

RAPPORTO DI PROVA / TEST REPORT N. 111377

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Marghera

20/09/2013

rif. your mail dated September 3rd, 2013

richiedente  
proposer

GLASSFER S.R.L.  
VIA S. MAURIZIO 66 - 22036 ERBA (CO)

campione  
sample

Laminated glass

prova eseguita dal / from 17/09/2013  
test date al / to 17/09/2013

contrassegnato  
reference

GLASSFER - 5/2.28 Sentry Glass/5 laminated annealed glass

ricevuto il  
received

29/08/2013 hand delivered

## IMPACT TEST ACCORDING TO ANSI Z97.1:2009

### American National Standard for Safety Glazing Materials Used in Buildings – Safety Performance Specifications and Methods of Test

On laminated clear float annealed glass, with a nominal thickness of **12.28 mm**, sent and sampled under your own responsibility, impact test according to American Standard ANSI Z97.1 – 2009 has been carried out.

#### TEST RESULTS

Impact test has been carried out with drop height of 457 mm (18 inches) and 1219 mm (48 inches), according to point 5.1.2 (point 5.1.2.1 and point 5.1.2.2).

On 4 specimens with dimension 863 mm by 1930 mm sent by the Proposer, impact test has been carried out according to point 5.1.3 of ANSI Z97.1:2009.

Here there are test results:

Specimen	Mean Thickness (mm)	Impact with 457mm drop height (18 inches)	Impact with 1219 mm drop height (48 inches)
1	11.85	No breakage	Breakage of both glass panes No passage of 3.0 inch diameter sphere
2	11.81	No breakage	Breakage of both glass panes No passage of 3.0 inch diameter sphere
3	11.92	No breakage	Breakage of both glass panes No passage of 3.0 inch diameter sphere
4	11.89	No breakage	Breakage of both glass panes No passage of 3.0 inch diameter sphere

According to point 5.1.2 of ANSI Z97.1-2009 tested laminated glass composition is classified as:

**“CLASS A”**

Test carried out at our test laboratories in Marghera (Venice, Italy).

THE HEAD OF THE LABORATORY  
Ennio Mognato

THE LABORATORIES DIRECTOR  
Dr. Nicola Favaro

IL DIRETTORE GENERALE  
(Dr. Stefano Manoli)

Si attesta che il campione oggetto di analisi esibito dalla ditta richiedente presenta le caratteristiche sopra riportate. Il presente attestato si riferisce al campione esaminato e non può essere riprodotto parzialmente. In carta semplice per gli usi consentiti dalla legge.

We declare that the analysed sample, provided by the customer, presents the above-mentioned characteristics. This Test Report is relevant exclusively for the specimen tested and it cannot be partially reproduced. Issued on unstamped paper for the uses foreseen by the law.