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Notificato CE 0068 - Accreditato SINCERT 047A - Accreditato SINAL 0019 - Competent Body: EMC CEE 89/336 e BT 73/23

Autorizzazioni :

Ministero delle Infrastrutture e dei Trasporti per Legge 1086 - Ministero dell'Università e della Ricerca Scientifica e Tecnologica per Legge 46/82 - Ministero delle Attività Produttive - Ministero dell'Interno per prove reazione al fuoco, estintori portatili e carrellati, evacuatori di fumo e calore - Ministero della Salute per analisi in BPL e prove I.S.P.E.S.L. - Regione Lombardia per analisi acque potabili e non - Ministère de l'Industrie, de la Poste et des Télécommunications per pentole a pressione e verifiche di sorveglianza alla produzione

Certificazione di prodotto - Controlli non distruttivi - Prove tecnologiche - Termografia - Prove termotecniche - Rilievi estensimetrici - Prove calcestruzzi - Geotecnica
Analisi chimica - Agroalimentare - Cosmesi - Metallografia - Microscopia elettronica - Sicurezza - Ecologia - Controllo qualità - Ricerche - Consulenze

- English translation of the original italian test report -
(issued on 31/01/2007 - request of 30/01/2007)

Rho, 14 December 2006

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TEST REPORT No. 4723-2006

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NPA 2736/06

SUBJECT: Suitable tests on connecting flue pipes in composed material.

Order no. 008/06/cl of 14/06/2006 - Delivery note no. 150 of 11/12/2006

On 11/12/2006 our laboratory received no. 1 enbloc non-rectilinear pipe in composed material (glass fibers and particular thermosetting resins), identified "**FITFIRE**", external diameter 200 mm, to be submitted to:

- gas tightness test, according to standard UNI EN 1856-2:2006 pt. 6.3 and standard UNI EN 1859:2002 pt. 4.4*;
- thermal performance test, according to standard UNI EN 1856-2:2006 pt. 6.4.1.1 and standard UNI EN 1859:2002 pt. 4.5.3.1*;
- repetition of gas tightness test, according to standard UNI EN 1856-2:2006 pt. 6.3 and standard UNI EN 1859:2002 pt. 4.4.

Test methods and results are reported in the following page.

Tests performed in the period from 12 to 14/12/2006.

The present test report refers only to the performed tests and it can be reproduced only in its full version.

(*) Test out of SINAL accreditation

Head of TEC sector

Technical Manager



GAS TIGHTNESS TEST (UNI EN 1856-2:2006 pt. 6.3)

Test performed according to method reported on standard UNI EN 1859:2002 - pt.4.4, increasing airstream until reaching 200 Pa pressure into the flue pipe.
Test has been performed before and after the thermal performance test.

	<i>AFTER</i>	<i>BEFORE</i>	<i>LIMIT</i>
Test pressure (Pa):	200	200	
Leakage rate (L/s x m ²):	0,005	0,005	≤ 0,006

*Relating to gas tightness test, tested product, flue pipe type "FITFIRE", has been classified in **pressure type P1**.*

THERMAL PERFORMANCE TEST (UNI EN 1856-2:2006 pt. 6.4.1.1)

Test has been performed with gas temperature of 350°C to verify T300 class temperature, according to method reported on standard UNI EN 1859:2002 - pt. 4.5.3.1.

The following temperatures has been recorded:

- Room T	10,5 °C
- Hot gas T at 50 mm before the chimney entrance	350,3 °C
- Hot gas T at 1 m above the chimney entrance	315,4 °C
- Hot gas T at 2 m above the chimney entrance	301,6 °C
- Hot gas T at 3 m above the chimney entrance	272,9 °C
- External wall T at 1 m above the chimney entrance	147,8 °C
- External wall T at 2 m above the chimney entrance	114,0 °C

Reported values are the maximum temperatures reached in all the position required and identified in standard UNI EN 1859-2002.

*Relating to thermal performance test, tested product, flue pipe type "FITFIRE", has been classified in **T300 class temperature**.*