



Report of Materials and Equipment Acceptance Division

NYC Department of Buildings
280 Broadway, New York, NY 10007
Patricia Lancaster, FAIA, Commissioner
(212) 566-5000, TTY: (212) 566-4769

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

MEA 401-05-M

Manufacturer: Luna Technologies International Inc.
Luna Technologies International Inc.
1922-70th Ave S, Kent, WA, 98032
Phone: (888) 955 8883 Fax: (888) 955 6688

Trade Name(s): Lunaplast™

Product: Lunaplast™ 2100SR photoluminescent semi rigid material

Pertinent Code Section(s): §27-383(b), Reference Standards RS 6-1 and RS6-1A

Prescribed Test(s):

1. - Brightness Rating - ISO 17398:2004
2. - Washability ASTM D 4828-1994 (2003)
3. - Toxicity Bombardier SMP 800-C
4. - Radioactivity ASTM D 3648-2004
5. - Flame Spread ASTM E 635-03

Laboratory: Bodycote Materials Testing Canada Inc. – Test: 2, 3, 5
California Institute of Electronics & Material Science – Test: 1, 4

Test Report(s): California Institute of Electronics & Material Science Report #950411820-1, dated November 2, 2005
Bodycote Materials Testing Canada Inc. – Report #05-04-2110-2, dated October 24, 2005
Bodycote Materials Testing Canada Inc. – Report #05-02-743(B), dated October 18, 2005
California Institute of Electronics & Material Science Report #950411820-3, dated November 2, 2005
Bodycote Materials Testing Canada Inc. – Report #05-02-743(A), dated October 18, 2005

Description:
Semi rigid photoluminescent material

Signs on doors leading to exit passageways

| Model Number | | Description |
|--------------|-----|---|
| E | -00 | SIGN; EGRESS; PATH; LAND; "EXIT" (L); RMR (R.); GN |
| E | -01 | SIGN; EGRESS; PATH; LAND; RML (L.); "EXIT" (R); GN |
| E | -02 | SIGN; EGRESS; PATH; LAND; "EXIT" (T.L); RMR (T.R.); "FOR EMERGENCY USE ONLY" (B);GN |

Signs beside doors leading to exit passageways

| Model Number | | Description |
|--------------|-----|--|
| E | -03 | SIGN; EGRESS; PATH; PORT; RMR (T.L.); UARR (T.R.); "EXIT" (B); GN |
| E | -04 | SIGN; EGRESS; PATH; PORT; RMR (T.L.); RUARR (T.R.); "EXIT" (B); GN |
| E | -05 | SIGN; EGRESS; PATH; PORT; RMR (T.L.); RDARR (T.R.); "EXIT" (B); GN |
| E | -06 | SIGN; EGRESS; PATH; PORT; LDARR (T.L.); RML (T.R.); "EXIT" (B); GN |
| E | -07 | SIGN; EGRESS; PATH; PORT; LUARR (T.L.); RML (T.R.); "EXIT" (B); GN |

Directional Signage upon entering an exit

| Model Number | | Description |
|--------------|-----|---|
| D | -00 | SIGN; EGRESS; PATH; LAND; RMR (L.); UARR (R); GN |
| D | -01 | SIGN; EGRESS; PATH; LAND; RMR (L.);RUARR (R); GN |
| D | -02 | SIGN; EGRESS; PATH; LAND; RMR (L.); RARR (R); GN |
| D | -03 | SIGN; EGRESS; PATH; LAND; RMR (L.); RDARR (R); GN |
| D | -04 | SIGN; EGRESS; PATH; LAND; RMR (L.); DARR (R); GN |
| D | -05 | SIGN; EGRESS; PATH; LAND; LDARR (L); RML (R.); GN |
| D | -06 | SIGN; EGRESS; PATH; LAND; LARR (L); RML (R.); GN |
| D | -07 | SIGN; EGRESS; PATH; LAND; LUARR (L); RML (R.); GN |
| D | -08 | SIGN; EGRESS; PATH; LAND; "EXIT" (L); RMR (M.); UARR (R); GN |
| D | -09 | SIGN; EGRESS; PATH; LAND; "EXIT" (L); RMR (M.); RUARR (R); GN |
| D | -10 | SIGN; EGRESS; PATH; LAND; "EXIT" (L); RMR (M.); RARR (R); GN |
| D | -11 | SIGN; EGRESS; PATH; LAND; "EXIT" (L); RMR (M.); RDARR (R); GN |
| D | -12 | SIGN; EGRESS; PATH; LAND; "EXIT" (L); RMR (M.); DARR (R); GN |
| D | -13 | SIGN; EGRESS; PATH; LAND; LDARR (L); RML (M.); "EXIT" (R); GN |
| D | -14 | SIGN; EGRESS; PATH; LAND; LARR (L); RML (M.); "EXIT" (R); GN |
| D | -15 | SIGN; EGRESS; PATH; LAND; LUARR (L); RML (M.); "EXIT" (R); GN |

