certificate search:**

**Option 1: Website ([www.fire-test.com/en](http://www.fire-test.com/en))**

1. Click [www.fire-test.com/en](http://www.fire-test.com/en)
2. Select “search for Certification”
3. Put the Certificate ID code (TC.20.01.000213) and applicant name (PT.Sumatera Prima Fibreboard)
4. Click “submit”

**Option 2: WeChat Official/Public Accounts-“firetest” or “睿督防火测试”**

1. Select WeChat, search for WeChat Official/Public Accounts of “firetest”/“睿督防火测试” or scan the QR code below to follow
2. Select "Technical Support" - " search for Certification "
  - a. Put the Certificate ID code (TC.20.01.000213) and Customer ID code (2145)
  - b. Put the Certificate ID code (TC.20.01.000213) and applicant name (PT.Sumatera Prima Fibreboard)
3. Submit with confirmation, you may get the search information.

**Value-added services:**

You can search for “firetest” or scan the QR code below to follow or our WeChat Official/Public Accounts to learn more about the relevant standards and regulations for fire retardant testing of rail transit vehicles or building materials, moreover, and you can also ask for supporting, search for a result or reports and certificate enquiries, standards sharing and downloads on the WeChat Official/Public Accounts. Join us!





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**Report No.** TC.20.01.000213

**Date of Issue** 02/19/2020

**Applicant:** PT. Sumatera Prima Fibreboard

**Applicant address:** Palembang-Indonesia

**Description of the test subject:**

Sample	Description	Photo
001	Sample Description: MDF (Medium Density Fibreboard) Product  Thickness: 6mm	

**Receipt Date of Sample:** 01/15/2020

**Date of Testing:** From 01/15/2020 to 02/19/2020

**Sample submitted:** The sample(s) was (were) submitted by applicant and identified.

**Conclusion:**

Test Items			Result
No.	Items	Standard	
1	Fire classification of construction products and building elements	GB 8624-2012	B1(B-s1,d0)

Note: (1) General Terms & Conditions as mentioned overleaf,(2)The results relate only to the items tested,(3)The test report shall not be reproduced except in full without the written approval of the company. (4) Samples are tested as received.

Changzhou Jinbiao Railway  
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Report No. TC.20.01.000213

Date of Issue 02/19/2020

### Test Results

#### GB 8624-2012 Fire classification of construction products and building elements

#### 1. GB/T 20284-2006 reaction to fire tests for building products – building products excluding floorings exposed to the thermal attack by a single burning item

##### 1.1 Sample describe

Sample size	Long limb:1500mm×1000mm
	Short limb:1500mm×495mm
Thickness	About <u>6.0</u> mm

Precondition	Temperature (°C)	Humidity (%)	Duration (h)
	23±2	50±5	24

##### 1.2 Results

	1	2	3	Average
FIGRA <sub>0.2MJ</sub> (W/S)	49.1	48.4	50.2	49.2
FIGRA <sub>0.4MJ</sub> (W/S)	49.1	48.4	50.2	49.2
The flame reach the edge of specimen	No	No	No	--
THR <sub>600s</sub> (MJ)	4.6	4.5	4.8	4.6
SMOGRA(m <sup>2</sup> /s <sup>2</sup> )	4.0	3.8	4.3	4.0
TSP <sub>600s</sub> (m <sup>2</sup> )	48.5	46.2	49.2	48.0
Flaming particles or droplets	No	No	No	--
observe	Burn through, Carbonization spalling			

**Remark:** The sample is placed on the base material, which is gypsum board.

FIGRA<sub>0.2MJ</sub>= Maximum of the quotient of heat release rate from the specimen and the time of its occurrence using a *THR*-threshold of 0,2 MJ.

FIGRA<sub>0.4MJ</sub>= Maximum of the quotient of heat release rate from the specimen and the time of its occurrence using a *THR* threshold of 0,4 MJ.

