

TEST REPORT
EN 13964:2004+A1:2006
Suspended ceilings-Requirements and test methods

Report Reference No.....: 130621001SHJ-BP-12

Prepared by (name and signature) ...: Fred Bao



Approved by (name and signature) ...: Jodie Zhou



Date of issue.....: November 1, 2013

Contents: Total test report 12 pages including:
 Report text: 6 pages
 Appendix A for copy of ISO 9001 certificate report: 1 page
 Appendix B for copy of marking plate: 1 page
 Appendix C for copy of Test Report (Issued by: NB 1390): 4 pages

Testing Laboratory name: Intertek Testing Services Building Products

Address.....: Building T52-8, No.1201 Gui Qiao Road, Jinqiao Development Area, Pudong District, Shanghai, China

Testing location.....: Same as above

Applicant's name: CKM Building Material Corp.

CKM Building Material (Shanghai) Co., Ltd.

Address.....: No.9, Gongye Rd., Guantian Dist., Tainan City 72042, Taiwan (R.O.C.)

No.1133, Hui Jin Rd., Qingpu Industrial Zone, Shanghai, China

Test specification:

Standard: EN 13964: 2004 + A1: 2006

Non-standard test method.....: None

Test item description.....: Steel ceiling substructure component

Trade Mark: CKM

Model and/or type reference.....: 538 Series coated steel T section ceiling grid

Manufacturer: CKM Building Material Corp.

Rating(s): Reaction to fire Class A1

Summary of testing:

The submitted samples were tested in accordance with specified standards, and listed the result accordingly, refer to text for detail.

Test item particulars	
Classification of installation and use	: —
Supply Connection	: —
Possible test case verdicts	
- Test case does not apply to the test object	: N/A
- Test object does meet the requirement.....	: P (Pass)
- Test object does not meet the requirement	: F (Fail)
Testing	
Date of receipt of test item	: June 24, 2013
Date (s) of performance of tests	: June 25, 2013 to October 30, 2013
General remarks:	
<p>This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.</p> <p>Throughout this report a comma (point) is used as the decimal separator.</p> <p>When determining the test result, measurement uncertainty has been considered.</p>	

General product information:
538 Series coated steel T section ceiling grid
Steel ceiling substructure component:
Main runner bar: 38mm x 14.5mm x 3600mm x 0.30/0.35mm (Height x Width x Length x Steel thickness)
Cross T bar: 25mm x 14.5mm x 1200mm x 0.30mm (Height x Width x Length x Steel thickness)
Cross T bar: 32mm x 14.5mm x 1200mm x 0.30mm (Height x Width x Length x Steel thickness)
Cross T bar: 38mm x 14.5mm x 1200mm x 0.30/0.35mm (Height x Width x Length x Steel thickness)
Cross T bar: 25mm x 14.5mm x 600mm x 0.30mm (Height x Width x Length x Steel thickness)
Cross T bar: 32mm x 14.5mm x 600mm x 0.30mm (Height x Width x Length x Steel thickness)
Cross T bar: 38mm x 14.5mm x 600mm x 0.30/0.35mm (Height x Width x Length x Steel thickness)
Trim:
Wall angle: 24mm x 24mm x 3000mm x 0.40mm (Height x Width x Length x Steel thickness)
Wall angle: 19mm x 22mm x 3000mm x 0.40mm (Height x Width x Length x Steel thickness)
Double L wall angle: 19mm x 7mm x 7mm x 19mm x 3000mm x 0.40mm (Height x Width x Width x Length x Steel thickness)
Reaction to fire was conducted by Notified Body Lab No.1390, Centrum stavebního inženýrství a.s. The address of Notified Body Lab No.1390 is: Pražská 16, 102 00 Praha 10, Czech Republic.

