FIFA INSTALLATION TEST REPORT

TM Football Turf I 2015
01.01.2015

Name	Davison CofE Schhool for Girls
Products	RGF XM7 60-10,5 SBR
FIFA Licensee	FieldTurf Inc.
Test Institute	Surface Performance Ltd.

Test Number	142279
External Test Number	SP4255
Date of Test	12.08.2024
Test Result	Passed
Quality Level	FIFA Quality
Test Type	Initial

Licensee

Main Address

Name	FieldTurf Inc.
Address	7445 Cote-de-Liesse Rd, Suite 200
ZIP / City	H4T 1G2 / MONTREAL, QUEBEC
Website	www.fieldturf.com

Contact Email	
Contact Phone	
Contact Mobile	

Test institute

Main Address

Name	Surface Performance Ltd.
Address	Surface Performance Ltd Unit 16 Vicarage Farm Sunbury On Thames
ZIP / City	TW16 6DW / London
Website	
Contact Email	
Contact Phone	
Contact Mobile	

Applicant

Main Address

Name / Club	- Davison CofE School for Girls
Address	Davison CofE School for Girls, Selborne Road
ZIP / City	BN11 2JX / Worthing
Website	

Approval

Test Institute Director	Callum Reid
Signature	
Date	20.08.2024

Test Institute Engineer	Cesar Reginaldo de Almeida
Signature	
Date	20.08.2024

1 – Test Results

Name	Comment	Result
1 – Summary		
Visual inspection	Mandatory	Passed
Product Identification field product	Mandatory	Passed
Product Identification line product	Mandatory	Passed
Vertical ball rebound	Mandatory	Passed
Ball Roll	Mandatory	Passed
Shock absorbency	Mandatory	Passed
Rotational resistance	Mandatory	Passed
Deformation	Mandatory	Passed
Regularity of the surface	Mandatory	Passed
Does any additional testing or diagnostic performed fails?		No
If applicable, reference of the additional testing report:		
If applicable, which part of the installation failed the additional testing or diagnostic?		
Sprinkler system on site (if available)	Mandatory if sprinklers within playing area	
Field design| Minimising infill migration into the environment | Drainage filters	Recommended	No
Field design| Minimising infill migration into the environment | Perimeter fencing	Recommended	No
Field design| Minimising infill migration into the environment | Decontamination Access Point	Recommended	No
Field design| Minimising infill migration into the environment | Boot Cleaning Station	Recommended	No
Field design| Minimising infill migration into the environment | Snow storage area	Recommended (snow on field)	No
Maintenance equipment	Mandatory	Passed
2 - Test Details | Maintenance		
Date of maintenance training by licensee	Mandatory	30.07.2024
Participants names (ground staff)	Mandatory	S and C Slatter Ltd
Tractor Unit	Mandatory	No
Drag Brush	Mandatory	No
Drag Mat	Recommended	No
Ball Roll Ramp	Mandatory	No
Maintenance logbook	Mandatory	No
Maintenance Manual	Mandatory	No
Top up infill material	Mandatory	No
Maintenance contract available (mandatory if no equipment on site)	Optional	Yes
Other, detail		Maintenance completed by S and C Slatter Ltd
Sprinkler system on site (if available)	Optional	
a) Sprinklers within playing area		No
b) If a) YES: additional shock absorbtion/deformation test OK	Mandatory if sprinklers within playing area	No

Name	Comment	Result
2 - Test Details | Object		
Date of installation		30.07.2024
Product Name Field		RGF XM7 60-10,5 SBR
Product Name Lines		RGF XM7 60-10,5 White
Installer		S and C Slatter Ltd
Synthetic Turf System		3G
Performance infill		SBR
Stabilising infill		Sand
Shock-pad or elastic layer		In Situ
Sub-base composition		Engineered
Field dimension | lenght [m]	min. 90m / max.120m	91.0
Field dimension | width [m]	min. 45m / max. 90m	55.0
2 - Test Details | Technicians, weather conditions		
Date(s) of test		12.08.2024
FIFA accredited Engineer on site		Cesar Reginaldo de Almeida
Other Test Engineer on site		
Test Institute Project number		SP4255
Surface condition | Day 1	Dry or Wet	Dry
Surface temperature °C (min.) | Day 1		25.30
Surface temperature °C (max.) | Day 1		37.30
Ambient temperature °C (min.) | Day 1		20.10
Ambient temperature °C (max.) | Day 1		20.70
Humidity %RH (min.) | Day 1		49.10
Humidity %RH (max.) | Day 1		57.90
Maximum wind speed m/s | Ball Roll		0.70
Maximum wind speed m/s | Ball Rebound		0.70
3 – Product Declaration (Manufacturer)		
3 – Test Results | Ball / Surface Interaction		
Vertical Rebound 1	0.60 – 1.00 m	0.77
Vertical Rebound 2	0.60 – 1.00 m	0.78
Vertical Rebound 3	0.60 – 1.00 m	0.77
Vertical Rebound 4	0.60 – 1.00 m	0.79
Vertical Rebound 5	0.60 – 1.00 m	0.79
Vertical Rebound 6	0.60 – 1.00 m	0.77
Consistency 1	± 10%	1.50
Consistency 2	± 10%	0.00
Consistency 3	± 10%	1.50
Consistency 4	± 10%	1.50
Consistency 5	± 10%	1.50
Consistency 6	± 10%	1.50
Ball roll 1	4.0 – 10.0 m	5.40
Ball roll 2	4.0 – 10.0 m	5.40
Ball roll 3	4.0 – 10.0 m	5.50
Ball roll 4	4.0 – 10.0 m	5.70
Ball roll 5	4.0 – 10.0 m	5.90
Ball roll 6	4.0 – 10.0 m	5.60
Consistency 1	± 15%	3.50
Consistency 2	± 15%	3.50

