



**Specialised  
Testing  
Laboratory** (Pty) Ltd  
Asphalt | Aggregate | Bitumen | Geotechnical

Unit 1, 13 Bloubokkie Street, Koedoespoort 0186

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**Test Methods: SANS 3001-AS1 / AS2 / AS10  
/ AS11 / TMH1 C7 / TMH1 C12T**

**Sheet Reference:  
R-STL-003 Rev01**

Client: Strada Investment Group (Pty) Ltd  
Project Name: Asphalt Compliance Testing  
Job ref no: -

Job ref no: PVT-544  
Date: 23.10.2025  
Additional info: Sample submitted by client

Laboratory number	4088						
Client reference number							
Type of mix	Cold Mix						
Type of binder							
Date sampled							
Road No.:							
Chainage							
Temperature during sampling (°C)*							
Additional information							
Compaction Temperature (°C)*	105						
Sieve Size (mm)	UOM	SIEVE ANALYSIS (% PASSING)					Average
37.5	%						
28	%						
20	%						
14	%	100					100
10	%	99					99
7.1	%	90					90
5	%	78					78
2	%	41					41
1	%	25					25
0.600	%	18					18
0.300	%	12					12
0.150	%	10					10
0.075	%	7.7					7.7
Binder Content	%	3.2					3.2
Test	UOM	4088					Average
Marshall Density	kg/m <sup>3</sup>	2436					2436
MVD	kg/m <sup>3</sup>	2704					2704
Marshall Voids	%	9.9					9.9
Stability	kN	6.3					6.3
Flow	mm	2.5					2.5
ITS	kPa	421					421
Air Permeability	cm <sup>2</sup> x 10 <sup>-8</sup>						
Gyratory Voids	%						
Dynamic Creep	MPa						
Hamburg WTT (20 000)	mm						
Lottman	Ratio						

**Remarks:**

Sample for MVD & Binder Content was placed 24 hours in the oven @ 110 Degrees before testing.  
Briquettes cured for 7-Days before testing under atmospheric conditions.

Although everything possible is done to ensure testing is performed accurately, neither Specialised Testing Laboratory (Pty) Ltd nor any of its directors, managers, employees or contractors can be held liable for any damages whatsoever arising from any error made in performing any tests, nor from any conclusions drawn therefrom. Test results are to be published in full. Samples will be kept for 1 month after the submission of test results due to limited storage space, unless other arrangements are in place. Confidentiality statement: Unless the release of information is required by law or covered by confidentiality agreements all information obtained or created during the performance of laboratory activities will be kept confidential.



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**ASPHALT REPORT : CANTABRO ABRASIONS** Test Method: SABITA Manual 17 Sheet Reference: R-STL-033 Rev01

Client: <u>Strada Investment Group (Pty) Ltd</u>	Job ref no: <u>PVT-544</u>
Project Name: <u>Asphalt Compliance Testing</u>	Date: <u>23.10.2025</u>
Mix Type: <u>Cold Mix</u>	Lab no: <u>4088</u>
Binder Type: <u>-</u>	Source: <u>-</u>
Binder %: <u>-</u>	Sample No.: <u>-</u>
Date of Sample: <u>-</u>	Additional info: <u>Sample submitted by Client</u>

**CANTABRO ABRASION LOSS**

Briquette Number		A	B	C		
Initial Mass of Briquette	g	1185.8	1189.6	1192.5		
Final Mass of Briquette	g	1143.0	1140.0	1141.0		
<b>Percentage Loss</b>	<b>%</b>	3.6	4.2	4.3		
<b>Average Percentage Loss</b>	<b>%</b>	<b>4.0</b>				

**CANTABRO ABRASION LOSS (RESISTANCE TO MOISTURE DAMAGE)**

Briquette Number						
Calculated BRD	kg/m <sup>3</sup>					
Initial Mass of Briquette	g					
Final Mass of Briquette	g					
<b>Percentage Loss</b>	<b>%</b>					
<b>Average Percentage Loss</b>	<b>%</b>					

**CANTABRO ABRASION LOSS (RESISTANCE TO AGEING)**

Briquette Number						
Calculated BRD	kg/m <sup>3</sup>					
Initial Mass of Briquette	g					
Final Mass of Briquette	g					
<b>Percentage Loss</b>	<b>%</b>					
<b>Average Percentage Loss</b>	<b>%</b>					