Intertek Testing Services Ltd., Shanghai JinQiao Branch

Building T52-8, No.1201 Gui Qiao Road, Jinqiao Development Area, Pudong District, Shanghai, China

Tel: 86-021-50319089 Fax: 86-021- 38720003

Report Template Revision Date: 3rd Feb. 2009

Performance test																																																																																													
Clause	Requirement - Test	Result - Remark	Verdict																																																																																										
4.1	<p>Material and products-General</p> <p>The products used in the construction of suspended ceilings shall comply with the requirements of this European Standard.</p> <p>The manufactured dimensions and tolerances for thin gauge membrane components shall comply with Table 1 of the standard.</p>	<p>Main Tee (mm):</p> <table border="1"> <thead> <tr> <th></th> <th>Measured</th> <th>Claimed</th> </tr> </thead> <tbody> <tr> <td>Width</td> <td>14.6</td> <td>14.5</td> </tr> <tr> <td>Height</td> <td>38.0</td> <td>38</td> </tr> <tr> <td>Length</td> <td>3601</td> <td>3600</td> </tr> <tr> <td>Thickness</td> <td>0.31</td> <td>0.30</td> </tr> </tbody> </table> <p>Main Tee (mm):</p> <table border="1"> <thead> <tr> <th></th> <th>Measured</th> <th>Claimed</th> </tr> </thead> <tbody> <tr> <td>Width</td> <td>14.6</td> <td>14.5</td> </tr> <tr> <td>Height</td> <td>38.0</td> <td>38</td> </tr> <tr> <td>Length</td> <td>3601</td> <td>3600</td> </tr> <tr> <td>Thickness</td> <td>0.36</td> <td>0.35</td> </tr> </tbody> </table> <p>Cross Tee (mm):</p> <table border="1"> <thead> <tr> <th></th> <th>Measured</th> <th>Claimed</th> </tr> </thead> <tbody> <tr> <td>Width</td> <td>14.6</td> <td>14.5</td> </tr> <tr> <td>Height</td> <td>25.1</td> <td>25</td> </tr> <tr> <td>Length</td> <td>1199</td> <td>1200</td> </tr> <tr> <td>Thickness</td> <td>0.29</td> <td>0.30</td> </tr> </tbody> </table> <p>Cross Tee (mm):</p> <table border="1"> <thead> <tr> <th></th> <th>Measured</th> <th>Claimed</th> </tr> </thead> <tbody> <tr> <td>Width</td> <td>14.6</td> <td>14.5</td> </tr> <tr> <td>Height</td> <td>32.2</td> <td>32</td> </tr> <tr> <td>Length</td> <td>1200</td> <td>1200</td> </tr> <tr> <td>Thickness</td> <td>0.28</td> <td>0.30</td> </tr> </tbody> </table> <p>Cross Tee (mm):</p> <table border="1"> <thead> <tr> <th></th> <th>Measured</th> <th>Claimed</th> </tr> </thead> <tbody> <tr> <td>Width</td> <td>14.6</td> <td>14.5</td> </tr> <tr> <td>Height</td> <td>38.0</td> <td>38</td> </tr> <tr> <td>Length</td> <td>1199</td> <td>1200</td> </tr> <tr> <td>Thickness</td> <td>0.32</td> <td>0.30</td> </tr> </tbody> </table> <p>Cross Tee (mm):</p> <table border="1"> <thead> <tr> <th></th> <th>Measured</th> <th>Claimed</th> </tr> </thead> <tbody> <tr> <td>Width</td> <td>14.6</td> <td>14.5</td> </tr> <tr> <td>Height</td> <td>38.0</td> <td>38</td> </tr> <tr> <td>Length</td> <td>1199</td> <td>1200</td> </tr> <tr> <td>Thickness</td> <td>0.36</td> <td>0.35</td> </tr> </tbody> </table>		Measured	Claimed	Width	14.6	14.5	Height	38.0	38	Length	3601	3600	Thickness	0.31	0.30		Measured	Claimed	Width	14.6	14.5	Height	38.0	38	Length	3601	3600	Thickness	0.36	0.35		Measured	Claimed	Width	14.6	14.5	Height	25.1	25	Length	1199	1200	Thickness	0.29	0.30		Measured	Claimed	Width	14.6	14.5	Height	32.2	32	Length	1200	1200	Thickness	0.28	0.30		Measured	Claimed	Width	14.6	14.5	Height	38.0	38	Length	1199	1200	Thickness	0.32	0.30		Measured	Claimed	Width	14.6	14.5	Height	38.0	38	Length	1199	1200	Thickness	0.36	0.35	Pass
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4.3.2.2.1	Steel substructure The thickness tolerance shall be in accordance with EN 10143. For corrosion protection the minimum protection shall be in accordance with Table 8 related to the class of exposure to be encountered.	The thickness tolerance met the requirement. The corrosion protection met the requirement of EN 10169. The product is not rusted after 360 hours salt spray.	Pass																					
4.4.2	Reaction to fire The test was determined according to EN 13501-1	Class A1 Refer to Appendix C.	Pass																					
5	Loading capacity of substructure components The load bearing capacity of metal structures shall be determined by the Section 5.2.1 on individual members at various span and loads. Table 6- Classes of deflection <table border="1"> <thead> <tr> <th>Class</th> <th>Maximum deflection in mm</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>L/500 and not greater than 4</td> </tr> <tr> <td>2</td> <td>L/300</td> </tr> <tr> <td>3</td> <td>No limit</td> </tr> </tbody> </table>	Class	Maximum deflection in mm	1	L/500 and not greater than 4	2	L/300	3	No limit	Test Span: 1.0 m Deflection Class 1: 89 N•m Deflection Class 2: 156 N•m Deflection Class 3: 248 N•m Sample thickness: 0.30 mm	N/A													
Class	Maximum deflection in mm																							
1	L/500 and not greater than 4																							
2	L/300																							
3	No limit																							
6	Evaluation of conformity																							
6.1	General The conformity of the component with the requirements of this standard shall be demonstrated by: Clause 6.2 and 6.3		Pass																					
6.2	Initial type testing or assessment Shall be performed to demonstrate conformity with this standard or be demonstrated according to information given in this standard	Refer to clause 4.1 to 4.10	Pass																					
6.3	Factory production control The producer shall maintain, establish, document and have a production control system to ensure that the products placed on the market conform to that stated performance	The manufacture has established a Quality management system according to EN ISO 9001. See Appendix A.	Pass																					

