

# CASTinTACT®

## Concrete Tactile Warning Panels

### Accelerated Weathering

#### ASTM G155 – 05A Test Method For Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials

##### Scope

This test method covers the basic principles and operating procedures for using xenon arc light and water apparatus intended to reproduce the weathering effects that occur when materials are exposed to sunlight (either direct or through window glass) and moisture as rain or dew in actual use. This practice is limited to the procedures for obtaining, measuring, and controlling conditions of exposure.

Test specimens are exposed to filtered xenon arc light under controlled environmental conditions.

##### Significance and Use

The use of this apparatus is intended to induce the property changes associated with the end use conditions, including the effects of sunlight, moisture, and heat. These exposures may include a means to introduce moisture to the test specimen. Typically, these exposures would include moisture in the form of humidity.

Property	Test Method	Requirements
Accelerated Weathering	ASTM G 155	2000 hours $\Delta E < 5$

### ASTM G-155 Testing Results

Salem Red		Yellow		Black	
Specimen #1	0.36	Specimen #1	4.48	Specimen #1	0.34
	0.78		0.96		1.53
	1.59		1.04		0.73
Specimen #2	1.34	Specimen #2	0.29	Specimen #2	0.60
	0.48		0.82		0.26
	1.29		2.35		0.28
Specimen #3	0.32	Specimen #3	1.11	Specimen #3	0.61
	0.38		0.83		0.82
	0.22		0.26		1.08
Average $\Delta E$	<b>0.75</b>	Average $\Delta E$	<b>1.35</b>	Average $\Delta E$	<b>0.69</b>

All specimens were tested for 2096 hours.