Final Exit door signs

| Model Number | | Description |
|--------------|-----|---|
| E | -08 | SIGN; EGRESS; F.EXIT; PORT; RMR (U.L); UARR (U.R.); "FINAL EXIT" (B); GN |
| E | -08 | C SIGN; EGRESS; F.EXIT; PORT; RMR (U.L); UARR (U.R.); "custom text" (B); GN |
| E | -09 | SIGN; EGRESS; F.EXIT; LAND; "EXIT" (U,L); RMR (U.M); UARR (U,R.); "THROUGH LOBBY" (B); GN |
| E | -10 | SIGN; EGRESS; F.EXIT; LAND; "EXIT" (U,L); RMR (U.M); UARR (U,R.); "TO STREET" (B); GN |
| E | -10 | C SIGN; EGRESS; F.EXIT; LAND; "EXIT" (U,L); RMR (U.M); UARR (U,R.); "custom text" (B); GN |

Final Exit door hardware markings

| Model Number | | Description |
|--------------|-----|--|
| E | -11 | SIGN; EGRESS; F.EXIT; LAND; PSARR (L); "PUSH TO OPEN" (R.); GN |
| E | -12 | SIGN; EGRESS; F.EXIT; LAND; "PUSH TO OPEN" (M); GN |

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|---|-----|--|--|
| E | -13 | | SIGN; EGRESS; F.EXIT; SQUARE; CCWARR; GN |
| E | -14 | | SIGN; EGRESS; F.EXIT; SQUARE; CWARR; GN |
| E | -15 | | SIGN; EGRESS; F.EXIT; SQUARE; BLANK; GN |

Additional Signs - Exit & Pathway

| Model Number | Description | | |
|--------------|-------------|--|---|
| E | -16 | | SIGN; EGRESS; PATH; LAND; "NOT AN EXIT" (M); GN |
| E | -17 | | SIGN; EGRESS; PATH; LAND; "NO EXIT" (M); GN* |
| D | -21 | | SIGN; EGRESS; PATH; SMRND; BLANK* |
| D | -22 | | SIGN; EGRESS; PATH; SMRND; ARR; GN* |
| D | -23 | | SIGN; EGRESS; PATH; LGRND; BLANK* |
| D | -24 | | SIGN; EGRESS; PATH; LGRND; ARR; GN* |
| D | -25 | | SIGN; EGRESS; PATH; LAND; ARR; GN* |

Lunaplast Modular Signage System

| Model Number | Description | | |
|--------------|-------------|--|--|
| D | -16 | | SIGN; EGRESS; PATH; SQUARE; ARR (ANGLE); GN |
| D | -17 | | SIGN; EGRESS; PATH; SQUARE; ARR (STRAIGHT); GN |
| D | -18 | | SIGN; EGRESS; PATH; SQUARE; RMR (R); GN |
| D | -19 | | SIGN; EGRESS; PATH; SQUARE; RML (L); GN |
| D | -20 | | SIGN; EGRESS; PATH; LAND; "EXIT"; GN |

