



0120



**FP McCann Ltd  
Knockloughrim Quarry  
3 Drumard Road  
Knockloughrim  
Magherafelt  
Co Londonderry  
BT45 8QA**

**10**

0120 - SGS - GB10/81857

**EN13108 - 4**

**Hot Rolled Asphalt for roads and other trafficked areas**

**14/20 Precoated chippings 40/60**

**Mallusk Depot - Gencor Titan 2000**

**General requirements + empirical requirements**

Void Content (EN13108-8 Procedure B:SSD)

- Maximum

$V_{max NR}$  (NR)

- Minimum

$V_{min NR}$  (NR)

Minimum voids filled with bitumen

$VFB_{min NR}$  (NR)

Maximum voids filled with bitumen

$VFB_{max NR}$  (NR)

Void in mineral aggregate

$VMA_{max NR}$  (NR)

Void content after 10 gyrations

$V10G_{min NR}$  (NR)

Water sensitivity (EN12697-12)

$ITSR_{NR}$  (NR)

Resistance to abrasion by studded tyres (EN12697-16, method A)

$Abr_{NR}$  (NR)

Reaction to fire

Euroclass (NR)

Temperature of the mix

130°C to 190°C

Grading (Passing)

31,5mm Sieve

100%

20mm Sieve

95%

14mm Sieve

9%

10mm Sieve

1%

0,063mm Sieve

1%

Binder Content

$B_{min 1,5}$  (1,5%)

Resistance to permanent deformation

- Large Device: Proportional Rut Depth (EN 12697-22, Large device, in Air)

$P_{NR}$  (NR)

- Small Device: Wheel Tracking Slope (EN 12697-22, Small device, method B, in Air)

$WTS_{Air NR}$  (NR)

- Small Device: Proportional Rut Depth (EN 12697-22, Small device, method B, in Air)

$PRD_{Air NR}$  (NR)



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0120 - SGS - GB10/81857

**EN13108 - 4**

**Hot Rolled Asphalt for roads and other trafficked areas**

**14/20 Precoated chippings 40/60 65 PSV**

**Mallusk Depot - Gencor Titan 2000**

**General requirements + empirical requirements**

Void Content (EN13108-8 Procedure B:SSD)

- Maximum

$V_{max NR}$  (NR)

- Minimum

$V_{min NR}$  (NR)

Minimum voids filled with bitumen

$VFB_{min NR}$  (NR)

Maximum voids filled with bitumen

$VFB_{max NR}$  (NR)

Void in mineral aggregate

$VMA_{max NR}$  (NR)

Void content after 10 gyrations

$V10G_{min NR}$  (NR)

Water sensitivity (EN12697-12)

$ITSR_{NR}$  (NR)

Resistance to abrasion by studded tyres (EN12697-16, method A)

$Abr_{NR}$  (NR)

Reaction to fire

Euroclass (NR)

Temperature of the mix

130°C to 190°C

Grading (Passing)

31,5mm Sieve

100%

20mm Sieve

95%

14mm Sieve

12%

10mm Sieve

1%

0,063mm Sieve

1%

Binder Content

$B_{min 1,5}$  (1,5%)

Resistance to permanent deformation

- Large Device: Proportional Rut Depth (EN 12697-22, Large device, in Air)

$P_{NR}$  (NR)

- Small Device: Wheel Tracking Slope (EN 12697-22, Small device, method B, in Air)

$WTS_{Air NR}$  (NR)

- Small Device: Proportional Rut Depth (EN 12697-22, Small device, method B, in Air)

$PRD_{Air NR}$  (NR)



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0120 - SGS - GB10/81857

**EN13108 - 4  
Hot Rolled Asphalt for roads and other trafficked areas  
HRA 15% 0/10 F surf 40/60 1B  
Mallusk Depot - Gencor Titan 2000**

**General requirements + empirical requirements**

Void Content (EN13108-8 Procedure B:SSD)