Name	Comment	Result
Consistency 3	± 15%	1.50
Consistency 4	± 15%	2.00
Consistency 5	± 15%	5.50
Consistency 6	± 15%	0.50
3 – Test Results | Player / Surface Interaction		
Rotational resistance 1	25-50Nm	28.00
Rotational resistance 2	25-50Nm	28.00
Rotational resistance 3	25-50Nm	28.00
Rotational resistance 4	25-50Nm	29.00
Rotational resistance 5	25-50Nm	29.00
Rotational resistance 6	25-50Nm	29.00
Consistency 1	± 10%	2.00
Consistency 2	± 10%	2.00
Consistency 3	± 10%	2.00
Consistency 4	± 10%	2.00
Consistency 5	± 10%	2.00
Consistency 6	± 10%	2.00
Shock absorption A	55.0 – 70.0%	69.70
Shock absorption B	55.0 – 70.0%	68.50
Shock absorption C	55.0 – 70.0%	67.70
Shock absorption D	55.0 – 70.0%	69.10
Shock absorption E	55.0 – 70.0%	67.40
Shock absorption F	55.0 – 70.0%	68.50
Shock absorption G	55.0 – 70.0%	67.10
Shock absorption H	55.0 – 70.0%	67.20
Shock absorption I	55.0 – 70.0%	67.10
Shock absorption J	55.0 – 70.0%	68.60
Shock absorption K	55.0 – 70.0%	68.00
Shock absorption L	55.0 – 70.0%	69.30
Shock absorption M	55.0 – 70.0%	67.30
Shock absorption N	55.0 – 70.0%	68.90
Shock absorption O	55.0 – 70.0%	69.80
Shock absorption P	55.0 – 70.0%	69.30
Shock absorption Q	55.0 – 70.0%	68.50
Shock absorption R	55.0 – 70.0%	68.70
Shock absorption S	55.0 – 70.0%	69.70
Consistency A	± 10%	2.00
Consistency B	± 10%	0.00
Consistency C	± 10%	1.00
Consistency D	± 10%	1.00
Consistency E	± 10%	1.50
Consistency F	± 10%	0.00
Consistency G	± 10%	2.00
Consistency H	± 10%	2.00
Consistency I	± 10%	2.00
Consistency J	± 10%	0.00
Consistency K	± 10%	0.50
Consistency L	± 10%	1.50
Consistency M	± 10%	1.50
Consistency N	± 10%	0.50
Consistency O	± 10%	2.00
Consistency P	± 10%	1.50

Name	Comment	Result
Consistency Q	± 10%	0.00
Consistency R	± 10%	0.50
Consistency S	± 10%	2.00
Deformation A	4.0 – 11.0 mm	11.00
Deformation B	4.0 – 11.0 mm	10.50
Deformation C	4.0 – 11.0 mm	10.50
Deformation D	4.0 – 11.0 mm	11.00
Deformation E	4.0 – 11.0 mm	10.00
Deformation F	4.0 – 11.0 mm	10.50
Deformation G	4.0 – 11.0 mm	10.00
Deformation H	4.0 – 11.0 mm	10.00
Deformation I	4.0 – 11.0 mm	10.00
Deformation J	4.0 – 11.0 mm	10.50
Deformation K	4.0 – 11.0 mm	10.50
Deformation L	4.0 – 11.0 mm	11.00
Deformation M	4.0 – 11.0 mm	10.00
Deformation N	4.0 – 11.0 mm	11.00
Deformation O	4.0 – 11.0 mm	11.00
Deformation P	4.0 – 11.0 mm	11.00
Deformation Q	4.0 – 11.0 mm	10.50
Deformation R	4.0 – 11.0 mm	10.50
Deformation S	4.0 – 11.0 mm	11.00
Consistency A	± 15%	4.00
Consistency B	± 15%	0.50
Consistency C	± 15%	0.50
Consistency D	± 15%	4.00
Consistency E	± 15%	5.00
Consistency F	± 15%	0.50
Consistency G	± 15%	5.00
Consistency H	± 15%	5.00
Consistency I	± 15%	5.00
Consistency J	± 15%	0.50
Consistency K	± 15%	0.50
Consistency L	± 15%	4.00
Consistency M	± 15%	5.00
Consistency N	± 15%	4.00
Consistency O	± 15%	4.00
Consistency P	± 15%	4.00
Consistency Q	± 15%	0.50
Consistency R	± 15%	0.50
Consistency S	± 15%	4.00
3 – Test Results | Product Identification		
Other, detail		
3 – Test Results | Product identification field product		
Carpet mass [g/m2] | Sample on site		2975
Carpet mass [g/m2] | Product Declaration		2916.0
Carpet mass [g/m2] | Variation	≤ ± 10%	2
Tufts / m2 | Sample on site		11293
Tufts / m2| Product Declaration		11024.0
Tufts / m2 [%] | Variation	≤ ± 10%	2
Tuft withdrawal force [N] | Sample on site	≥ 40 N	50

Name	Comment	Result
Tuft withdrawal force [N] | Product Declaration		40.0
Tuft withdrawal force [N] | Variation	≥ 90%	125
Pile length above backing [mm] | Sample on site | yarn 1		60
Pile length above backing [mm] | Product Declaration | yarn 1		60.0
Pile length above backing [mm] | Variation | yarn 1	≤ ± 5%	0
Pile length above backing [mm] | Sample on site | yarn 2		60
Pile length above backing [mm] | Product Declaration | yarn 2		60.0
Pile length above backing [mm] | Variation | yarn 2	≤ ± 5%	0
Pile length above backing [mm] | Sample on site | yarn 3		60
Pile length above backing [mm] | Product Declaration | yarn 3		60.0
Pile length above backing [mm] | Variation | yarn 3	≤ ± 5%	0
Pile weight above backing [g/m2]| Sample on site | yarn 1		420
Pile weight above backing [g/m2]| Product Declaration | yarn 1		432.0
Pile weight above backing [g/m2]| Variation | yarn 1	≤ ± 10%	3
Pile weight above backing [g/m2]| Sample on site | yarn 2		563
Pile weight above backing [g/m2]| Product Declaration | yarn 2		577.0
Pile weight above backing [g/m2]| Variation | yarn 2	≤ ± 10%	2
Pile weight above backing [g/m2]| Sample on site | yarn 3		662
Pile weight above backing [g/m2]| Product Declaration | yarn 3		667.0
Pile weight above backing [g/m2]| Variation | yarn 3	≤ ± 10%	1
Pile yarn dtex [g/10000m] | Sample on site | yarn 1		5684
Pile yarn dtex [g/10000m] | Product Declaration | yarn 1		5700.0
Pile yarn dtex [g/10000m] | Variation | yarn 1	≤ ± 10%	0
Pile yarn dtex [g/10000m] | Sample on site | yarn 2		7596
Pile yarn dtex [g/10000m] | Product Declaration | yarn 2		7600
Pile yarn dtex [g/10000m] | Variation | yarn 2	≤ ± 10%	0
Pile yarn dtex [g/10000m] | Sample on site | yarn 3		8929
Pile yarn dtex [g/10000m] | Product Declaration | yarn 3		8800.0

