Smart Products Service Co.,Ltd
1622 Deying Mansion, No.118 Middle Jiangdong Rd
Nanjing, Jiangsu, China
☎ (+86) 025 86583475 (+86) 025 86583457
✉ info@fire-test.com www.fire-test.com

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	$FIGRA_{0.2MJ}$=49.2 W/s THR_{600s}=4.6 MJ LFS<the edge of specimen SMOGRA=4.0 m^2/s^2 TSP_{600s} = 48.0 m^2 No flaming particles or droplets within 600s	$FIGRA_{0.2MJ}$≤120 W/s THR_{600s}≤7.5 MJ LFS< the edge of specimen s1: SMOGRA≤30 m^2/s^2 TSP_{600s} ≤ 50 m^2 d0: No flaming particles or droplets within 600s
GB/T 8626-2007	F_s<150mm within 60s No ignition of the paper within 60s	F_s<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)
1. Click 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)

Changzhou Jinbiao Railway Transportation Technical Service Co.,Ltd.

Phone: +86/ (0) 519-8123-9872
Fax: +86/ (0) 519-8123-9872 ext.123
E-mail: hui.shen@tuv-sud.cn
www.tuv-sud.cn

No. 164, Wuyi Road ,Lucheng Street, Wujin District, Changzhou city, Jiangsu Province, 213015 P.R. China

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 6.0 mm

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

1.2 Results

	1	2	3	Average
$FIGRA_{0.2MJ}$(W/S)	49.1	48.4	50.2	49.2
$FIGRA_{0.4MJ}$(W/S)	49.1	48.4	50.2	49.2
The flame reach the edge of specimen	No	No	No	--
THR_{600s}(MJ)	4.6	4.5	4.8	4.6
SMOGRA(m^2/s^2)	4.0	3.8	4.3	4.0
TSP_{600S}(m^2)	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.
$FIGRA_{0.2MJ}$= 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.
$FIGRA_{0.4MJ}$= 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_{600s}= 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_{600s}= Total smoke production from the specimen in the first 600 s of exposure to the main (primary) burner Flames.

Changzhou Jinbiao Railway Transportation Technical Service Co.,Ltd.
Phone: +86/ (0) 519-8123-9872
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Report No. **TC.20.01.000213**

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 6.0 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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No. 164, Wuyi Road ,Lucheng Street, Wujin District, Changzhou city, Jiangsu Province, 213015 P.R. China

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GB 8624-2012 table 2 - classification：

Classification		Test method	Classification criteria
B1	B	GB/T 20284 and	$FIGRA_{0.2MJ}$≤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	$FIGRA_{0.4MJ}$≤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^2/s^2, TSP600≤50m^2
		s2	SMOGRA≤ 180 m^2/s^2, TSP600≤200m^2
		s3	Not reached S1or 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	$FIGRA_{0.2MJ}$=49.2 W/S LFS < Sample edge THR_{600s}=4.6 MJ SMOGRA=4.0 m2/s^2 TSP600=48.0 m^2 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 the sole criterion for assessing the potential smoke and toxicity hazard of the product in use.

Test results are just for client internal reference.

Changzhou Jinbiao Railway Transportation Technical Service Co.,Ltd.
Phone: +86/ (0) 519-8123-9872
Fax: +86/ (0) 519-8123-9872 ext.123
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Report No. **TC.20.01.000213**

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-

Changzhou Jinbiao Railway Transportation Technical Service Co.,Ltd.

Phone: +86/ (0) 519-8123-9872
Fax: +86/ (0) 519-8123-9872 ext.123
E-mail: hui.shen@tuv-sud.cn
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No. 164, Wuyi Road ,Lucheng Street, Wujin District, Changzhou city, Jiangsu Province, 213015 P.R. China

Smart Products Service Co.,Ltd
1622 Deying Mansion, No.118 Middle Jiangdong Rd
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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 W/s THR_{600s}=4.3 MJ LFS<the edge of specimen SMOGRA=0 m^2/s^2 TSP_{600s} = 22.5 m^2 No flaming particles or droplets within 600s	$FIGRA_{0.2MJ}$≤120 W/s THR_{600s}≤7.5 MJ LFS< the edge of specimen s1: SMOGRA≤30 m^2/s^2 TSP_{600s} ≤ 50 m^2 d0: No flaming particles or droplets within 600s
GB/T 8626-2007	F_s<150mm within 60s No ignition of the paper within 60s	F_s<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)

1. Click www.fire-test.com/en
2. Select “search for Certification”
3. Put the Certificate ID code (TC.20.01.000212) and applicant name (PT.Sumatera Prima Fibreboard)
4. Click “submit”

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

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2. Select "Technical Support" - " search for Certification "

a. Put the Certificate ID code (TC.20.01.000212) and Customer ID code (2144)

b. Put the Certificate ID code (TC.20.01.000212) 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.20.01.000212**

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)

Changzhou Jinbiao Railway Transportation Technical Service Co.,Ltd.
Phone: +86/ (0) 519-8123-9872
Fax: +86/ (0) 519-8123-9872 ext.123
E-mail: hui.shen@tuv-sud.cn
www.tuv-sud.cn
No. 164, Wuyi Road ,Lucheng Street, Wujin District, Changzhou city, Jiangsu Province, 213015 P.R. China

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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 18.0 mm

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

1.2 Results

	1	2	3	Average
$FIGRA_{0.2MJ}$(W/S)	48.5	50.6	46.8	48.6
$FIGRA_{0.4MJ}$(W/S)	48.5	50.6	46.8	48.6
The flame reach the edge of specimen	No	No	No	--
THR_{600s}(MJ)	4.1	4.8	3.9	4.3
SMOGRA(m^2/s^2)	0	0	0	0
TSP_{600S}(m^2)	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.

$FIGRA_{0.2MJ}$= 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.

$FIGRA_{0.4MJ}$= 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_{600s}= 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_{600s}= Total smoke production from the specimen in the first 600 s of exposure to the main (primary) burner Flames.

Changzhou Jinbiao Railway Transportation Technical Service Co.,Ltd.
Phone: +86/ (0) 519-8123-9872
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Report No. **TC.20.01.000212**

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 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	$FIGRA_{0.2MJ}$≤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	$FIGRA_{0.4MJ}$≤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^2/s^2, TSP600≤50m^2
		s2	SMOGRA≤ 180 m^2/s^2, TSP600≤200m^2
		s3	Not reached S1or 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	$FIGRA_{0.2MJ}$=48.6 W/S LFS < Sample edge THR_{600s}=4.3 MJ SMOGRA=0 $m2/s^2$ TSP600=22.5 m^2 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 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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Fax: +86/ (0) 519-8123-9872 ext.123
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Changzhou Jinbiao Railway Transportation Technical Service Co., Ltd.

Drafted by:

Lynn liu

Approved by:

Shen hui

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Changzhou Jinbiao Railway Transportation Technical Service Co.,Ltd.

Phone: +86/ (0) 519-8123-9872
Fax: +86/ (0) 519-8123-9872 ext.123
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