- Maximum

$V_{max NR}$  (NR)

- Minimum

$V_{min NR}$  (NR)

Minimum voids filled with bitumen

$VFB_{min NR}$  (NR)

Maximum voids filled with bitumen

$VFB_{max NR}$  (NR)

Void in mineral aggregate

$VMA_{max NR}$  (NR)

Void content after 10 gyrations

$V10G_{min NR}$  (NR)

Water sensitivity (EN12697-12)

$ITSR_{NR}$  (NR)

Resistance to abrasion by studded tyres (EN12697-16, method A)

$Abr_{NR}$  (NR)

Reaction to fire

Euroclass (NR)

Temperature of the mix

130°C to 190°C

Grading (Passing)

14mm Sieve

100%

10mm Sieve

100%

6,3mm Sieve

86%

2mm Sieve

79%

0,5mm Sieve

76%

0,250mm Sieve

58%

0,063mm Sieve

12%

Binder Content

$B_{min 10,1}$  (9,4%)

Resistance to permanent deformation

- Large Device: Proportional Rut Depth (EN 12697-22, Large device, in Air)

$P_{NR}$  (NR)

- Small Device: Wheel Tracking Slope (EN 12697-22, Small device, method B, in Air)

$WTS_{Air NR}$  (NR)

- Small Device: Proportional Rut Depth (EN 12697-22, Small device, method B, in Air)

$PRD_{Air NR}$  (NR)



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0120 - SGS - GB10/81857

**EN13108 - 4  
Hot Rolled Asphalt for roads and other trafficked areas  
HRA 30% 0/10 F surf 40/60 1B  
Mallusk Depot - Gencor Titan 2000**

**General requirements + empirical requirements**

Void Content (EN13108-8 Procedure B:SSD)

- Maximum

$V_{max NR}$  (NR)

- Minimum

$V_{min NR}$  (NR)

Minimum voids filled with bitumen

$VFB_{min NR}$  (NR)

Maximum voids filled with bitumen

$VFB_{max NR}$  (NR)

Void in mineral aggregate

$VMA_{max NR}$  (NR)

Void content after 10 gyrations

$V10G_{min NR}$  (NR)

Water sensitivity (EN12697-12)

$ITSR_{NR}$  (NR)

Resistance to abrasion by studded tyres (EN12697-16, method A)

$Abr_{NR}$  (NR)

Reaction to fire

Euroclass (NR)

Temperature of the mix

130°C to 190°C

Grading (Passing)

14mm Sieve

100%

10mm Sieve

98%

6,3mm Sieve

73%

2mm Sieve

65%

0,5mm Sieve

58%

0,250mm Sieve

46%

0,063mm Sieve

9%

Binder Content

$B_{min 8,6}$  (8,2%)

Resistance to permanent deformation

- Large Device: Proportional Rut Depth (EN 12697-22, Large device, in Air)

$P_{NR}$  (NR)

- Small Device: Wheel Tracking Slope (EN 12697-22, Small device, method B, in Air)

$WTS_{Air NR}$  (NR)

- Small Device: Proportional Rut Depth (EN 12697-22, Small device, method B, in Air)

$PRD_{Air NR}$  (NR)



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HRA 30% 0/14 F surf 40/60 1B  
Mallusk Depot - Gencor Titan 2000**

**General requirements + empirical requirements**

Void Content (EN13108-8 Procedure B:SSD)

- Maximum

$V_{max NR}$  (NR)

- Minimum

$V_{min NR}$  (NR)

Minimum voids filled with bitumen

$VFB_{min NR}$  (NR)

Maximum voids filled with bitumen

$VFB_{max NR}$  (NR)

Void in mineral aggregate

$VMA_{max NR}$  (NR)

Void content after 10 gyrations

$V10G_{min NR}$  (NR)

Water sensitivity (EN12697-12)

$ITSR_{NR}$  (NR)

Resistance to abrasion by studded tyres (EN12697-16, method A)