**Remarks:** Tested at 25°C and briquettes cured for 7-Days before testing under atmospheric conditions.

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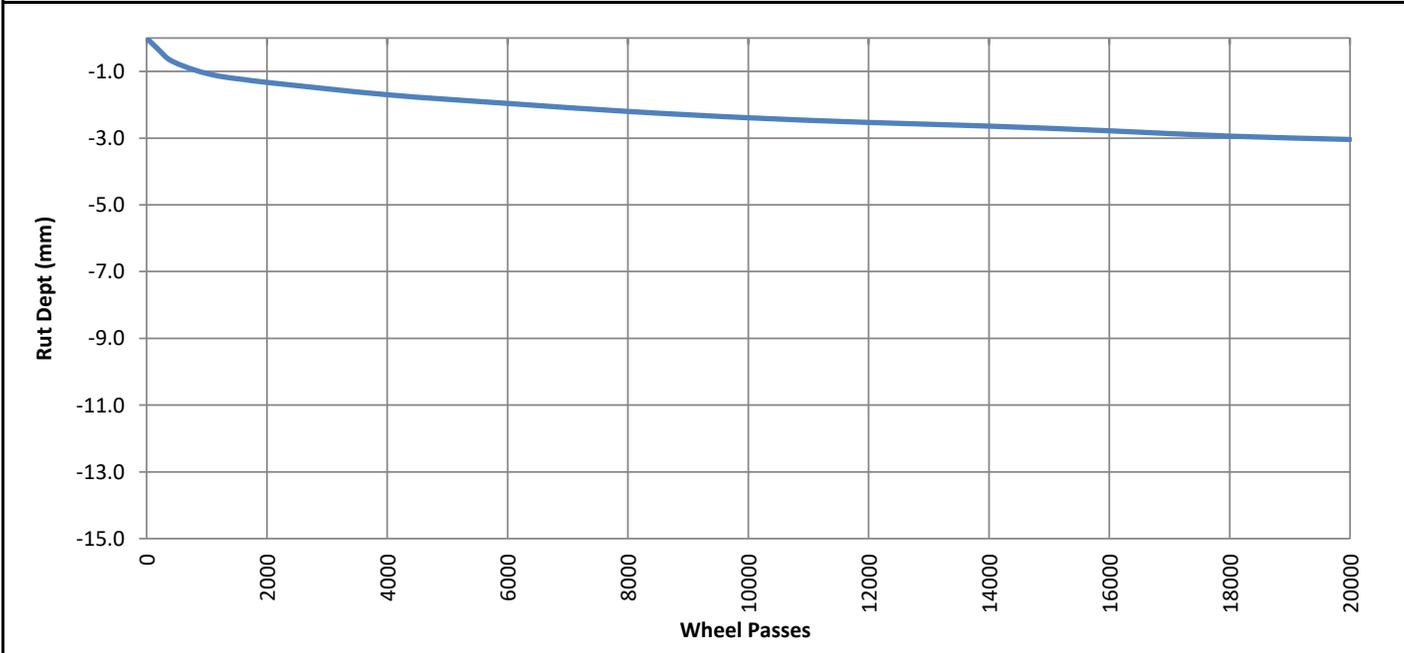
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**HAMBURG WHEEL TRACKING TEST RESULTS** **Test Method:** AASHTO T324 **Sheet Reference:** R-STL-030 Rev01

Client: <u>Strada Investment Group (Pty) Ltd</u>	Job ref no: <u>PVT-544</u>
Project Name: <u>Asphalt Compliance Testing</u>	Date: <u>31.10.2025</u>
Mix Type: <u>Cold Mix</u>	Lab no: <u>4088</u>
Binder Type: <u>-</u>	Source: <u>-</u>
Binder %: <u>-</u>	Sample no: <u>-</u>
Date of Sample: <u>-</u>	Additional info: <u>Sample submitted by Client</u>

**HAMBURG WHEEL TRACKING TEST RESULTS & PARAMETERS**

HMA Production (Field or Lab)	:	Laboratory (Gyratory)
Compaction Method	:	Gyratory
Number of passes at max impression	:	20 000
Maximum Impression (RUT)	:	<b>3.04mm</b>
Test Temperature - Wet (°C)	:	50
Corelok BD (kg/m <sup>3</sup> )	:	2509
MVD (kg/m <sup>3</sup> )	:	2704
Air Voids - Corelok (%)	:	7.21
Type and % of Anti Stripping Agent	:	-
Creep Slope	:	-
Strip Slope	:	-
Stripping Inflection Point	:	-