Name	Comment	Result
Pile yarn dtex [g/10000m] | Variation | yarn 3	≤ ± 10%	1
Pile yarn characteristics | Sample on site | yarn 1		PE
Pile yarn characteristics | Product Declaration | yarn 1		PE
Pile yarn characteristics | Variation | yarn 1	Same polymer	Yes
Pile yarn characteristics | Sample on site | yarn 2		PE
Pile yarn characteristics | Product Declaration | yarn 2		PE
Pile yarn characteristics | Variation | yarn 2	Same polymer	Yes
Pile yarn characteristics | Sample on site | yarn 3		PE
Pile yarn characteristics | Product Declaration | yarn 3		PE
Pile yarn characteristics | Variation | yarn 3	Same polymer	Yes
Yarn Thickness [µm] | Sample on site | yarn 1		358
Yarn Thickness [µm] | Product Declaration | yarn 1		360.0
Yarn Thickness [%] | Variation | yarn 1	≥ 90%	99
Yarn Thickness [µm] | Sample on site | yarn 2		336
Yarn Thickness [µm] | Product Declaration | yarn 2		360.0
Yarn Thickness [%] | Variation | yarn 2	≥ 90%	93
Yarn Thickness [µm] | Sample on site | yarn 3		126
Yarn Thickness [µm] | Product Declaration | yarn 3		110.0
Yarn Thickness [%] | Variation | yarn 3	≥ 90%	115
Water permeability of carpet [mm/h] | Sample on site	≥ 180 mm/h	2204
Water permeability of carpet [mm/h] | Lab result	≥ 180 mm/h	2000
Water permeability of carpet [%] | Variation	> 75 % of lab result	110
UV stabilizer | yarn sample retained		No
Performance infill | Particle size range | Sample on site		0.8 - 2.0
Performance infill | Particle size range | Product Declaration		0.63 - 2.5
Performance infill | Particle size range | Variation	±one sieve; 60 %	Passed
Performance infill | Particle shape | Sample on site		A2
Performance infill | Particle shape | Product Declaration		Angular
Performance infill | Particle shape | Variation	Similar shape	Yes
Performance infill | Bulk density [g/cm3] | Sample on site		0.405
Performance infill | Bulk density [g/cm3] | Product Declaration		0.430
Performance infill | Bulk density [g/cm3] | Variation	≤ ± 15%	6.00
Performance infill | Theremographic analysis | Organic [%]		63.0

Name	Comment	Result
Performance infill | Theremographic analysis | Organic [%] - Product Declaration		63.6
Performance infill | Theremographic analysis | Organic [%] - Variation		1.0
Performance infill | Theremographic analysis | Inorganic [%]		37.0
Performance infill | Theremographic analysis | Inorganic [%] - Product Declaration		36.4
Performance infill | Theremographic analysis | Inorganic [%] - Variation		2.0
Performance infill | Theremographic analysis | Elastomer [%]		58.7
Performance infill | Theremographic analysis | Elastomer [%] - Product Declaration		57.3
Performance infill | Theremographic analysis | Elastomer [%] - Variation		2.0
Stabilizing infill | Particle size range | Sample on site		0.315 - 0.8
Stabilizing infill | Particle size range | Product Declaration		0.315 - 1.0
Stabilizing infill | Particle size range | Variation	±one sieve; 60 %	Passed
Stabilizing infill | Particle shape | Sample on site		C2
Stabilizing infill | Particle shape | Product Declaration		Rounded
Stabilizing infill | Particle shape | Variation	Similar shape	Yes
Stabilizing infill | Bulk density [g/cm3] | Sample on site		1.50
Stabilizing infill | Bulk density [g/cm3] | Product Declaration		1.40
Stabilizing infill | Bulk density [g/cm3] | Variation	≤ ± 15%	7
3 – Test Results | Product identification line product		
Carpet mass [g/m2] | Sample on site		2975
Carpet mass [g/m2] | Product Declaration		2916.0
Carpet mass [g/m2] | Variation	≤ ± 10%	2
Tufts / m2 | Sample on site		5647
Tufts / m2| Product Declaration		5512.0
Tufts / m2 [%] | Variation	≤ ± 10%	2
Tuft withdrawal force [N] | Sample on site		48
Tuft withdrawal force [N] | Product Declaration		40.0
Tuft withdrawal force [N] | Variation	≥ 90%	120
Pile length above backing [mm] | Sample on site | yarn 1		60
Pile length above backing [mm] | Product Declaration | yarn 1		60.0
Pile length above backing [mm] | Variation | yarn 1	≤ ± 5%	0
Pile length above backing [mm] | Sample on site | yarn 2		60