$Abr_{NR}$  (NR)

Reaction to fire

Euroclass (NR)

Temperature of the mix

130°C to 190°C

Grading (Passing)

20mm Sieve

100%

14mm Sieve

98%

10mm Sieve

75%

2mm Sieve

65%

0,5mm Sieve

59%

0,250mm Sieve

47%

0,063mm Sieve

9%

Binder Content

$B_{min 8,6}$  (8,2%)

Resistance to permanent deformation

- Large Device: Proportional Rut Depth (EN 12697-22, Large device, in Air)

$P_{NR}$  (NR)

- Small Device: Wheel Tracking Slope (EN 12697-22, Small device, method B, in Air)

$WTS_{Air NR}$  (NR)

- Small Device: Proportional Rut Depth (EN 12697-22, Small device, method B, in Air)

$PRD_{Air NR}$  (NR)



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**EN13108 - 4  
Hot Rolled Asphalt for roads and other trafficked areas  
HRA 35% 0/14 F surf 40/60 1B  
Mallusk Depot - Gencor Titan 2000**

**General requirements + empirical requirements**

Void Content (EN13108-8 Procedure B:SSD)

- Maximum
- Minimum

$V_{max NR}$  (NR)

$V_{min NR}$  (NR)

Minimum voids filled with bitumen

$VFB_{min NR}$  (NR)

Maximum voids filled with bitumen

$VFB_{max NR}$  (NR)

Void in mineral aggregate

$VMA_{max NR}$  (NR)

Void content after 10 gyrations

$V10G_{min NR}$  (NR)

Water sensitivity (EN12697-12)

$ITSR_{NR}$  (NR)

Resistance to abrasion by studded tyres (EN12697-16, method A)

$Abr_{NR}$  (NR)

Reaction to fire

Euroclass (NR)

Temperature of the mix

130°C to 190°C

Grading (Passing)

20mm Sieve

100%

14mm Sieve

99%

10mm Sieve

70%

2mm Sieve

61%

0,5mm Sieve

55%

0,250mm Sieve

44%

0,063mm Sieve

8%

Binder Content

$B_{min 8}$  (7,8%)

Resistance to permanent deformation

- Large Device: Proportional Rut Depth (EN 12697-22, Large device, in Air)

$P_{NR}$  (NR)

- Small Device: Wheel Tracking Slope (EN 12697-22, Small device, method B, in Air)

$WTS_{Air NR}$  (NR)

- Small Device: Proportional Rut Depth (EN 12697-22, Small device, method B, in Air)

$PRD_{Air NR}$  (NR)



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**EN13108 - 4  
Hot Rolled Asphalt for roads and other trafficked areas  
HRA 50% 0/10 F bin 40/60  
Mallusk Depot - Gencor Titan 2000**

**General requirements + empirical requirements**

Void Content (EN13108-8 Procedure B:SSD)

- Maximum

$V_{\max \text{ NR}}$  (NR)

- Minimum

$V_{\min \text{ NR}}$  (NR)

Minimum voids filled with bitumen

$\text{VFB}_{\min \text{ NR}}$  (NR)

Maximum voids filled with bitumen

$\text{VFB}_{\max \text{ NR}}$  (NR)

Void in mineral aggregate

$\text{VMA}_{\max \text{ NR}}$  (NR)

Void content after 10 gyrations

$\text{V10G}_{\min \text{ NR}}$  (NR)

Water sensitivity (EN12697-12)

$\text{ITSR}_{\text{NR}}$  (NR)

Resistance to abrasion by studded tyres (EN12697-16, method A)

$\text{Abr}_{\text{NR}}$  (NR)

Reaction to fire

Euroclass (NR)

Temperature of the mix

130°C to 190°C

Grading (Passing)

14mm Sieve

100%

10mm Sieve

98%

2mm Sieve

40%

0,5mm Sieve

30%

0,250mm Sieve

19%

0,063mm Sieve

3%

Binder Content

$B_{\min 5,8}$  (6,4%)

