



Dynamic Test Center AG  
Centrum für Dynamische Tests AG  
Centre de Tests Dynamiques SA

## Certificate pSi-13-0170-009

This certificate confirms that the product

**N.P.T. S.r.l.**  
**Via Guido Rossa 2**  
**40056 Crespellano**

**SiMP Seal 60 HV**

fulfilled the requirements on frontal impact tests according to

**FMVSS 212.**

The performances under impact are detailed in the attached appendix. The windscreen should be hold within a drive away time of **60 minutes** under a frontal impact with 48 km/h to a rigid barrier and 100% overlay.

The test was performed with two HIII 50% ATDs and airbag ignition. Detailed information about test conditions and test results are described in the report pSi-13-0170.

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This certificate was first issued on January 22, 2014 and remains valid as long as the conditions, laid down in the technical test specifications, or the manufacturing conditions in the factory are not modified significantly.

# Appendix to Certificate pSi-13-0170-009

## Performances under FMVSS 212 frontal impact test

### SIMP SEAL 60 HV application and test condition

Primer	none
Cartridge	room temperature
Temperature	23.0 °C
Humidity	50.5 %
Date of Test	24 January 2013

### Test details

Make	VW
Model	Golf V – 2005
Test standard	FMVSS 212
Order number	pSi-13-0170
Test type	frontal impact
Barrier	rigid barrier
Overlay	100%
Actual impact speed	48.3 km/h
Peak deceleration	51.5 g
Deceleration time	90 ms
Occupants	HIII 50% ATD at each front outboard designated seating position
Airbag ignition	by vehicle ignition

The windscreen adhesive of N.P.T. S.r.l., SIMP SEAL 60 HV was tested at the DTC Dynamic Test Center AG, using a VW Golf V – 2005, and OE windscreen. With the test referring to an FMVSS 212 frontal impact, within a drive away time of **60 minutes**, a crash with a delta-v of 55.0 km/h (including the rebound velocity), and a peak acceleration of 51.5 g was performed. The adhesive SIMP SEAL 60 HV achieved the retention of the windscreen.

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