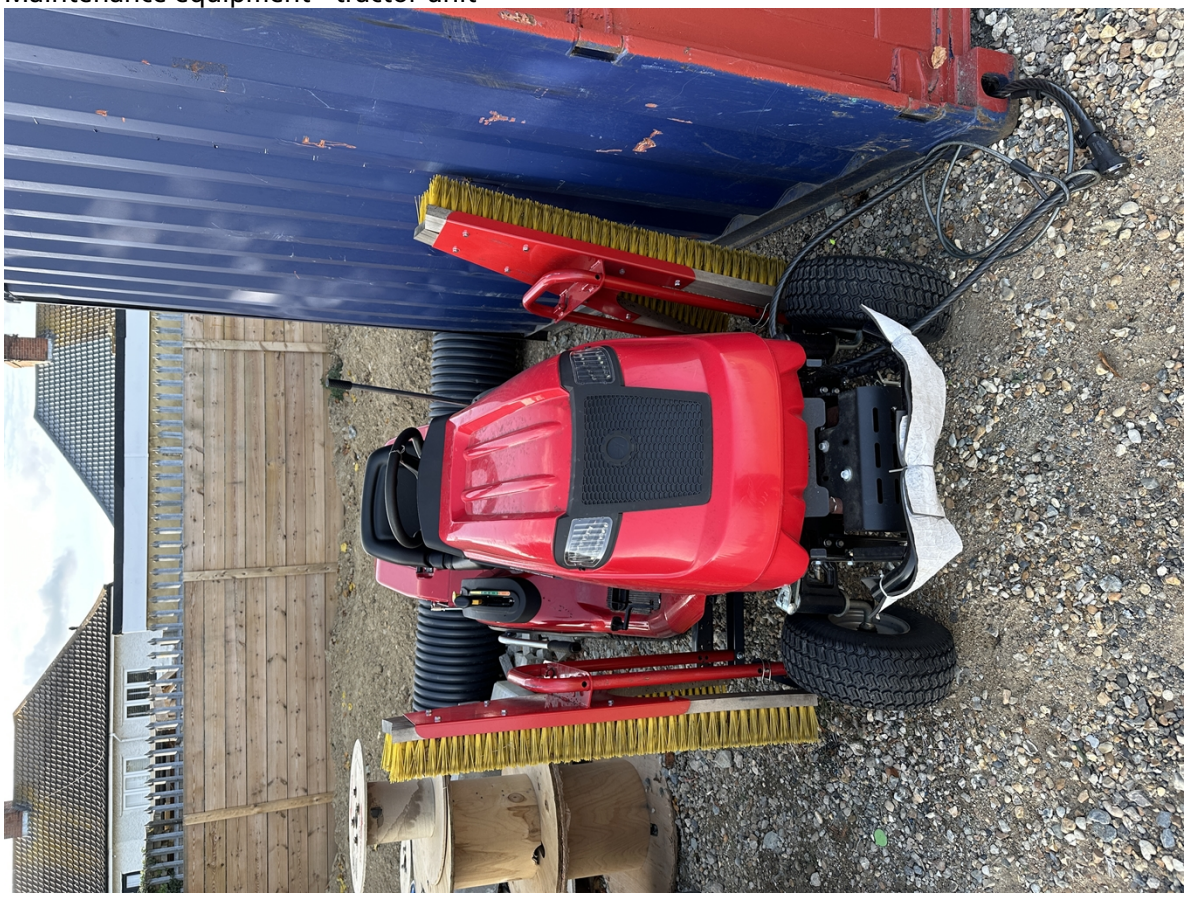
Name	Comment	Result
Pile length above backing [mm] | Product Declaration | yarn 2		60.0
Pile length above backing [mm] | Variation | yarn 2	≤ ± 5%	0
Pile length above backing [mm] | Sample on site | yarn 3		
Pile length above backing [mm] | Product Declaration | yarn 3		
Pile length above backing [mm] | Variation | yarn 3	≤ ± 5%	
Pile weight above backing [g/m2]| Sample on site | yarn 1		983
Pile weight above backing [g/m2]| Product Declaration | yarn 1		1009.0
Pile weight above backing [g/m2]| Variation | yarn 1	≤ ± 10%	3
Pile weight above backing [g/m2]| Sample on site | yarn 2		662
Pile weight above backing [g/m2]| Product Declaration | yarn 2		667.0
Pile weight above backing [g/m2]| Variation | yarn 2	≤ ± 10%	1
Pile weight above backing [g/m2]| Sample on site | yarn 3		
Pile weight above backing [g/m2]| Product Declaration | yarn 3		
Pile weight above backing [g/m2]| Variation | yarn 3	≤ ± 10%	
Pile yarn dtex [g/10000m] | Sample on site | yarn 1		13389
Pile yarn dtex [g/10000m] | Product Declaration | yarn 1		13300.0
Pile yarn dtex [g/10000m] | Variation | yarn 1	≤ ± 10%	1
Pile yarn dtex [g/10000m] | Sample on site | yarn 2		9166
Pile yarn dtex [g/10000m] | Product Declaration | yarn 2		8800.0
Pile yarn dtex [g/10000m] | Variation | yarn 2	≤ ± 10%	4
Pile yarn dtex [g/10000m] | Sample on site | yarn 3		
Pile yarn dtex [g/10000m] | Product Declaration | yarn 3		
Pile yarn dtex [g/10000m] | Variation | yarn 3	≤ ± 10%	
Pile yarn characteristics | Sample on site | yarn 1		PE
Pile yarn characteristics | Product Declaration | yarn 1		PE
Pile yarn characteristics | Variation | yarn 1	Same polymer	Yes
Pile yarn characteristics | Sample on site | yarn 2		PE
Pile yarn characteristics | Product Declaration | yarn 2		PE
Pile yarn characteristics | Variation | yarn 2	Same polymer	Yes

Name	Comment	Result
Pile yarn characteristics | Sample on site | yarn 3		
Pile yarn characteristics | Product Declaration | yarn 3		
Pile yarn characteristics | Variation | yarn 3	Same polymer	
Yarn Thickness [µm] | Sample on site | yarn 1		390
Yarn Thickness [µm] | Product Declaration | yarn 1		360.0
Yarn Thickness [%] | Variation | yarn 1	≥ 90%	108
Yarn Thickness [µm] | Sample on site | yarn 2		134
Yarn Thickness [µm] | Product Declaration | yarn 2		100.0
Yarn Thickness [%] | Variation | yarn 2	≥ 90%	134
Yarn Thickness [µm] | Sample on site | yarn 3		
Yarn Thickness [µm] | Product Declaration | yarn 3		
Yarn Thickness [%] | Variation | yarn 3	≥ 90%	
Water permeability of carpet [mm/h] | Sample on site	≥ 180 mm/h	
Water permeability of carpet [mm/h] | Lab result	≥ 180 mm/h	
Water permeability of carpet [%] | Variation	> 75 % of lab result	
UV stabilizer | yarn sample retained	Same	No
3 – Test Results | Shock pad / Elastic layer		
Shock absorption [%] | Product Declaration		
Shock absorption [%] | Value 1		
Shock absorption [%] | Variation 1	± 5%	
Shock absorption [%] | Value 2		
Shock absorption [%] | Variation 2	± 5%	
Shock absorption [%] | Value 3		
Shock absorption [%] | Variation 3	± 5%	
Shock absorption [%] | Value 4		
Shock absorption [%] | Variation 4	± 5%	
Thickness [%] | Product Declaration		
Thickness [%] | Value 1		
Thickness [%] | Correlation Result/Declaration 1	≥ 90%	
Thickness [%] | Value 2		
Thickness [%] | Correlation Result/Declaration 2	≥ 90%	
Thickness [%] | Value 3		
Thickness [%] | Correlation Result/Declaration 3	≥ 90%	
Thickness [%] | Value 4		
Thickness [%] | Correlation Result/Declaration 4	≥ 90%	
3 – Test Results |Field characteristics		
Infill depth A	mm	36.00
Infill depth B	mm	33.00
Infill depth C	mm	33.00
Infill depth D	mm	35.00
Infill depth E	mm	30.00