**Remarks:** Briquettes cured for 7-Days before testing under atmospheric conditions.

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## ASPHALT REPORT : MODIFIED LOTTMAN

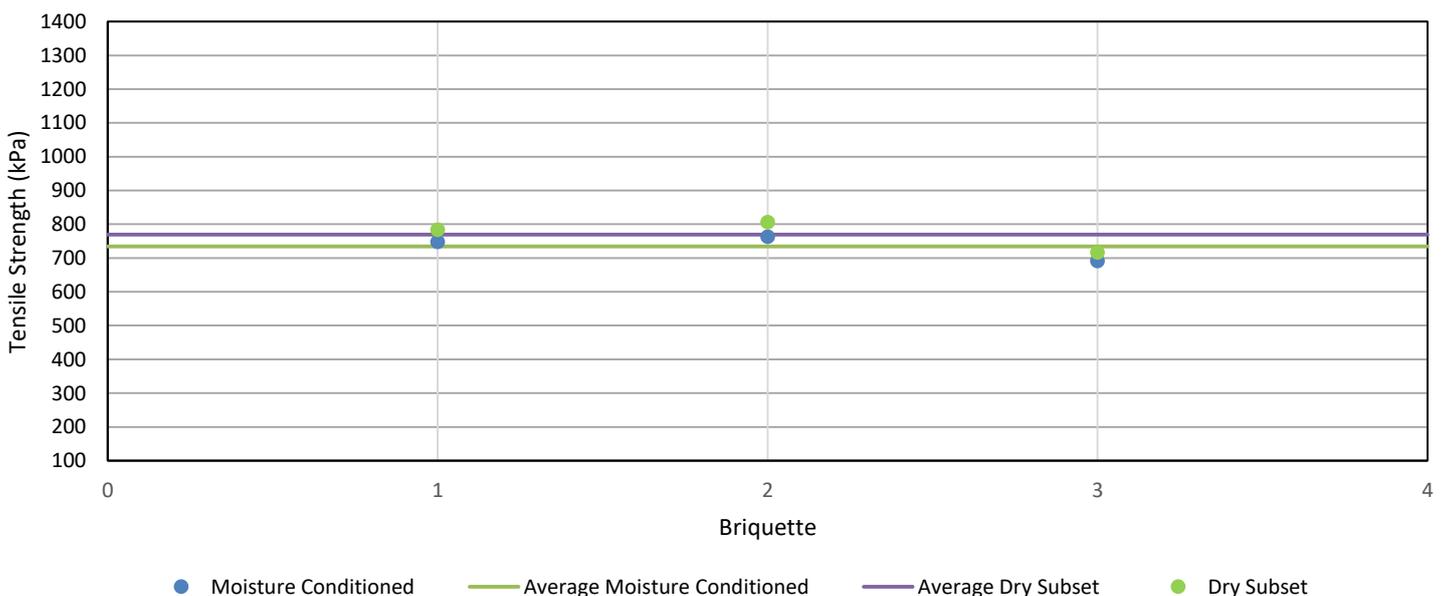
**Test Method:**  
ASTM D4867

**Sheet Reference:**  
R-STL-008 Rev01

Client: <u>Strada Investment Group (Pty) Ltd</u>	Job ref no: <u>PVT-544</u>
Project Name: <u>Asphalt Compliance Testing</u>	Date: <u>23.10.2025</u>
Mix Type: <u>Cold Mix</u>	Lab no: <u>4088</u>
Binder Type: <u>-</u>	Source: <u>-</u>
Binder %: <u>-</u>	Sample no: <u>-</u>
Date of Sample: <u>-</u>	Additional info: <u>Sample submitted by Client</u>

### MODIFIED LOTTMAN TEST RESULTS

Description	UOM	Moisture-Conditioned Subset			Dry Subset		
Number of Specimens Tested	No	3			3		
Average Air Voids	%	7.60			7.65		
Average Degree of Saturation after Partial Saturation	%	61.7					
Average Degree of Saturation after Moisture Conditioning	%	66.9					
Average Swell after Partial Saturation	%	-0.04					
Average Swell after Moisture Conditioning	%	-0.15					
Tensile Strength of each Specimen	kPa	749	763	691	784	807	717
Average Tensile Strength	kPa	734			769		
Tensile Strength Ratio	Ratio	0.95					



**Remarks:** Briquettes cured for 7-Days before testing under atmospheric conditions.

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