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MATERIAL SPECIFICATION FOR HOT-APPLIED RUBBERIZED ASPHALT WATERPROOFING MEMBRANE

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This specification covers the material requirements for hot-applied rubberized asphalt (HRA) waterproofing membrane for structures.

1213.02 REFERENCES

1213.01

This specification refers to the following standards, specifications, or publications:

Ontario Provincial Standard Specifications, Construction:

SCOPE

OPSS 914 Waterproofing Bridge Decks and Culverts with Hot-Applied Rubberized Asphalt Waterproofing Membrane

Ontario Ministry of Transportation Publications:

Laboratory Testing Manual:

| LS-350 | Low Temperature Flexibility of Hot-Applied Rubberized Asphalt Waterproofing Membrane | | | | |
|--------|---|--|--|--|--|
| LS-351 | Cone Penetration and Relative Density of Hot-Applied Rubberized Asphalt Waterproofing | | | | |
| | Membrane | | | | |
| LS-352 | Flow of Hot-Applied Rubberized Asphalt Waterproofing Membrane | | | | |
| LS-353 | Toughness and Ratio of Toughness to Peak Force and Adhesion of Hot-Applied Rubberized Asphalt | | | | |
| | Waterproofing Membrane | | | | |

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1213.03 DEFINITIONS

For the purpose of this specification, the following definitions apply:

Hot-Applied Rubberized Asphalt (HRA) Waterproofing Membrane means as defined in OPSS 914.

1213.05 MATERIALS

1213.05.01 HRA Waterproofing Membrane

The HRA waterproofing membrane, including oven aged samples, shall be according to Table 1.

1213.08 QUALITY ASSURANCE

1213.08.01 Sampling and Lot Size

Sampling and lot size for the HRA waterproofing membrane shall be according to OPSS 914.

1213.08.02 Acceptance of HRA Waterproofing Membrane

The HRA waterproofing membrane shall be considered acceptable when all the properties listed above meet the acceptance values specified in Table 1.

Unacceptable HRA waterproofing membrane shall be subject to removal and replacement.

TABLE 1
HRA Waterproofing Membrane Properties - Acceptance Values

| Test | Test Number | Acceptance Value |
|---------------------------------------|-------------|---|
| Low Temperature Flexibility at -25 °C | LS-350 | Pass according to the requirements in LS-350 (no breaks or cracks). |
| Cone Penetration at 25 °C | LS-351 | Max. 110 (0.1 mm) |
| Cone Penetration at 50 °C | LS-351 | Max. 140 (0.1 mm) |
| Flow at 60 °C | LS-352 | Max. 3 mm |
| Toughness | LS-353 | Min. 5.5 joules |
| Toughness/Peak Force | LS-353 | Min. 0.040 joules/newton |
| Adhesion | LS-353 | A minimum of 2 of the 3 samples shall pass according to the requirements in LS-353. |
| Relative Density | LS-351 | For Information |
| Heat Stability | LS-354 | Pass all tests |