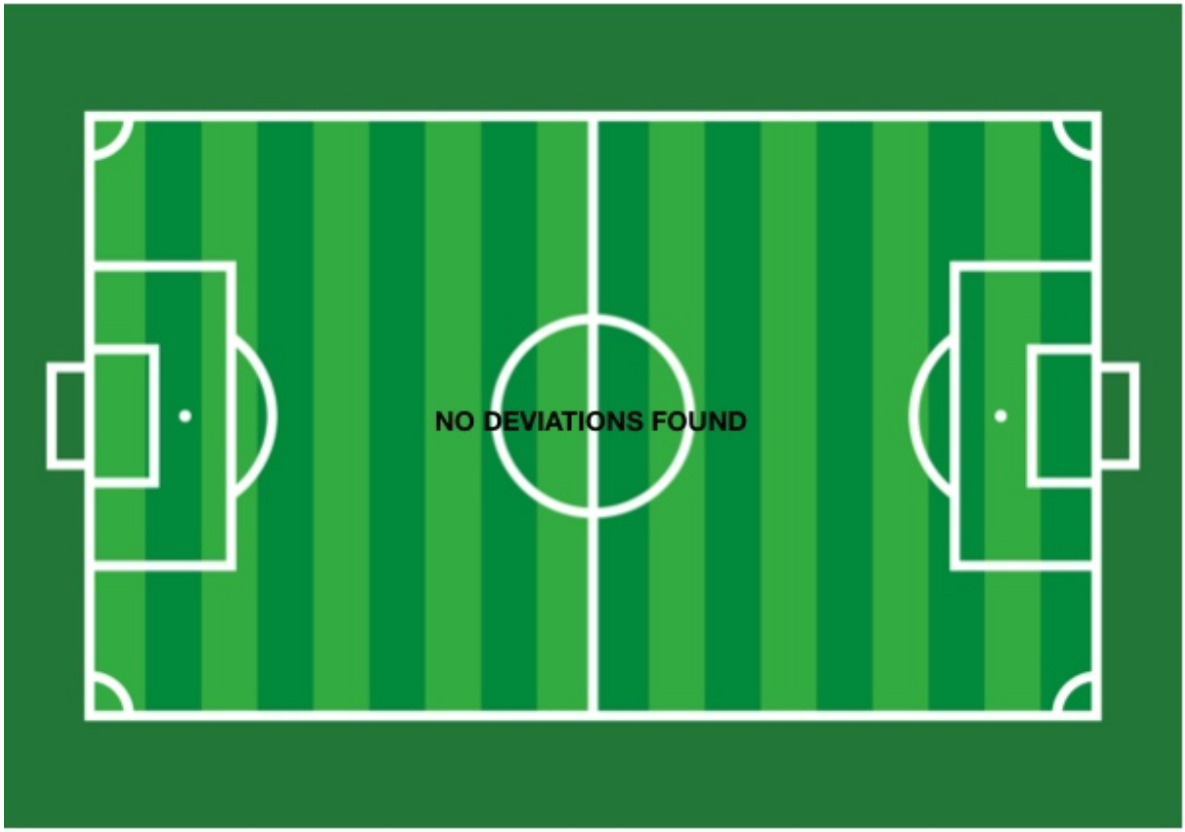
Name	Comment	Result
Infill depth F	mm	32.00
Infill depth G	mm	30.00
Infill depth H	mm	35.00
Infill depth I	mm	31.00
Infill depth J	mm	34.00
Infill depth K	mm	34.00
Infill depth L	mm	34.00
Infill depth M	mm	30.00
Infill depth N	mm	33.00
Infill depth O	mm	30.00
Infill depth P	mm	29.00
Infill depth Q	mm	32.00
Infill depth R	mm	32.00
Infill depth S	mm	35.00
Free pile height A	mm	21.00
Free pile height B	mm	21.00
Free pile height C	mm	20.00
Free pile height D	mm	20.00
Free pile height E	mm	25.00
Free pile height F	mm	24.00
Free pile height G	mm	21.00
Free pile height H	mm	23.00
Free pile height I	mm	25.00
Free pile height J	mm	21.00
Free pile height K	mm	25.00
Free pile height L	mm	24.00
Free pile height M	mm	24.00
Free pile height N	mm	23.00
Free pile height O	mm	22.00
Free pile height P	mm	20.00
Free pile height Q	mm	22.00
Free pile height R	mm	20.00
Free pile height S	mm	23.00
Other, detail		

2 – Test Images

Maintenance equipment - tractor unit



Planarity & Visual Inspection



Annexes to report - Sub-base check



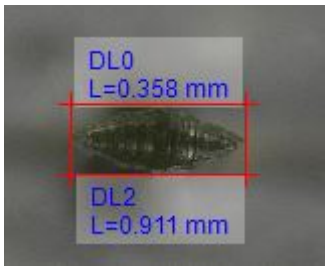
Annexes to report - Photo of field from centre



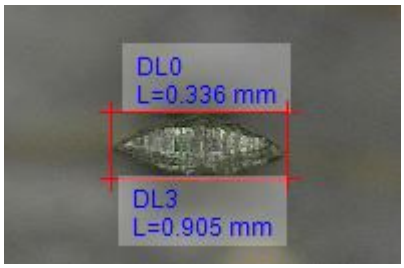
Annexes to report - Photo of field from corner



