

Product Evaluation

RE: Review of 3M 380AW All Weather tape

PRODUCT

3M 380AW All Weather tape is a durable road marking tape manufactured and distributed in Alberta by 3M Canada Company located in London, Ontario. Website: <https://www.3mcanada.ca>

VENDOR CLAIMS AND INFORMATION

CLAIMS

3M 380AW All Weather tape Helps provide excellent retro-reflectivity in both dry and rainy conditions, with a combination of 3M's 2.4 and 1.9 index optics, providing you all-weather performance. The high-profile diamond pattern aids in water dispersion, helping to improve wet recovery. It is ideal for permanent long line applications on high-traffic roadways.

DESCRIPTION

3M 380AW All Weather tapes are built to last with abrasion-resistant microcrystalline ceramic beads bonded in a highly durable polyurethane topcoat. They are available in white, yellow and black in colour and with different widths.

POTENTIAL USAGE

3M 380AW All Weather tape are ideal for interstates, dark rural roads and urban streets where nighttime reflectivity is critical.

STANDARDS

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| ASTM E1710 | Measurement of Retroreflective Pavement Marking Materials with CEN-Prescribed Geometry Using a Portable Retro-reflectometer |
| ASTM E2832 | Measuring the Coefficient of Retro-reflected Luminance of Pavement Markings in a Standard Condition of Continuous Wetting (RL-2) |
| ASTM E2177 | Measuring the Coefficient of Retro-reflected Luminance (RL) of Pavement Markings in a Standard Condition of Wetness |
| ASTM E303 | Measuring Surface Frictional Properties Using the British Pendulum Tester |

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Transportation and Economic Corridors has used this product on a Trial Site mentioned below. It will require another trial.

APPLICABLE STANDARDS

Alberta Transportation and Economic Corridors does not have standards for Pavement Marking Tapes and Wet Night High Visibility Pavement Markings.

RECOMMENDATIONS

3M 380AW All Weather tape be listed as a Trial Product under Alberta Transportation and Economic Corridors Products List, Pavement Markings – Traffic Marking Tape – Proprietary, and Pavement Markings – Wet Night High Visibility – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

RESTRICTIONS ON USE

Caveat:

TRIAL PROJECTS

Contract 24316 - Hwy 2A:16, Hwy 42:08 and Hwy 592:02 Roundabout at N. of Penhold. Recessed application around the Roundabout in August 2024.

Contract 19846 - HWY 2:30 NB lanes before the last Leduc exit, placed on the grooved surface on August 9, 2021 (this trial site is not considered because mistakenly the paint was applied on top of the tape next season).

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