



Thai-German Institute
สถาบันไทย-เยอรมัน

สถาบันไทย-เยอรมัน 700/1 หมู่ 1 นิคมอุตสาหกรรมอมตะนคร ถนนพหลโยธิน-ตราด กม.57 ตำบลคลองตำหรุ อำเภอเมืองจังหวัดชลบุรี 20000
Thai-German Institute 700/1 Moo.1 Amatakranon Industrial Estate Bangna-Trud KM.57 Tambol Klong Tamru Amphur Muang Chonburi 20000
Tel. 036-215033-44 Fax. 036-743705 http://www.tgi.or.th

(Set 3-3)1/2

TEST REPORT

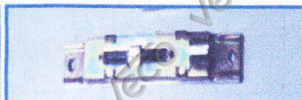
Report No.: T54030004

Rev.: 00

Customer's company name : WINTECH MANUFACTURING Co., Ltd.

Address : 35/199 Moo2 Tumbon Bang-namcheud, Amphur Muang, Samutakorn 74000,
Thailand.

| | | | |
|-------------------------|----------------------------|-------------------------|-------------------------|
| Test Product: | Stainless steel flush bolt | Type of Test: | Fire resistance Testing |
| Material Specification: | Stainless steel SUS304 | Equipment / Serial No.: | Burner |
| Received Date: | 20 / Feb. / 2011 | Time of Test: | 180 minutes |
| Tested Date: | 25 / Feb. / 2011 | Testing Temp.: | 315 °C |



Test Method: The testing procedures follow the British Standard BS 476: Fire tests on building materials and structures

BS 476 Part 20: 1987: Method for determination of the fire resistance of elements of construction (general principles)

BS 476 Part 22: 1987: Methods for determination of the fire resistance of non-loadbearing equipment of construction section 6: Determination of the fully insulated door sets and shutter assemblies.

Test Results: The non-load equipment of construction described above has the fire resistance of each criterion for the period stated:
(The test results are good only for the specimen tested)

Fire Resistance Test Result

| No. | Fire Resistance (min.) | Remarks |
|----------------------------|------------------------|--|
| Stainless steel flush bolt | 180 | The maximum temperature is 315°C for 3 Hrs., the all condition are good. |
| Integrity | 180 | The test was terminated. No visible sign of damage or weak of the specimens and no passage of flames or gases hot enough to ignite the coating of the equipments |

Operated by: 
Technical Team
(25 / Feb. / 2011)

Checked by: 
Technical Manager
(25 / Feb. / 2011)

Approved by: 
Quality Manager
(25 / Feb. / 2011)

Commentary:

- Our division and institute not allow to change, add or subtract anywhere on this report, except only in case of already accepted by writing from our division.
- Our division can not confess to any direct or indirect damage that will occur after this by using data, analysis results, results or conclusion in this report to design, produce or others.
- Experiment results are exactly true especially only on specimen that was carried to test.

Date 11/May/2009 (Rev.00)



Thai-German Institute
สถาบันไทยเยอรมัน

สถานบันไทย - เยอรมัน 700/1 หมู่ที่ 1 ตำบลคลองสามวา อําเภอบางนา-ตราด กม.57. ตำบลคลองสามวา อําเภอบางนา-ตราด 20000
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Tel. 038-215033-44 Fax. 038-243705 http://www.tgi.or.th

HEATING REPORT

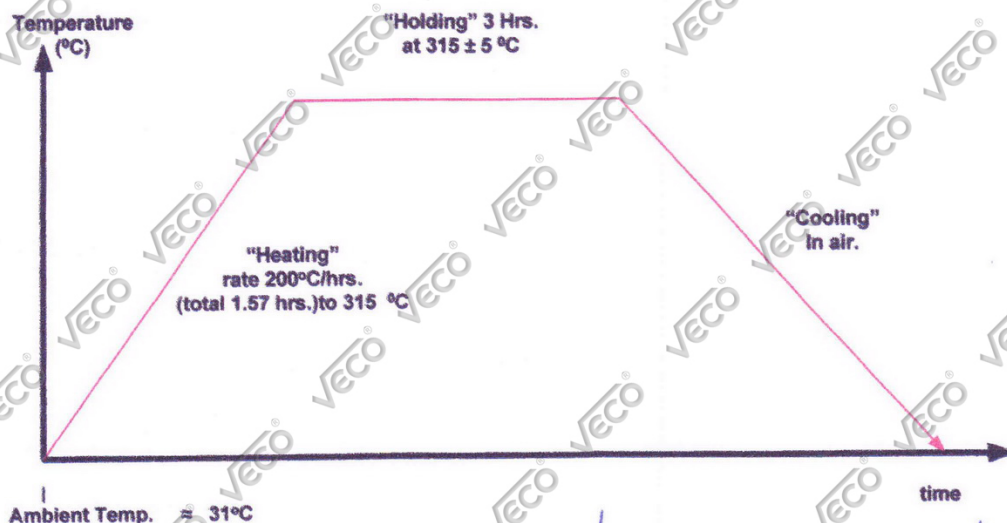
Report No.: T54030004-H

Rev.: 00

Customer's company name : WINTECH MANUFACTURING Co., Ltd.
Address : 35/199 Moo2 Tumbon Bang-namcheud, Amphur Muang, Samutarakorn 74000,
Thailand.

| | | | |
|-------------------------|----------------------------|-------------------------|----------------------------|
| Test Product: | Stainless steel flush bolt | Standard of Test: | BS 476 Part 20 and Part 22 |
| Material Specification: | Stainless steel SUS304 | Type of Test: | Fire Resistance Testing |
| Received Date: | 20 / Feb. / 2011 | Equipment / Serial No.: | Burner |
| Tested Date: | 25 / Feb. / 2011 | Equipment's Capacity: | 3,000 °C |
| Heating Method: | Heating up and cool down | Heating Temp.: | 315 °C 3 hrs. |

Heating Diagram



Operated by:
Technical Team
(25 / Feb. / 2011)

Checked by:
Technical Manager
(25 / Feb. / 2011)

Approved by:
Quality Manager
(25 / Feb. / 2011)

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3. Experiment results are exactly true especially only on specimen that was carried to test.