



Accreditation N° : 032-Test  
according to ISO 17025

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## TEST REPORT : N° 2014B SEC 22251-4

Including 4 pages  
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Mons, October 14<sup>th</sup>, 2014

**REQUESTED BY :**

**SOVEP**

Rue El Kasserine – ZI Mghira III Lot 97  
Tunis  
Tunisie

**REFERENCE OF THE REQUESTED :**

Pro forma invoice PF2/2014

**CONCERNED MANUFACTURER:**

**SOVEP**

Rue El Kasserine – ZI Mghira III Lot 97  
Tunis  
Tunisie

**NUMBER OF SAMPLES AND IDENTIFICATION :** Laminated Glass - See page 2

**PURPOSE OF THE REQUEST :**

**TEST ON SAFETY GLASS IN COMPLIANCE WITH THE  
REQUIREMENTS OF THE STANDARD EN ISO 12543-4  
(DURABILITY TEST)\***

**SAMPLES RECEIVED ON :**

26/06/2014

**TESTING DATE :**

Starting on 25/07/2014

**COMMENTS :**

\*Test under accreditation



**Notified body (Id.N°1174)**  
according to Regulation (EU) No 305/2011 - Construction products

**DESCRIPTION OF THE SAMPLES**

Manufacturer : **SOVEP**  
Rue El Kasserine – ZI Mghira III Lot 97  
Tunis  
Tunisie

Production site : Tunisie  
Commercial name of the product : /

Customer's references : **Laminated Glass 44.2**

Internal reference : SEC 22251

Sampling : Under responsibility of the manufacturer

Sampling information : Traceability of the samples is under responsibility of the manufacturer.

Number of samples : 12 samples 100 x 300 mm

| COMPONENTS | TYPE        | NOMINAL THICKNESS | TREATMENT |          |
|------------|-------------|-------------------|-----------|----------|
|            |             |                   | Physical  | Chemical |
| 1          | Clear Glass | 4 mm              | -         | -        |
| 2          | PVB         | 2 * 0.38 mm       | -         | -        |
| 3          | Clear Glass | 4 mm              | -         | -        |

Integration of an electronic system or alarm component : None

Witness : None

TEST ON SAFETY GLASS IN COMPLIANCE WITH  
THE REQUIREMENTS OF THE STANDARD EN ISO 12543-4 (2011)

(Glass in the construction industry)  
(Laminated glass and of safety)  
(Part 4: Testing methods concerning durability)

**High temperature test : § 5.3.2.**

On 3 samples

Dimension : 300\*100 mm

Testing date : 29/07/2014

Test schedule : the samples were placed vertically during 16 hours in an oven at 100°C.

|                       | 1    | 2    | 3    |
|-----------------------|------|------|------|
| Actual thickness (mm) | 8.43 | 8.43 | 8.43 |
| Bubble(s) :           | None | None | None |
| Delamination :        | None | None | None |
| Opacification :       | None | None | None |

Defect located within 15mm from an original edge and 20 mm from a cut edge are not taken into account.

**Humidity test with condensation: § 6.3.1**

On 3 samples

Dimension : 300\*100 mm

Testing date : 25/07/2014-08/08/2014

Test schedule : the samples were placed vertically during 2 weeks in a chamber at 50°C and 100% relative humidity.

|                       | 1    | 2    | 3    |
|-----------------------|------|------|------|
| Actual thickness (mm) | 8.43 | 8.43 | 8.44 |
| Bubble(s) :           | None | None | None |
| Delamination :        | None | None | None |
| Opacification :       | None | None | None |

Defect located less than 15mm of an original edge and 20 mm of a cut edge are not taken into account.



## Conclusion

The tests carried out on the samples considered in this report gave results in compliance with the requirements of the EN ISO 12543-4 standard (resistance at high temperature and resistance to humidity with condensation).

D. LIBERT  
Head of Department

Glazing and Components - INISMa