Cross-section Yarn 1



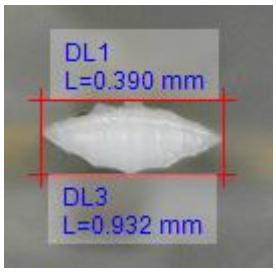
Cross-section Yarn 2



Cross-section Yarn 3



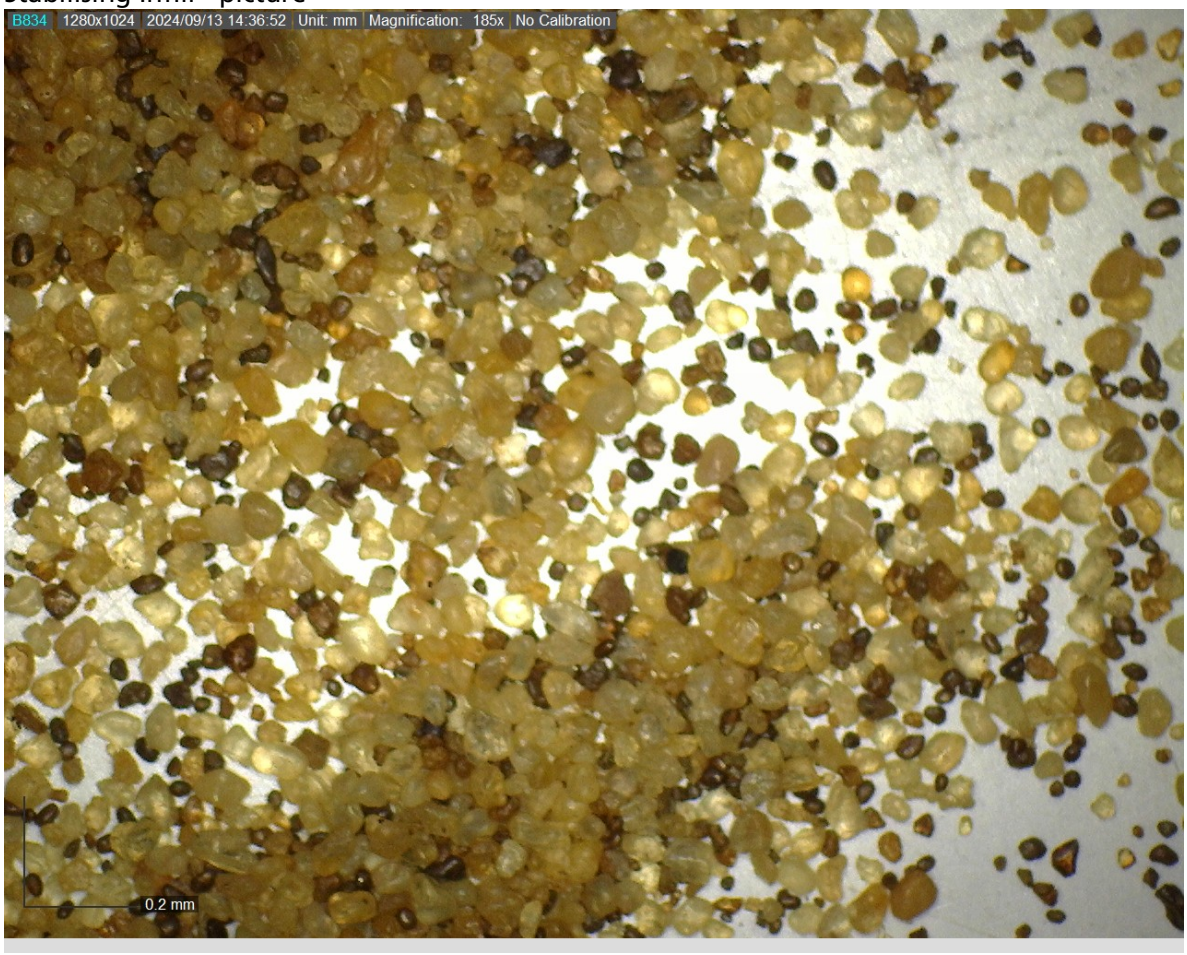
Cross-section Yarn 4



Cross-section Yarn 5



