



EC Declaration of Performance

John Gunn & Sons Ltd
Bower Quarry, Halkirk, Caithness KW12 6UY

13
Certificate No. 0086-CPR-599189

EN 13108-1 [Asphalt Concrete for roads and other trafficked areas] Annex ZA
AC 4 fine surf [PD 6691:2015+A1:2016 Table B.15]
ACP Titan 1000 Asphalt Plant
Mix Code: 5

Mix Grading (% Passing)	Sieve	Recent Mean	Target	Spec. Range
	6,3mm	100	100	98 – 100
	4mm	98	98	90 – 100
	2mm	74	74	68 – 80
	0,250mm	24	24	20 – 28
	0,063mm	7,0	7	5,0 – 9,0
Binder Content (%)		6,5	6,5	6,0 – 7,0
Temperature of the mixture (°C)		70/100 Pen 100/150 Pen 160/220 Pen		150 – 180 140 – 170 140 – 170
Void Content				
- maximum				V _{max} NR
- minimum				V _{min} NR
Water Sensitivity				ITSR NR
Resistance to abrasion to studded tyres				ABR NR
Stiffness				
- maximum				S _{min} NR
- minimum				S _{max} NR
Resistance to permanent deformation				f _{cmax} NR
Course & Fine Aggregate :		Crushed Rock ex Bower Quarry Aggregate Plant		
Filler :		Reclaimed ex Bower Quarry Asphalt Plant		

CE Certificate of Conformity with EN 13108-1:2016 available on request.

Signed :

David D. Sutherland, Director

Valid From : 01/04/2019

Issued : 01/05/2019



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Certificate No. 0086-CPR-599189

EN 13108-1 [Asphalt Concrete for roads and other trafficked areas] Annex ZA
AC 6 med surf [PD 6691:2015+A1:2016 Table B.15]
ACP Titan 1000 Asphalt Plant
Mix Code: 1

Mix Grading (% Passing)	Sieve	Recent Mean	Target	Spec. Range
	10mm	100	100	98 – 100
	6,3mm	97	98	90 – 100
	2mm	34	35	29 – 41
	1mm	22	24	20 – 28
	0,063mm	5,5	5	3,0 – 7,0
Binder Content (%)		5,5	5,4	4,9 – 5,9
Temperature of the mixture (°C)		70/100 Pen 100/150 Pen 160/220 Pen		150 – 180 140 – 170 140 – 170
Void Content				
- maximum				V _{max} NR
- minimum				V _{min} NR
Water Sensitivity				ITSR NR
Resistance to abrasion to studded tyres				ABR NR
Stiffness				
- maximum				S _{min} NR
- minimum				S _{max} NR
Resistance to permanent deformation				f _{cmax} NR
Course & Fine Aggregate :		Crushed Rock ex Bower Quarry Aggregate Plant		
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EN 13108-1 [Asphalt Concrete for roads and other trafficked areas] Annex ZA
AC 10 open surf [PD 6691:2015+A1:2016 Table B.13]
ACP Titan 1000 Asphalt Plant
Mix Code: 24

Mix Grading (% Passing)	Sieve	Recent Mean	Target	Spec. Range
	14mm		100	98 – 100
	10mm		94	86 - 99
	6,3mm		53	46 - 60
	2mm		16	10 – 22
	0,063mm		5	3,0 – 7,0
Binder Content (%)			5,2	4,7 – 5,7
Temperature of the mixture (°C)		160/220 Pen		140 – 170
Void Content				
- maximum				V _{max} NR
- minimum				V _{min} NR
Water Sensitivity				ITSR NR
Resistance to abrasion to studded tyres				ABR NR
Stiffness				
- maximum				S _{min} NR
- minimum				S _{max} NR
Resistance to permanent deformation				f _{cmax} NR
Course & Fine Aggregate :		Crushed Rock ex Bower Quarry Aggregate Plant		
Filler :		Reclaimed ex Bower Quarry Asphalt Plant		

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EN 13108-1 [Asphalt Concrete for roads and other trafficked areas] Annex ZA
AC 14 open surf [PD 6691:2015+A1:2016 Table B.13]
ACP Titan 1000 Asphalt Plant
Mix Code: 32