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	characteristics.		
7	Marking, labeling and packaging		
7.1	Marking and labeling Product which conform to the requirements of this document shall be clearly and indelibly marked by the manufacturer either on their package or on an adhesive label with following information: a) the number and the year of this European Standard b) the manufacturer's or supplier's identification c) the product name and batch number	See Appendix B 'Copy of marking plate'	Pass

*****End of Page*****

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Appendix A


ISO 9001 Certificate Report



*****End of page*****

**Appendix B
Copy of Marking Plate**

Copy of marking plate

	
CKM Building Material Corp. 03	
EN 13964	
Suspended ceiling substructure component for use internally in buildings	
Reaction to fire:	Class A1
Load bearing capacity:	89 N•m for deflection Class1 156 N•m for deflection Class 2 248 N•m for deflection Class 3
Durability:	Corrosion protection according to EN 10169

Note:

1. If the CE marking is reduced or enlarged the proportions given in the above graduated drawing must be respected.
2. The various components of the CE marking must have substantially the same vertical dimension, which may not be less than 5 mm.
3. CE marking and label shall be affixed visibly, legibly and indelibly.

*****End of page*****

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Appendix C
Copy of Test Report (Issued by: NB 1390)



Centrum stavebního inženýrství a.s.

Fire Technical Laboratory

AUTHORIZED
BODY No. 212

NOTIFIED
BODY No. 1390

**CLASSIFICATION OF REACTION TO FIRE IN
 ACCORDANCE WITH ČSN EN 13501-1+A1:2010**

Applicant: CKM Building Material Corp.
 CKM Building Material (Shanghai) Co.Ltd.
 No.9, Gongve Rd.
 Guantain Dist., Tainan City 72042
 Taiwan (R.O.C.), No. 1133 Huijin Rd.
 Qingpu Industrial Zone, Shanghai

Prepared by: Centrum stavebního inženýrství a.s.
 Pražská 16
 102 00 Praha 10
 Czech Republic

Product name: *Steel ceiling substructure component*

**Classification
 report No.:** PK-13-098

Issue number: 1/2

Date of issue: 30th October 2013

This classification report consists of 4 pages and may only be used or reproduced in its entirety.

