



0120

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

10

0120 - SGS - GB10/81857

**EN13108 - 1
Asphalt Concrete for roads and other trafficked areas
AC 06 dense surf 100/150
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)

10mm Sieve

100%

6,3mm Sieve

98%

2mm Sieve

46%

1,0mm Sieve

25%

0,063mm Sieve

4%

Binder Content

$B_{min 5,6}$ (6,3%)

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 - 1
Asphalt Concrete for roads and other trafficked areas
AC 06 med surf 160/220
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 170°C

Grading (Passing)

10mm Sieve

100%

6,3mm Sieve

98%

2mm Sieve

33%

1,0mm Sieve

20%

0,063mm Sieve

6%

Binder Content

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

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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EN13108 - 1

Asphalt Concrete for roads and other trafficked areas

AC 10 Close Surf 100/150

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

62%

2,0mm Sieve

25%

1,0mm Sieve

14%

0,063mm Sieve

6,0%

Binder Content

$B_{min 4,6}$ (5,3%)

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 - 1

Asphalt Concrete for roads and other trafficked areas

AC 10 Open Surf 160/220

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 170°C

Grading (Passing)

14mm Sieve

100%

10mm Sieve

93%

6,3mm Sieve

50%

2,0mm Sieve

16%

0,063mm Sieve

5%

Binder Content

$B_{min 4,6}$ (5,3%)

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 - 1
Asphalt Concrete for roads and other trafficked areas
AC 14 Close Surf 100/150
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

100%

10mm Sieve

83%

6,3mm Sieve

55%

2,0mm Sieve

26%

1,0mm Sieve

17%

0,063mm Sieve

6,0%

Binder Content

$B_{min 4,4}$ (5,1%)

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 - 1
Asphalt Concrete for roads and other trafficked areas
AC 14 Open Surf 160/220
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 170°C

Grading (Passing)

20mm Sieve

100%

14mm Sieve

98%

10mm Sieve

65%

6,3mm Sieve

34%

2,0mm Sieve

16%

0,063mm Sieve

5%

Binder Content

$B_{min 4,2}$ (4,8%)

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 - 1
Asphalt Concrete for roads and other trafficked areas
AC 20 Dense Bin 100/150
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

99%

10mm Sieve

61%

6,3mm Sieve

47%

2,0mm Sieve

27%

0,250mm Sieve

11%

0,063mm Sieve

6,0%

Binder Content

$B_{min 4,2}$ (4,7%)

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 - 1
Asphalt Concrete for roads and other trafficked areas
AC 20 Dense Bin 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

99%

10mm Sieve

61%

6,3mm Sieve

47%

2,0mm Sieve

27%

0,250mm Sieve

11%

0,063mm Sieve

6,0%

Binder Content

$B_{min 4,2}$ (4,7%)

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 - 1
Asphalt Concrete for roads and other trafficked areas
AC 20 HDM Bin 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

99%

10mm Sieve

61%

6,3mm Sieve

47%

2,0mm Sieve

27%

0,250mm Sieve

11%

0,063mm Sieve

8%

Binder Content

$B_{min 4,2}$ (4,7%)

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 - 1
Asphalt Concrete for roads and other trafficked areas
AC 20 Open Bin 160/220
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 170°C

Grading (Passing)

31,5mm Sieve

100%

20mm Sieve

99%

14mm Sieve

65%

6,3mm Sieve

26%

2,0mm Sieve

13%

0,063mm Sieve

4%

Binder Content

$B_{min 3,4}$ (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 - 1

Asphalt Concrete for roads and other trafficked areas

AC 32 Dense Base 100/150

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)

40mm Sieve

100%

31,5mm Sieve

99%

20mm Sieve

84%

6,3mm Sieve

52%

2,0mm Sieve

30%

0,250mm Sieve

14%

0,063mm Sieve

6,0%

Binder Content

$B_{min 3,4}$ (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 - 1

Asphalt Concrete for roads and other trafficked areas

AC 32 Dense Base 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)

40mm Sieve

100%

31,5mm Sieve

99%

20mm Sieve

84%

6,3mm Sieve

52%

2,0mm Sieve

30%

0,250mm Sieve

14%

0,063mm Sieve

6,0%

Binder Content

$B_{min 3,4}$ (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 - 1

Asphalt Concrete for roads and other trafficked areas

AC 32 HDM Base 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

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

Maximum voids filled with bitumen

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

Void in mineral aggregate

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

Void content after 10 gyrations

$V_{10G_{\min \text{ NR}}}$ (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)

40mm Sieve

100%

31,5mm Sieve

99%

20mm Sieve

84%

6,3mm Sieve

52%

2,0mm Sieve

30%

0,250mm Sieve

14%

0,063mm Sieve

8%

Binder Content

$B_{\min 3,4}$ (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)

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

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

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