

**BRADY B-552 BradyGlo (TM) High Intensity Aluminum Sign**

TDS No. B-552  
Effective Date: 08/24/2005

**Description:**

Brady B-552 BradyGlo™ High Intensity material is a glow-in-the-dark (photoluminescent) aluminum sign designed for either adhesive or mechanical mounting.

**Details:**

**Use:**

Brady B-552 BradyGlo High Intensity Aluminum Sign is designed to provide luminance for egress marking in low light areas in and along stairwells of buildings. Uses such as: door signs (intermediate, final, not an exit, etc.), wall mounted signs, directional signage (entering an exit, transfer levels, unclear egress direction), and other signs. Please see the BradyGlo™ High Intensity Product Installation Instruction. See [www.BradyID.com/BradyGlo](http://www.BradyID.com/BradyGlo) for more information.

**Relevant Standards:**

Complies with all indoor use requirements specified in RS 6-1 and 6-1A of New York Local Law 26 including photoluminescence, washability, flammability, toxic gas generation, and radioactivity.

Approved Model Numbers Accepted For Use, City of New York, Department of Buildings: MEA No. 233-05-M BR: 49-11-7

**Inherent Properties:**

Brady B-552 is a photoluminescent, non-toxic, non-radioactive, explosion safe (does not generate energy to induce explosions) material allowing for safe and effective egress marking.

**Illuminescent Characteristics:**

Illumination: 21.6 lux (2 foot-candles) for 2 hours with a 4100K cool white fluorescent lamp.  
Luminance (after illumination): 10 minutes: 49 mcd/m<sup>2</sup>  
60 minutes: 11 mcd/m<sup>2</sup>  
90 minutes: 7 mcd/m<sup>2</sup>

**Substrate Type:**

Phosphorescent Aluminum

**Standard Legend Colors:**

Black, green, and red

**Thickness (PSTC-133):**

0.045 in. (1.143 mm)

**Abrasion Resistance of Printed Text (Method 5306 of U.S. Federal Method Std. No. 191A):**

CS-10 Wheels, 250g wts.  
Legend withstands up to 90 cycles  
CS-17 Wheels, 1000g wts.  
Substrate withstands up to 4000 cycles

**Gloss (ASTM D-523):**

60° - 118 Gardner Units

**Minimum Application Temperature:**

50°F (10°C)

**Service Temperature:**

-40°F to 158°F (-40°C to 70°C)

**Chemical Resistance:**

Chemical	7 Day Immersion	Dip Test	Rub Test
30% Sulfuric Acid	F	NE	NE

10% Sulfuric Acid	F	NE	NE
30% Hydrochloric Acid	F	F	NE
10% Hydrochloric Acid	NE	NE	NE
Glacial Acetic Acid	F	F	NE
5% Acetic Acid	NE	NE	NE
50% Sodium Hydroxide	F	NE	NE
10% Sodium Hydroxide	F	NE	NE
10% Ammonia	NE	NE	NE
5% Sodium Hypochlorite	NE	NE	NE
10% Sodium Chloride	NE	NE	NE
MEK	F	NE	NE
Acetone	F	NE	NE
Toluene	F	NE	NE
Methanol	NE	NE	NE
Isopropyl Alcohol	NE	NE	NE
Heptane	F	NE	NE
Mineral Spirits	NE	NE	NE
Turpentine	NE	NE	NE
Diesel Fuel	NE	NE	NE
Kerosene	NE	NE	NE
Gasoline	F	NE	NE
ASTM #3 Oil	NE	NE	NE
SAE 20 Oil	NE	NE	NE
Alconox®	NE	NE	NE
Water	NE	NE	NE
Formula 409 Cleaner®	NE	NE	NE

NE = No Effect  
F = Failed

Dip Test: Five 10 minute dips in reagent with 30 minute recovery.  
Rub Test: Rubbed sample for 1 minute with swab soaked in reagent.

**Shelf Life**

6 years when stored at 70°F (21°C) and 40% to 50% RH.

**Trademarks:**

Alconox® is a registered trademark of Alconox Co.  
Signmark® is a registered trademark of Brady Worldwide, Inc.  
ASTM: American Society for Testing and Materials (U.S.A.)  
Fed. Spec.: United States Federal Specification (U.S.A.)  
PSTC: Pressure Sensitive Tape Council (U.S.A.)  
BradyGlo™ is a trademark of Brady Worldwide, Inc.

**Note:** All values shown are averages and should not be used for specification purposes.

Test data and test results contained in this document are for general information only and shall not be relied upon by Brady customers for designs and specifications, or be relied on as meeting specified performance criteria. Customers desiring to develop specifications or performance criteria for specific product applications should contact Brady for further information.

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