Fire Safety signs

| Model Number | Description | | |
|--------------|-------------|----|--|
| F | -00 | | SIGN; MARK; FIREEQ; PORT; EXTGR (T.L.); FLM (T.R.); "FIRE EXTINGUISHER" (B); RD* |
| F | -01 | | SIGN; MARK; FIREEQ; PORT; ALMPS (T.L.); FLM (T.R.); "FIRE ALARM" (B); RD* |
| F | -02 | | SIGN; MARK; FIREEQ; PORT; HOSE (T.L.); FLM (T.R.); "FIRE HOSE" (B); RD* |
| F | -03 | | SIGN; MARK; FIREEQ; PORT; PH (T.L.); FLM (T.R.); "FIRE PHONE" (B); RD* |
| F | -04 | | SIGN; MARK; FIREEQ; PORT; HOSE (L.); FLM (R.); RD* |
| F | -05 | | SIGN; MARK; FIREEQ; PORT; PH (L.); FLM (R.); RD* |
| F | -06 | | SIGN; MARK; FIREEQ; PORT; EXTGR (L.); FLM (R.); RD* |
| F | -07 | | SIGN; MARK; FIREEQ; PORT; ALMPS (L.); FLM (R.); RD* |
| F | -00 | 3D | SIGN; MARK; FIREEQ; PORT; EXTGR (T.L.); FLM (T.R.); "FIRE EXTINGUISHER" (B); RD* |
| F | -01 | 3D | SIGN; MARK; FIREEQ; PORT; ALMPS (T.L.); FLM (T.R.); "FIRE ALARM" (B); RD* |
| F | -02 | 3D | SIGN; MARK; FIREEQ; PORT; HOSE (T.L.); FLM (T.R.); "FIRE HOSE" (B); RD* |
| F | -03 | 3D | SIGN; MARK; FIREEQ; PORT; PH (T.L.); FLM (T.R.); "FIRE PHONE" (B); RD* |
| F | -04 | 3D | SIGN; MARK; FIREEQ; PORT; HOSE (L.); FLM (R.); RD* |
| F | -05 | 3D | SIGN; MARK; FIREEQ; PORT; PH (L.); FLM (R.); RD* |
| F | -06 | 3D | SIGN; MARK; FIREEQ; PORT; EXTGR (L.); FLM (R.); RD* |
| F | -07 | 3D | SIGN; MARK; FIREEQ; PORT; ALMPS (L.); FLM (R.); RD* |
| F | -08 | | SIGN; MARK; FIREEQ; PORT; LGARR (OUT); "FIRE EXTINGUISHER" (IN) RD* |
| F | -09 | | SIGN; MARK; FIREEQ; PORT; LGARR (OUT); "FIRE HOSE" (IN) RD* |
| F | -10 | | SIGN; MARK; FIREEQ; PORT; ALMPL (T.L.); FLM (T.R.) "IN CASE OF FIRE PULL TO SOUND FIRE ALARM" (B); BL; RD* |
| F | -11 | | SIGN; MARK; FIREEQ; PORT; ALMPS (T.L.); FLM (T.R.) "PUSH BUTTON TO SOUND FIRE ALARM" (B); BL; RD* |

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|---|-----|--|--|
| F | -12 | | SIGN; MARK; FIREEQ; PORT; BKGLS (T.L); FLM (T.R)' "IN CASE OF FIRE BREAK GLASS" (B); BL; RD* |
| F | -13 | | SIGN; MARK; FIREEQ; PORT; STR (T.L); FLM (T.R)' "IN CASE OF FIRE USE THE STAIRWAYS" (M.L); |
| | | | "DO NOT USE ELEVATORS" (B); BL; RD* |

Information signs

| Model Number | Description |
|--------------|---|
| I -00 | SIGN; INFO; EQ; LAND; CRSS (L); "FIRST AID" (R); BL* |
| I -01 | SIGN; INFO; EQ; LAND; CRSS (L); "EMERGENCY EQUIPMENT" (R); BL* |
| I -02 | SIGN; INFO; EQ; LAND; "ASSEMBLY STATION" (L); ASSBL (R); BL* |
| I -03 | SIGN; INFO; EQ; LAND; LDDR (L); "ESCAPE LADDER" (R); BL* |
| I -04 | SIGN; INFO; LOC; LAND; "STAIR ID" (L); "FLOOR ID"; (R) "VARIOUS TEXT - REENTRY DETAIL" (B); BL* |
| I -05 | SIGN; INFO; LOC; LAND; "STAIR ID" (L); "FLOOR ID"; (R) "RE-ENTRY ON THIS FLOOR" (B); BL* |
| I -06 | SIGN; INFO; LOC; LAND; "STAIR ID" (L); "FLOOR ID"; (R) "NO RE-ENTRY ON THIS FLOOR" (B); BL* |
| I -07 | SIGN; INFO; EQ; PORT; "AED" (T); "AUTOMATED EXTERNAL DEFIBRILLATOR" (M); AED (B); BL, RD* |

