

**Determination of Scuffing Resistance**

Report Number: **T15/129-3**  
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Lab. Scheme Number: **2025**


**Client:** Thermagrip Ltd  
**Installer:** Thermagrip Ltd  
**Product for test:** Thermagrip  
**Description of specimen:** (300 x 300 x 3)mm checker plate coated with preform thermoplastic dressed with a mixture of glass grains and fused alumina.  
**Binder type:** Thermoplastic **Aggregate type:** Glass and fused alumina  
**Date of application:** n/a **Date received:** 08-May-15

**Location of Installation:** Thermagrip

<b>Test Method: Determination of scuffing resistance, TRL 176 Appendix G</b>			
Tested in accordance with TRL 176, as amended by BBA " Guidelines Document for the Assessment and Certification of High Friction Surfaces for Highways" March 2008. The material was scuffed at 35°C as specified for a TYPE 3 high friction surfacing . Skid resistance value was determined using slider 96 (96 IRHD) since this is more simulative of hard solid tyres as found on fork lift trucks Test results are compared to an untreated specimen of steel checker plate			
<b>Laboratory tests</b>	<b>Thermagrip</b>	<b>Untreated plate</b>	<b>BBA HAPAS requirement for TYPE 3 HFS</b>
<b>Initial Properties</b>			
Texture depth (mm)	<b>0.9</b>	1.2	1.0 minimum
Skid resistance value (Slider 96)	<b>64</b>	51	65 minimum
<b>Properties after scuffing at 35°C</b>			
Texture depth (mm)	<b>0.6</b>		0.8 minimum
Loss in texture depth %	<b>30.2</b>		Information only
Erosion Index	<b>0.0</b>		15 maximum
Skid resistance value (Slider 96)	<b>50</b>		Information only

**Remarks**

**Distribution:**  
 Thermagrip Ltd  
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 King Edward Street  
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 SK10 1AQ  
 Jonathan Hamp

  
**Paul Shrubsole**  
 Authorised By:  
 Approved Signatory  
 PG Shrubsole ( ) Principal Materials Engineer

Date: **07-Aug-15**

## Test Method: Determination of scuffing, TRL 176 Appendix G

as amended by BBA " Guidelines Document for the Assessment and Certification of High Friction Surfaces for Highways" March 2008

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Specimen Number	<b>129-3</b>	
Identification of slab	<b>129-3</b>	
Texture depth of substrate (mm)	1.2	
Thickness of coating (mm)	3.0	
SRV before Scuffing	64.0	
Date of test	<b>20/05/2015</b>	
Time of test	<b>10:15</b>	
Test Temperature (°C)	<b>35.3</b>	
Tyre Pressure (Bar)	Initial	<b>3.1</b>
	Final	<b>3.1</b>
Tyre tread depth (mm)	Initial	<b>1.5</b>
	Final	<b>1.5</b>
Angle of Tyre to direction of travel	<b>20°00'</b>	
Surface texture depth (mm)	Initial	<b>0.9</b>
	Final	<b>0.6</b>
Loss of texture depth (%)	<b>30.2</b>	
SRV after Scuffing	50.0	
Erosion Index	<b>0.0</b>	
Description of visual condition	<b>No faults or anomalies were observed</b>	

After 500 wheel passes at 35°C