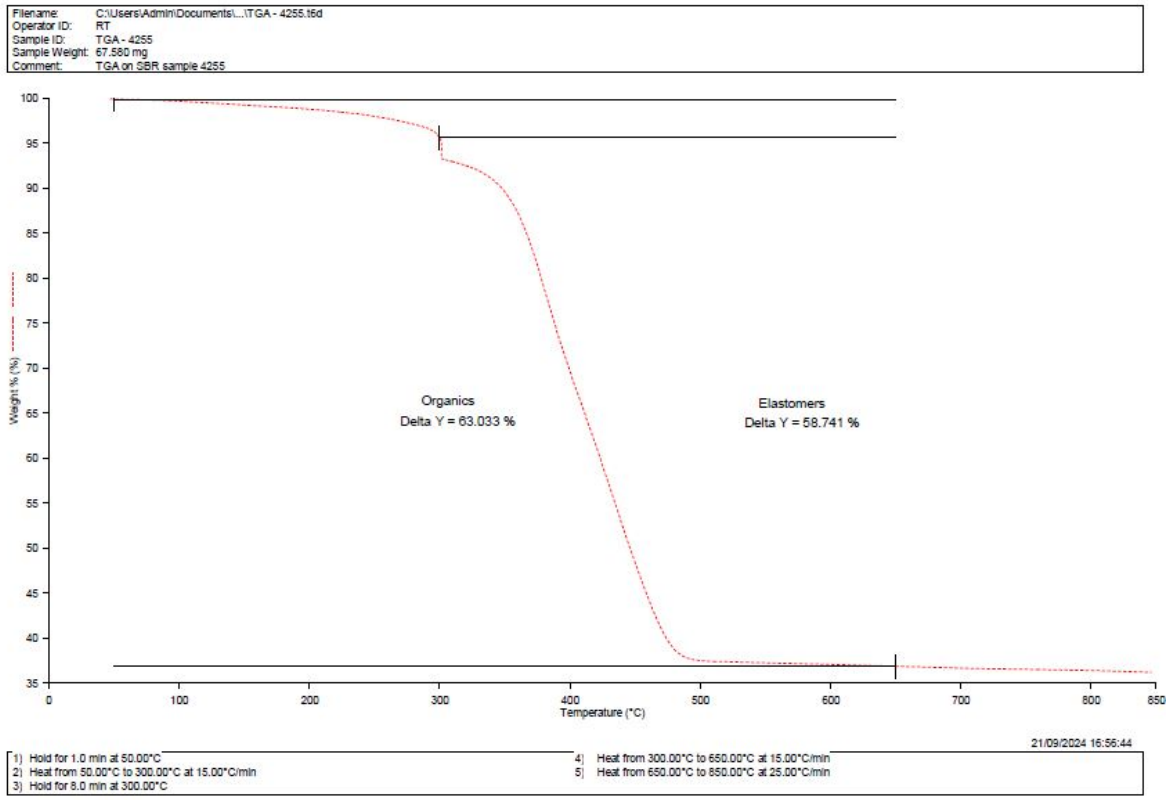
Stabilising Infill - picture



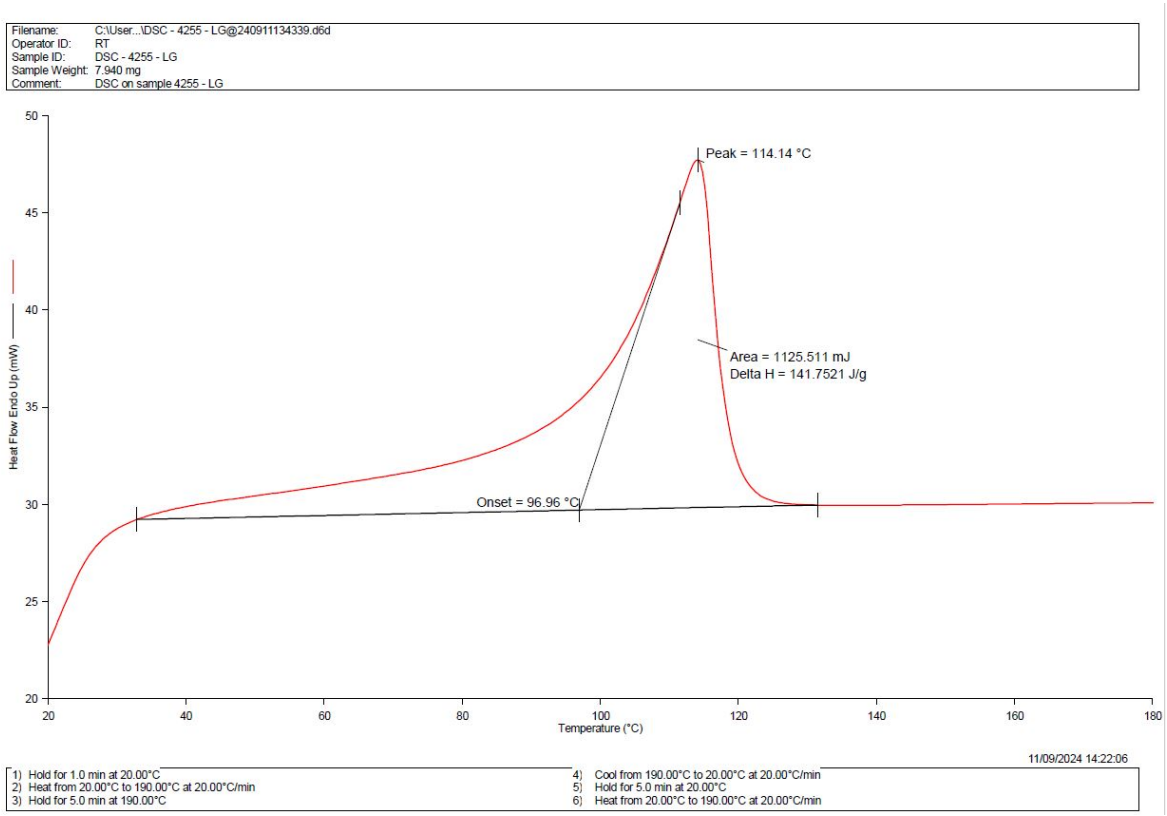
Performance Infill - picture



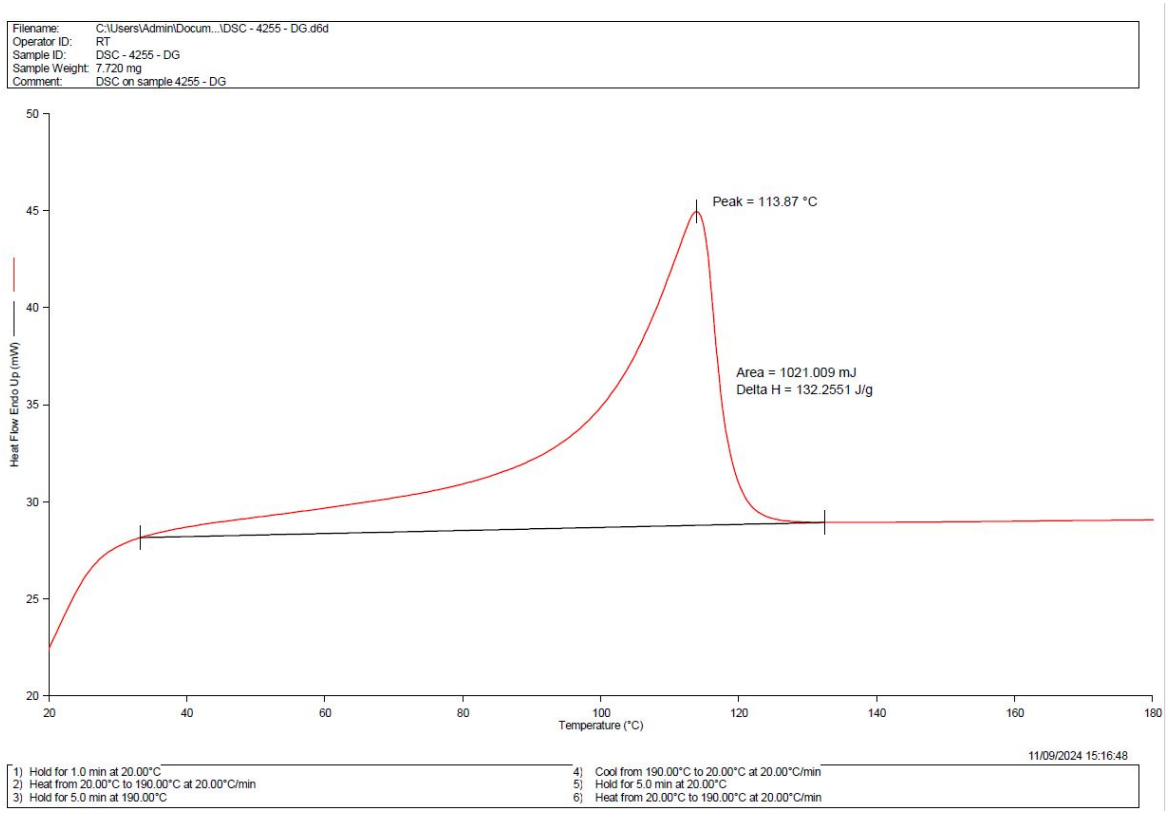
TGA of performance infill