Resistance to permanent deformation

- Large Device: Proportional Rut Depth (EN 12697-22, Large device, in Air)

$P_{\text{NR}}$  (NR)

- Small Device: Wheel Tracking Slope (EN 12697-22, Small device, method B, in Air)

$\text{WTS}_{\text{Air NR}}$  (NR)

- Small Device: Proportional Rut Depth (EN 12697-22, Small device, method B, in Air)

$\text{PRD}_{\text{Air NR}}$  (NR)



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**EN13108 - 4  
Hot Rolled Asphalt for roads and other trafficked areas  
HRA 50% 14 F bin 40/60  
Mallusk Depot - Gencor Titan 2000**

**General requirements + empirical requirements**

Void Content (EN13108-8 Procedure B:SSD)

- Maximum
- Minimum

$V_{max NR}$  (NR)

$V_{min NR}$  (NR)

Minimum voids filled with bitumen

$VFB_{min NR}$  (NR)

Maximum voids filled with bitumen

$VFB_{max NR}$  (NR)

Void in mineral aggregate

$VMA_{max NR}$  (NR)

Void content after 10 gyrations

$V10G_{min NR}$  (NR)

Water sensitivity (EN12697-12)

$ITSR_{NR}$  (NR)

Resistance to abrasion by studded tyres (EN12697-16, method A)

$Abr_{NR}$  (NR)

Reaction to fire

Euroclass (NR)

Temperature of the mix

130°C to 190°C

Grading (Passing)

20mm Sieve

100%

14mm Sieve

99%

10mm Sieve

80%

2mm Sieve

44%

0,5mm Sieve

36%

0,250mm Sieve

29%

0,063mm Sieve

5%

Binder Content

$B_{min 5,8}$  (6,4%)

Resistance to permanent deformation

- Large Device: Proportional Rut Depth (EN 12697-22, Large device, in Air)

$P_{NR}$  (NR)

- Small Device: Wheel Tracking Slope (EN 12697-22, Small device, method B, in Air)

$WTS_{Air NR}$  (NR)

- Small Device: Proportional Rut Depth (EN 12697-22, Small device, method B, in Air)

$PRD_{Air NR}$  (NR)





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**EN13108 - 4  
Hot Rolled Asphalt for roads and other trafficked areas  
HRA 60% 20 F bin 40/60  
Mallusk Depot - Gencor Titan 2000**

**General requirements + empirical requirements**

Void Content (EN13108-8 Procedure B:SSD)

- Maximum
- Minimum

$V_{max NR}$  (NR)

$V_{min NR}$  (NR)

Minimum voids filled with bitumen

$VFB_{min NR}$  (NR)

Maximum voids filled with bitumen

$VFB_{max NR}$  (NR)

Void in mineral aggregate

$VMA_{max NR}$  (NR)

Void content after 10 gyrations

$V10G_{min NR}$  (NR)

Water sensitivity (EN12697-12)

$ITSR_{NR}$  (NR)

Resistance to abrasion by studded tyres (EN12697-16, method A)

$Abr_{NR}$  (NR)

Reaction to fire

Euroclass (NR)

Temperature of the mix

130°C to 190°C

Grading (Passing)

31,5mm Sieve

100%

20mm Sieve

100%

14mm Sieve

50%

2mm Sieve

37%

0,5mm Sieve

25%

0,250mm Sieve

17%

0,063mm Sieve

4%

Binder Content

$B_{min 5,0}$  (5,6%)

Resistance to permanent deformation

- Large Device: Proportional Rut Depth (EN 12697-22, Large device, in Air)

$P_{NR}$  (NR)

- Small Device: Wheel Tracking Slope (EN 12697-22, Small device, method B, in Air)

$WTS_{Air NR}$  (NR)

- Small Device: Proportional Rut Depth (EN 12697-22, Small device, method B, in Air)

$PRD_{Air NR}$  (NR)