LFS= Lateral flame spread on the long specimen wing.

THR<sub>600s</sub>= Total heat release from the specimen in the first 600 s of exposure to the main (primary) burner flames.

SMOGRA= Smoke growth rate: Maximum of the quotient of smoke production rate from the specimen and the time of its occurrence.

TSP<sub>600s</sub>= Total smoke production from the specimen in the first 600 s of exposure to the main (primary) burner Flames.

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Date of Issue 02/19/2020

**2. GB/T 8626-2007 Reaction to fire tests- ignitability of building products subjected to direct impingement of flame- part2: single-flame source**

**2.1 Sample describe**

Sample size	250mm×90mm
Thickness	About <u>6.0</u> mm

Precondition	Temperature (°C)	Humidity (%)	Duration (h)
	23±2	50±5	48

**2.2 Results**

**Edge ignition:**

Sample	Direction 1		
	1	2	3
Whether ignition occurs (Y/N)	N	N	N
Whether the flame tip reaches 150mm above the flame application point (Y/N)	N	N	N
The time of the flame tip reaches 150mm above the flame application point(s).	--	--	--
Whether ignition of the filter paper occurs(Y/N)	N	N	N

**Face ignition:**

Sample	Direction 1		
	1	2	3
Whether ignition occurs (Y/N)	N	N	N
Whether the flame tip reaches 150mm above the flame application point (Y/N)	N	N	N
The time of the flame tip reaches 150mm above the flame application point(s).	--	--	--
Whether ignition of the filter paper occurs(Y/N)	N	N	N

Remark: Y-Yes  
N-No

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Date of Issue 02/19/2020

**GB 8624-2012 table 2 - classification:**

Classification		Test method	Classification criteria
B1	B	GB/T 20284 and	FIGRA <sub>0.2MJ</sub> ≤120W/S; LFS<edge of specimen, THR600≤7.5 MJ
		GB/T 8626 Exposure = 30s	Fs ≤ 150mm within 60s No ignition of the paper within 60s
	C	GB/T 20284 and	FIGRA <sub>0.4MJ</sub> ≤250W/S; LFS<edge of specimen, THR600≤15 MJ
		GB/T 8626 Exposure = 30s	Fs ≤ 150mm within 60s No ignition of the paper within 60s

Addition test	Smoke	s1	SMOGRA≤ 30 m <sup>2</sup> /s <sup>2</sup> , TSP600≤50m <sup>2</sup>
		s2	SMOGRA≤ 180 m <sup>2</sup> /s <sup>2</sup> , TSP600≤200m <sup>2</sup>
		s3	Not reached S1 or S2
	Particles or droplets	d0	No flaming particles or droplets within 600s
		d1	Flaming particles or droplets within 600s, duration of time not exceed 10s
		d2	Not reached d0 or d1

**Conclusion:**

Test standard	Record	Conclusion
GB/T 20284	FIGRA <sub>0.2MJ</sub> =49.2 W/S LFS < Sample edge THR <sub>600s</sub> =4.6 MJ SMOGRA=4.0 m <sup>2</sup> /s <sup>2</sup> TSP600=48.0 m <sup>2</sup> No flaming particles or droplets within 600s	B1(B-s1,d0)
GB/T 8626	FS≤150mm within 60s No ignition of the paper within 60s	

**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 smoke and toxicity hazard of the product in use.

Test results are just for client internal reference.

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**Date of Issue 02/19/2020**

Changzhou Jinbiao Railway Transportation Technical Service Co., Ltd.

Drafted by:

Lynn liu

Approved by:

Shen hui

-End of Report-

Note: (1) General Terms & Conditions as mentioned overleaf,(2)The results relate only to the items tested,(3)The test report shall not be reproduced except in full without the written approval of the company. (4) Samples are tested as received.