Wayfinding Products

| Model Number | Description |
|--------------|--|
| WF -02 | STRIP; EGRESS; PATH; BLANK, 1" |
| WF -03 | STREGM; EGRESS; PATH; BLANK, 9" |
| WF -05 | STREGM; EGRESS; PATH; BLANK, 12" |
| WF -08 | STRIP; EGRESS; PATH; BLANK, 1.75" |
| WF -10 | STRIP; EGRESS; PATH; BLANK, 2" |
| WF -11 | STRIP; EGRESS; PATH; HAZARD, 1" |
| WF -12 | STRIP; EGRESS; PATH; HAZARD, 2" |
| WF -13 | STRIP; EGRESS; PATH; AS, 2.5"AL, 1" PL |

Additional general signage

| Model Number | Description |
|--------------|--|
| I -08 | SIGN; MARK; FIREEQ; LAND; PH (L); "EMERGENCY TELEPHONE" (R); RD* |
| I -09 | SIGN; MARK; FIREEQ; LAND; SH (L); "EMERGENCY SHOWER" (R); RD* |
| I -10 | SIGN; MARK; FIREEQ; LAND; CHK (L); "BREATHING APPARATUS" (R); RD* |
| I -11 | SIGN; MARK; LOC; LAND; CHK (L); "IN CASE OF FIRE YOUR ASSEMBLY POINT IS:" (R); RD* |
| I -12 | SIGN; MARK; EQ; LAND; IWSH (L); "EMERGENCY EYE WASH" (R); RD* |
| I -13 | SIGN; MARK; EQ; LAND; TAP (L); "DRINKING WATER" (R); RD* |
| I -14 | SIGN; MARK; FIREEQ; LAND; STRCHR (L); "STRETCHER" (R); RD* |
| F -14 | SIGN; MARK; FIREEQ; LAND; EXTGR (L); FLM (M.L); "FOR USE ON ELECTRICAL FIRES" (M.R); FLM (R); RD* |
| F -15 | SIGN; MARK; FIREEQ; LAND; FHMT (L); FLM (M.L); "SPRINKLER STOP VALVE" (M.R); FLM (R); RD* |
| F -16 | SIGN; MARK; FIREEQ; LAND; HOSE (L); FLM (M.L); "OPEN VALVE BEFORE RUNNING OUT HOSE" (M.R); FLM (R); RD* |
| F -17 | SIGN; MARK; FIREEQ; LAND; FHMT (L); FLM (M.L); "DRY RISER" (M.R); FLM (R); RD* |
| F -18 | SIGN; MARK; FIREEQ; LAND; EXTGR (L); FLM (M.L); "HALON EXTINGUISHER. FOR USE ON COMPUTER EQUIPMENT ONLY" (M.R); FLM (R); RD* |
| F -19 | SIGN; MARK; FIREEQ; LAND; EXTGR (L); FLM (M.L); "CARBON DIOXODE. FOR USE ON ELECTRICAL OR |