Address:
 PRAŽSKÁ 16, 102 00 PRAHA 10, Czech Republic, E mail: csias@csias.cz, http://www.csias.cz
 Reg. No. 45274860, VAT No. CZ45274860. The Company is registered in the Commercial Register
 administered by the Municipal Court of Prague (section B, inset 1595).
 Fire Technical Laboratory, E-mail: ptl@csias.cz
 Phone: +420 261 017 111, Fax: +420 261 017 455

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REACTION TO FIRE CLASSIFICATION REPORT No. PK-13-098

Page 2

1. DETAILS OF CLASSIFIED PRODUCT**Nature and end use application:**

The product, *Steel ceiling substructure component*, is defined as a type of ceiling component according to the EN 13964.

Description:

The product *Steel ceiling substructure component* is fully described in the test reports in support of the classification listed in clause 2.

2. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION**Test reports**

Name of laboratory	Name of sponsor	Test report ref. no.	Test method
CSI a.s., Fire technical laboratory	CKM Building Material Corp., CKM Building Material (Shanghai) Co., Ltd.	16673 - 2/2	ČSN EN ISO 1716
		16673 - 1/2	ČSN EN 13823

Measured values and test results:

Test method	Parameter	Number of test	Results	
			Continuous parameter mean (m)	Compliance parameters
ČSN EN ISO 1716	PCS (MJ/kg) ⁽¹⁾	3	0,34	≤ 2,0 (A1)
	PCS (MJ/kg) ⁽²⁾	3	0	≤ 2,0 (A1)
	PCS (MJ/m ²) ⁽³⁾	3	0,58	≤ 2,0 (A1)
ČSN EN 13823	$FIGRA_{0,2MJ}$ (W/s)	3	0,0	≤ 20 (A1)
	$LFS > edge$	3	no	no (A1)
	THR_{600s} (MJ)	3	0,5	≤ 4,0 (A1)
	$SMOGRA$ (m ² /s ⁴)	3	0,0	≤ 30 (A1)
	TSP_{600s} (m ²)	3	9,1	≤ 200 (A1)
	flaming droplets / particles	3	no	no (A1)

(1): product as whole

(2): steel plate - substantial component

(3): varnish - non substantial component

The substantial component, steel plate, fulfils conditions of Commission Decision 96/603/EC, as amended, for material to be considered as reaction to fire Class A1 without the need for testing.

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REACTION TO FIRE CLASSIFICATION REPORT No. PK-13-098

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3. CLASSIFICATION AND DIRECT FIELD OF APPLICATION**Reference and direct field of application**

This classification has been carried out in accordance with the clause 11.8.2 of ČSN EN 13501-1+A1:2010.

Classification

The product *Steel ceiling substructure component*, in relation to its reaction to fire behaviour is classified:

A1

The additional classification in relation to smoke production is:

not classified

The additional classification in relation to flaming droplets/particles is:

not classified

The format of the reaction to fire classification for *Steel ceiling substructure component* is:

Fire behaviour		Smoke production			Flaming droplets	
A1	-	s	not classified	,	d	not classified

Reaction to fire classification: A1

Field of application:

This classification is also valid for the following product parameters:

- minimum thickness of product: 0,2 mm
- coating of steel plate:
 - maximum mass per unit area of varnish: 35 g/m²
 - colour of coating: without limitation
 - valid for varnish of PCS ≤ 0,58 MJ/m²

Intertek Testing Services Ltd., Shanghai JinQiao Branch

Building T52-8, No.1201 Gui Qiao Road, Jinqiao Development Area, Pudong District, Shanghai, China

Tel: 86-021-50319089 Fax: 86-021- 38720003

Report Template Revision Date: 3rd Feb. 2009

REACTION TO FIRE CLASSIFICATION REPORT No. PK-13-098

4. LIMITATIONS

Restrictions

This classification report is valid until 30th October 2018, provided that the technical specifications of the product will not be changed.

Warning

This document does not represent type approval or certification of the product.

Prepared:



Reviewed:

Jiří Socha

Vít Slaboch

Jiří Socha

Vít Slaboch
head of laboratory

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

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