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District, Changzhou city, Jiangsu Province,  
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5 of 5

TUV®

**Applicant:** PT. Sumatera Prima Fibreboard

**Address:** Palembang - Indonesia

**Product description:** MDF Fire retardant board; Trade: Prima FR, Material: Rubber,  
Colour: Light Brown, Intend use: building material doors, Thickness: 18mm

**Standard:** GB 8624-2012 Fire classification of construction products and building elements

**Testing Lab:** TUV (the lab is recognized by CNAS with number L6069)

**Date of Issue:** 2020-02-19

**Test Data:**

**Certificate ID code:** TC.20.01.000212, **Customer ID code:** 2144

Test Items	Test results	Requirements of Class B1(B-s1,d0)
GB/T 20284-2006	$FIGRA_{0.2MJ}=48.6 \text{ W/s}$ $THR_{600s}=4.3 \text{ MJ}$ LFS<the edge of specimen $SMOGRA=0 \text{ m}^2/\text{s}^2$ $TSP_{600s} = 22.5 \text{ m}^2$ No flaming particles or droplets within 600s	$FIGRA_{0.2MJ} \leq 120 \text{ W/s}$ $THR_{600s} \leq 7.5 \text{ MJ}$ LFS< the edge of specimen s1: $SMOGRA \leq 30 \text{ m}^2/\text{s}^2$ $TSP_{600s} \leq 50 \text{ m}^2$ d0: No flaming particles or droplets within 600s
GB/T 8626-2007	$F_s < 150 \text{ mm}$ within 60s No ignition of the paper within 60s	$F_s < 150 \text{ mm}$ within 60s No ignition of the paper within 60s

**Conclusion:** the above results indicate to comply with the requirements of GB 8624-2012 Class B1(B-s1, d0).

**Certificate search:**

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3. Submit with confirmation, you may get the search information.

**Value-added services:**

You can search for “firetest” or scan the QR code below to follow or our WeChat Official/Public Accounts to learn more about the relevant standards and regulations for fire retardant testing of rail transit vehicles or building materials, moreover, and you can also ask for supporting, search for a result or reports and certificate enquiries, standards sharing and downloads on the WeChat Official/Public Accounts. Join us!





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**Date of Issue** 02/19/2020

**Applicant:** PT. Sumatera Prima Fibreboard

**Applicant address:** Palembang-Indonesia

**Description of the test subject:**

Sample	Description	Photo
001	Sample Description: MDF (Medium Density Fibreboard) Product Thickness: 18mm	

**Receipt Date of Sample:** 01/15/2020

**Date of Testing:** From 01/15/2020 to 02/19/2020

**Sample submitted:** The sample(s) was (were) submitted by applicant and identified.

**Conclusion:**

Test Items			Result
No.	Items	Standard	
1	Fire classification of construction products and building elements	GB 8624-2012	B1(B-s1,d0)

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### Test Results

#### GB 8624-2012 Fire classification of construction products and building elements

#### 1. GB/T 20284-2006 reaction to fire tests for building products – building products excluding floorings exposed to the thermal attack by a single burning item

##### 1.1 Sample describe

Sample size	Long limb:1500mm×1000mm
	Short limb:1500mm×495mm
Thickness	About <u>18.0</u> mm

Precondition	Temperature (°C)	Humidity (%)	Duration (h)
	23±2	50±5	24

##### 1.2 Results

	1	2	3	Average
FIGRA <sub>0.2MJ</sub> (W/S)	48.5	50.6	46.8	48.6
FIGRA <sub>0.4MJ</sub> (W/S)	48.5	50.6	46.8	48.6
The flame reach the edge of specimen	No	No	No	--
THR <sub>600s</sub> (MJ)	4.1	4.8	3.9	4.3
SMOGRA(m <sup>2</sup> /s <sup>2</sup> )	0	0	0	0
TSP <sub>600s</sub> (m <sup>2</sup> )	22.4	23.1	22.1	22.5
Flaming particles or droplets	No	No	No	--
observe	Carbonization spalling			

**Remark:** The sample is placed on the base material, which is gypsum board.

FIGRA<sub>0.2MJ</sub>= Maximum of the quotient of heat release rate from the specimen and the time of its occurrence using a *THR*-threshold of 0,2 MJ.