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|---|-----|---|
| | | FLAMMABLE LIQUID FIRES" (M.R); FLM (R); RD* |
| F | -20 | SIGN; MARK; FIREEQ; LAND; EXTGR (L); FLM (M.L); "FOR USE ON FLAMMABLE LIQUID FIRES" (M.R); FLM (R); RD* |
| F | -21 | SIGN; MARK; FIREEQ; LAND; EXTGR (L); FLM (M.L); "DO NOT USE ON ELECTRICAL FIRES" (M.R); FLM (R); RD* |
| F | -22 | SIGN; MARK; FIREEQ; LAND; FHMT (L); FLM (M.L); "FOAM INLET" (M.R); FLM (R); RD* |
| F | -23 | SIGN; MARK; FIREEQ; LAND; FHMT (L); FLM (M.L); "WET RISER" (M.R); FLM (R); RD* |
| F | -24 | SIGN; MARK; FIREEQ; PORT; HTCHBR; "FIRE ALARM" (T); DARR (B); RD* |
| F | -25 | SIGN; MARK; FIREEQ; PORT; HTCHBR; "FIRE PHONE" (T); DARR (B); RD* |
| F | -26 | SIGN; MARK; FIREEQ; PORT; HTCHBR; "FIRE HOSE" (T); DARR (B); RD* |
| F | -27 | SIGN; MARK; FIREEQ; PORT; HTCHBR; "FIRE EXTINGUISHER" (T); DARR (B); RD* |
| F | -28 | SIGN; INFO; PATH; PORT; "IN CASE OF FIRE" (T.L); FLM (T.R); "DO NOT USE ELEVATOR" (M.L); ELEV (M.R); "USE THE STAIRS" (B.L); STR (B.R); RD, GN, BL* |
| F | -29 | SIGN; MARK; FIREEQ; PORT; ALM (T); ALMPS (M); FLM (B); BL, RD* |
| F | -30 | SIGN; EGRESS; PATH; LAND; STRDN (L); FLM (R); BL, RD* |
| F | -31 | SIGN; EGRESS; PATH; LAND; STRUP (L); FLM (R); BL, RD* |
| F | -32 | SIGN; EGRESS; PATH; LAND; FLM (L); WHCHR (R); BL, RD |

Stairwell Identification Signs

| Model Number | Description |
|--------------|---|
| I -15 | SIGN; MARK; LOC; PORT; "A"; BL, 2.5" |
| I -16 | SIGN; MARK; LOC; PORT; "B"; BL, 2.5" |
| I -17 | SIGN; MARK; LOC; PORT; "C"; BL, 2.5" |
| I -18 | SIGN; MARK; LOC; PORT; "D"; BL, 2.5" |
| I -19 | SIGN; MARK; LOC; PORT; "E"; BL, 2.5" |
| I -20 | SIGN; MARK; LOC; PORT; "F"; BL, 2.5" |
| I -21 | SIGN; MARK; LOC; PORT; "1"; BL, 2.5" |
| I -22 | SIGN; MARK; LOC; PORT; "2"; BL, 2.5" |
| I -23 | SIGN; MARK; LOC; PORT; "3"; BL, 2.5" |
| I -24 | SIGN; MARK; LOC; PORT; "4"; BL, 2.5" |
| I -25 | SIGN; MARK; LOC; PORT; "5"; BL, 2.5" |
| I -26 | SIGN; MARK; LOC; PORT; "+"; BL, 2.5" |
| I -27 | SIGN; MARK; LOC; PORT; "6"; BL, 2.5" |
| I -28 | SIGN; MARK; LOC; PORT; "7"; BL, 2.5" |
| I -29 | SIGN; MARK; LOC; PORT; "8"; BL, 2.5" |
| I -30 | SIGN; MARK; LOC; PORT; "9"; BL, 2.5" |
| I -31 | SIGN; MARK; LOC; PORT; "0"; BL, 2.5" |
| I -32 | SIGN; MARK; LOC; PORT; "-"; BL, 2.5" |
| I -33 | SIGN; MARK; LOC; LAND; "FLOOR"; BL, 2.5" |
| I -34 | SIGN; MARK; LOC; LAND; "STAIR"; BL, 2.5" |
| I -35 | SIGN; MARK; LOC; LAND; "BASEMENT"; BL, 2.5" |
| I -36 | SIGN; MARK; LOC; LAND; "GROUND FLOOR"; BL, 2.5" |
| I -37 | SIGN; MARK; LOC; PORT; "G"; BL, 2.5" |
| I -38 | SIGN; MARK; LOC; PORT; "L"; BL, 2.5" |
| I -39 | SIGN; MARK; LOC; PORT; "A"; BL, 4.5" |
| I -40 | SIGN; MARK; LOC; PORT; "B"; BL, 4.5" |

