



0120

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

10

0120 - SGS - GB10/81856

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

82%

2mm Sieve

79%

0,5mm Sieve

74%

0,250mm Sieve

61%

0,063mm Sieve

12%

Binder Content

$B_{min 10}$ (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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**EN13108 - 4
Hot Rolled Asphalt for roads and other trafficked areas
HRA 30% 0/14 F surf 40/60 1B
Knockloughrim 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

96%

10mm Sieve

71%

2mm Sieve

65%

0,5mm Sieve

56%

0,250mm Sieve

50%

0,063mm Sieve

9%

Binder Content

$B_{\min 8,4}$ (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

Knockloughrim 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)

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

96%

10mm Sieve

69%

2mm Sieve

61%

0,5mm Sieve

55%

0,250mm Sieve

41%

0,063mm Sieve

8%

Binder Content

$\text{B}_{\min 8}$ (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)

$\text{WTS}_{\text{Air NR}}$ (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% 0/10 F bin 40/60
Knockloughrim 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%

2mm Sieve

43%

0,5mm Sieve

30%

0,250mm Sieve

24%

0,063mm Sieve

4%

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
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HRA 50% 0/14 F bin 40/60
Knockloughrim 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

78%

2mm Sieve

43%

0,5mm Sieve

30%

0,250mm Sieve

25%

0,063mm Sieve

4%

Binder Content

$B_{min 6,0}$ (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% 0/20 F bin 40/60
Knockloughrim 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

100%

14mm Sieve

53%

2mm Sieve

37%

0,5mm Sieve

24%

0,250mm Sieve

18%

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)