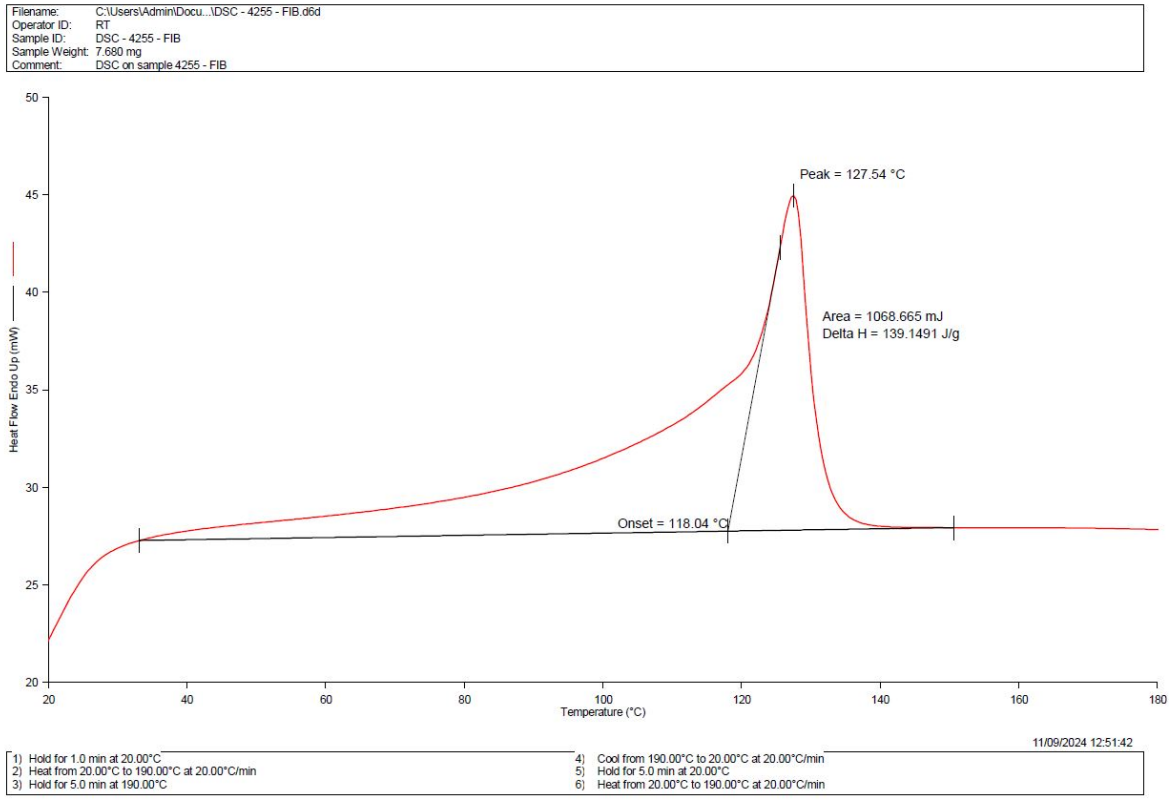
Yarn Characteristics DSC



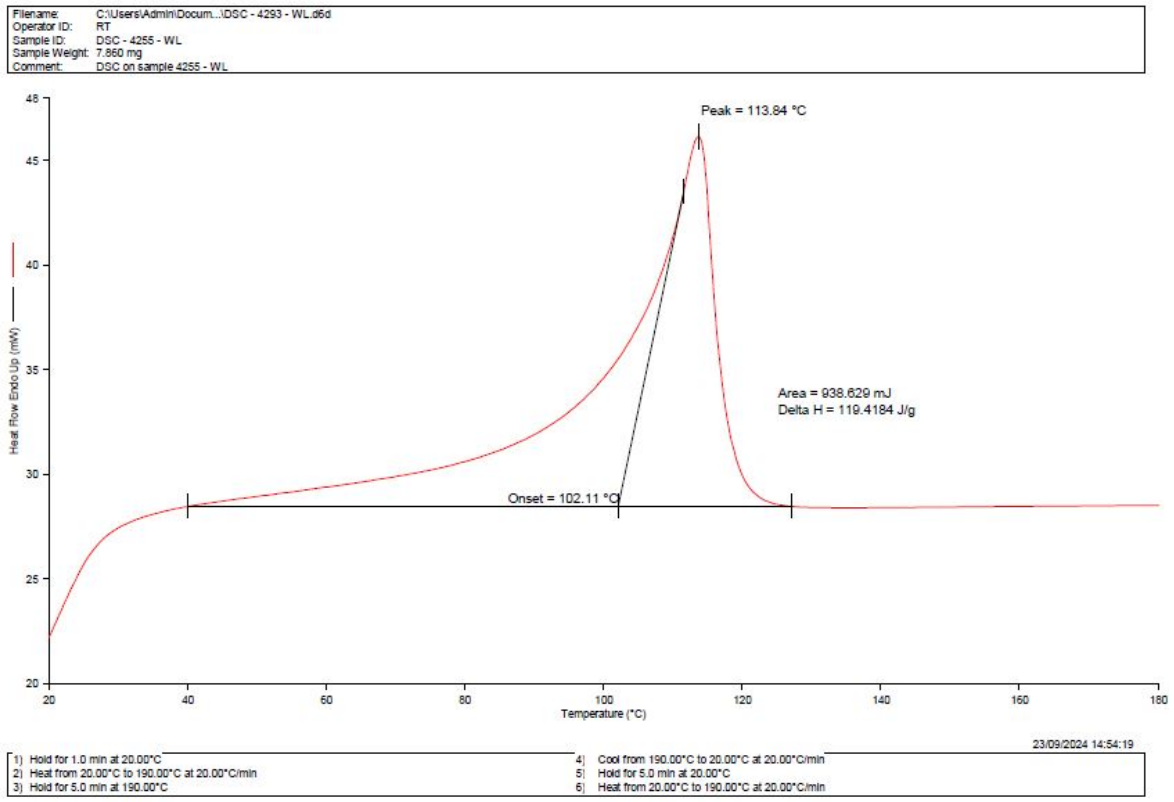
Yarn Characteristics DSC - 2



Yarn Characteristics DSC - 3



Yarn Characteristics DSC - 4



Yarn Characteristics DSC - 5