Mix Grading (% Passing)	Sieve	Recent Mean	Target	Spec. Range
	20mm	100	100	98 - 100
	14mm	98	98	90 - 100
	10mm	70	67	60 - 73
	6,3mm	34	35	28 - 42
	2mm	17	17	11 - 23
	0,063mm	4,7	5	3,0 - 7,0
Binder Content (%)		4,7	4,7	4,2 - 5,2
Temperature of the mixture (°C)		160/220 Pen		140 - 170
Void Content				
- maximum				V _{max} NR
- minimum				V _{min} NR
Water Sensitivity				ITSR NR
Resistance to abrasion to studded tyres				ABR NR
Stiffness				
- maximum				S _{min} NR
- minimum				S _{max} NR
Resistance to permanent deformation				f _{cmax} NR
Course & Fine Aggregate :	Crushed Rock ex Bower Quarry Aggregate Plant			
Filler :	Reclaimed ex Bower Quarry Asphalt Plant			

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EN 13108-1 [Asphalt Concrete for roads and other trafficked areas] Annex ZA
AC 20 dense bin [PD 6691:2015+A1:2016 Table B.11]
ACP Titan 1000 Asphalt Plant
Mix Code: 2

Mix Grading (% Passing)	Sieve	Recent Mean	Target	Spec. Range
	31,5mm	100	100	98 - 100
	20mm	98	99	90 - 100
	10mm	59	62	53 - 71
	6,3mm	46	47	38 - 56
	2mm	28	29	22 - 36
	0,250mm	10	11	6 - 16
	0,063mm	6,2	6	3,0 - 9,0

Binder Content (%) 4,7 4,6 4,0 - 5,2

Temperature of the mixture (°C) 40/60 Pen 160 - 190
100/150 Pen 130 - 170
160/220 Pen 130 - 170

Void Content

- maximum

V_{max} NR

- minimum

V_{min} NR

Water Sensitivity

ITSR NR

Resistance to abrasion to studded tyres

ABR NR

Stiffness

- maximum

S_{min} NR

- minimum

S_{max} NR

Resistance to permanent deformation

f_{cmax} NR

Course & Fine Aggregate :

Crushed Rock ex Bower Quarry Aggregate Plant

Filler :

Reclaimed ex Bower Quarry Asphalt Plant

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EN 13108-1 [Asphalt Concrete for roads and other trafficked areas] Annex ZA
AC 20 HDM bin [PD 6691:2015+A1:2016 Table B.11]
ACP Titan 1000 Asphalt Plant
Mix Code: 18

Mix Grading (% Passing)	Sieve	Recent Mean	Target	Spec. Range
	31,5mm	100	100	98 - 100
	20mm	98	99	90 - 100
	10mm	60	62	53 - 71
	6,3mm	46	47	38 - 56
	2mm	31	29	22 - 36
	0,250mm	14	11	7 - 17
	0,063mm	9,0	8	5,0 - 11,0
Binder Content (%)		4,7	4,6	4,0 - 5,2
Temperature of the mixture (°C)		40/60 Pen		160 - 190
Void Content				
- maximum				V _{max} NR
- minimum				V _{min} NR
Water Sensitivity				ITSR NR
Resistance to abrasion to studded tyres				ABR NR
Stiffness				
- maximum				S _{min} NR
- minimum				S _{max} NR
Resistance to permanent deformation				f _{cmax} NR
Course & Fine Aggregate :		Crushed Rock ex Bower Quarry Aggregate Plant		
Filler :		Reclaimed ex Bower Quarry Asphalt Plant Imported ex Highland Lime Co.		

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EN 13108-1 [Asphalt Concrete for roads and other trafficked areas] Annex ZA
AC 32 HDM base [PD 6691:2015+A1:2016 Table B.11]
ACP Titan 1000 Asphalt Plant
Mix Code: 17

Mix Grading (% Passing)	Sieve	Recent Mean	Target	Spec. Range
	40mm	100	100	98 - 100
	31,5mm	100	99	90 - 100
	20mm	84	83	74 - 92
	6,3mm	47	47	38 - 56
	2mm	32	29	22 - 36
	0,250mm	14	13	8 - 18
	0,063mm	9,0	8	5,0 - 11,0
Binder Content (%)		4,2	3,9	3,3 - 4,5
Temperature of the mixture (°C)		40/60 Pen		160 - 190
Void Content				
- maximum				V _{max} NR
- minimum				V _{min} NR
Water Sensitivity				ITSR NR
Resistance to abrasion to studded tyres				ABR NR
Stiffness				
- maximum				S _{min} NR
- minimum				S _{max} NR
Resistance to permanent deformation				f _{max} NR
Course & Fine Aggregate :		Crushed Rock ex Bower Quarry Aggregate Plant		
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