FIGRA<sub>0.4MJ</sub>= Maximum of the quotient of heat release rate from the specimen and the time of its occurrence using a *THR* threshold of 0,4 MJ.

LFS= Lateral flame spread on the long specimen wing.

THR<sub>600s</sub>= Total heat release from the specimen in the first 600 s of exposure to the main (primary) burner flames.

SMOGRA= Smoke growth rate: Maximum of the quotient of smoke production rate from the specimen and the time of its occurrence.

TSP<sub>600s</sub>= Total smoke production from the specimen in the first 600 s of exposure to the main (primary) burner Flames.

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**2. GB/T 8626-2007 Reaction to fire tests- ignitability of building products subjected to direct impingement of flame- part2: single-flame source**

**2.1 Sample describe**

Sample size	250mm×90mm
Thickness	About 18.0mm

Precondition	Temperature (°C)	Humidity (%)	Duration (h)
	23±2	50±5	48

**2.2 Results**

**Edge ignition:**

Sample	Direction 1		
	1	2	3
Whether ignition occurs (Y/N)	N	N	N
Whether the flame tip reaches 150mm above the flame application point (Y/N)	N	N	N
The time of the flame tip reaches 150mm above the flame application point(s).	--	--	--
Whether ignition of the filter paper occurs(Y/N)	N	N	N

**Face ignition:**

Sample	Direction 1		
	1	2	3
Whether ignition occurs (Y/N)	N	N	N
Whether the flame tip reaches 150mm above the flame application point (Y/N)	N	N	N
The time of the flame tip reaches 150mm above the flame application point(s).	--	--	--
Whether ignition of the filter paper occurs(Y/N)	N	N	N

Remark: Y-Yes  
N-No

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**GB 8624-2012 table 2 - classification:**

Classification		Test method	Classification criteria
B1	B	GB/T 20284 and	FIGRA <sub>0.2MJ</sub> ≤120W/S; LFS<edge of specimen, THR600≤7.5 MJ
		GB/T 8626 Exposure = 30s	Fs ≤ 150mm within 60s No ignition of the paper within 60s
	C	GB/T 20284 and	FIGRA <sub>0.4MJ</sub> ≤250W/S; LFS<edge of specimen, THR600≤15 MJ
		GB/T 8626 Exposure = 30s	Fs ≤ 150mm within 60s No ignition of the paper within 60s

Addition test	Smoke	s1	SMOGRA≤ 30 m <sup>2</sup> /s <sup>2</sup> , TSP600≤50m <sup>2</sup>
		s2	SMOGRA≤ 180 m <sup>2</sup> /s <sup>2</sup> , TSP600≤200m <sup>2</sup>
		s3	Not reached S1 or S2
	Particles or droplets	d0	No flaming particles or droplets within 600s
		d1	Flaming particles or droplets within 600s, duration of time not exceed 10s
		d2	Not reached d0 or d1

**Conclusion:**

Test standard	Record	Conclusion
GB/T 20284	FIGRA <sub>0.2MJ</sub> =48.6 W/S LFS < Sample edge THR <sub>600s</sub> =4.3 MJ SMOGRA=0 m <sup>2</sup> /s <sup>2</sup> TSP600=22.5 m <sup>2</sup> No flaming particles or droplets within 600s	B1(B-s1,d0)
GB/T 8626	FS≤150mm within 60s No ignition of the paper within 60s	

**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 smoke and toxicity hazard of the product in use.

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Changzhou Jinbiao Railway Transportation Technical Service Co., Ltd.

Drafted by:

Lynn liu

Approved by:

Shen hui

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