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|---|-----|--|---|
| I | -41 | | SIGN; MARK; LOC; PORT; "C"; BL, 4.5" |
| I | -42 | | SIGN; MARK; LOC; PORT; "D"; BL, 4.5" |
| I | -43 | | SIGN; MARK; LOC; PORT; "E"; BL, 4.5" |
| I | -44 | | SIGN; MARK; LOC; PORT; "F"; BL, 4.5" |
| I | -45 | | SIGN; MARK; LOC; PORT; "1"; BL, 4.5" |
| I | -46 | | SIGN; MARK; LOC; PORT; "2"; BL, 4.5" |
| I | -47 | | SIGN; MARK; LOC; PORT; "3"; BL, 4.5" |
| I | -48 | | SIGN; MARK; LOC; PORT; "4"; BL, 4.5" |
| I | -49 | | SIGN; MARK; LOC; PORT; "5"; BL, 4.5" |
| I | -50 | | SIGN; MARK; LOC; PORT; "+"; BL, 4.5" |
| I | -51 | | SIGN; MARK; LOC; PORT; "6"; BL, 4.5" |
| I | -52 | | SIGN; MARK; LOC; PORT; "7"; BL, 4.5" |
| I | -52 | | SIGN; MARK; LOC; PORT; "8"; BL, 4.5" |
| I | -54 | | SIGN; MARK; LOC; PORT; "9"; BL, 4.5" |
| I | -55 | | SIGN; MARK; LOC; PORT; "0"; BL, 4.5" |
| I | -56 | | SIGN; MARK; LOC; PORT; "-"; BL, 4.5" |
| I | -57 | | SIGN; MARK; LOC; LAND; "FLOOR"; BL, 4.5" |
| I | -58 | | SIGN; MARK; LOC; LAND; "STAIR"; BL, 4.5" |
| I | -59 | | SIGN; MARK; LOC; LAND; "BASEMENT"; BL, 4.5" |
| I | -60 | | SIGN; MARK; LOC; LAND; "GROUND FLOOR"; BL, 4.5" |
| I | -61 | | SIGN; MARK; LOC; PORT; "G"; BL, 4.5" |
| I | -62 | | SIGN; MARK; LOC; PORT; "L"; BL, 4.5" |

Custom Sign

| | | | |
|---|-----|---|-------------------------------------|
| I | -00 | C | SIGN; custom marking; "custom text" |
|---|-----|---|-------------------------------------|

Notes:

* The model(s) with asterisks comply with laboratory tests but do not satisfy the design and/or dimensional requirements for mandatory installations under Section 2.1 and 2.2 of RS6-1. These models with asterisks may be installed only as "additional signs and markings" under section 2.5 of RS 6-1.

Terms and Conditions:

1. Pathway markings of green color shall be in compliance with ANSI Z535.1 Safety Color Code.
2. Arrows and egress symbols shall comply with ISO 7010 E001, E002, E003, E004.
3. All approved materials shall be labeled and identified with the model number as well as with MEA No. 401-05-M, BR: 33-8-5 in a minimum of six (6) point type with at least one such identification on each piece of material installed in accordance with RS 6-1.
4. No radioactive materials are used.
5. All signs and markings shall conform to the pictorial representations submitted with this application.
6. All models directing persons to exits are to be installed at a low location so as not to confuse with other required exit signage.

7. No transparent or translucent overlaminates, varnishes, or other coatings shall be applied to the photoluminescent portions of the marking.
8. This acceptance is limited to the materials' use and does not include the installation for compliance with §27-383(b) and Reference Standard 6-1, which is the responsibility of the building owner.

Per §27-131(d), all materials tested and acceptable for use, shall be subject to periodic retesting as determined by the commissioner; and any material which, upon retesting is found not to comply with code requirements or the requirements set forth in the approval of the commissioner shall cease to be acceptable for the use intended. During the period for such retesting, the commissioner may require the use of such material to be restricted or discontinued if necessary to secure safety.

All shipments and deliveries of photoluminescent exit path markings shall be provided with a certification from the manufacturer, certifying that the materials shipped or delivered are equivalent to those tested and accepted for use, as provided for in section 27-131 of the Building Code.

Final Acceptance November 30, 2005
Examined by Siun Derkhotan