

MR/SH

5 October 2000

Mr Mukerjee  
Pentagon Auto-Tint  
Unit 4C  
2 Colonial Way  
WATFORD  
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Dear Mr Muckerjee

**Evaluation Number EVQ 150 – Pentagon Supaglass**

The following products have been tested to mutually agreed test criteria based on the appropriate requirements of *The British Insurance Industry's Vehicle Security Scheme*.

- Pentagon Supaglass (Side Window Impact Protection System)

This letter, summary and associated test reports can be shown to the ABI, the LMUA, associated member companies and clients of Pentagon Auto-Tint Ltd.

This letter should be read in conjunction with the test reports. Statements made by Pentagon Auto-Tint Ltd with regard to these reports, must be agreed with Thatcham (and its test houses where applicable)

**'Q' Class Non-Classifiable Systems**

'Q' Class Non-Classifiable Systems are those systems which fall outside the normal Thatcham Vehicle Security classifications.

**Thatcham Vehicle Security Classifications**

- Category 1 Alarm/Immobiliser
- Category 2 Electronic Immobiliser
- Category 2—1 Alarm Upgrade
- Category 3 Mechanical Immobiliser

'Q' Class Non-Classifiable Systems of possible interest to Motor Insurers may include:

- Alternative Alarm Systems
- Anti-Hijack devices
- Cruise controls
- Data recording systems
- Image recorders
- Location systems
- Remote Immobilisation Systems



## Conclusion

Pentagon Auto-Tint Limited submitted the following products for assessment under the "Q" class (Non-Categorised) Test Regime:

- Pentagon Supaglass (Side window impact protection system)

The product was assessed on the following criteria:

- Product Reliability and Durability
- Installation
- Resistance to Attack

### Product Reliability and Durability

Pentagon Auto-Tint Limited is ISO 9002 registered.

The product has been proven to be reliable and durable in an automotive environment and meets both the requirements of ASTM D1044-94 "Standard Test Method for Resistance of Transparent Plastics to Surface Abrasion" and Class A of BS6206 Impact Performance Requirements

### Installation

Pentagon Auto-Tint Limited satisfactorily demonstrated an acceptable standard of quality and performance in the installation of the Supaglass plastic film.

### Resistance to Attack

Supaglass resisted all agreed attack test methods for longer than 30 seconds.

Test	Tools	Sample A	Sample B
8.	Automatic Centre Punch	90 sec	30 sec
9.	Engineering Brick	>120 sec	>120 sec
10.	Claw Hammer	45 sec	45 sec
11.	Life Hammer	>120 sec	>120 sec
12.	Screwdriver	35 sec	35 sec
13.	Sharpened Pozidriver	>120 sec	>120 sec
14.	Spark Plug Shards	>120 sec	>120 sec

## Conclusion

Pentagon Supaglass Plastic Film significantly improves the resistance of toughened glass to common methods of "smash and grab" attack.