

PSX-700 WEATHERING TEST DATA

SYSTEM	SUBSTRATE	MILS (d.f.t)	TEST	ASTM	DURATION	RESULTS			
						Unscribed Area		Scribed Area	
IOZ / PSX- 700	SSPC SP-10 sandblasted steel	2.3 / 6.1	cyclic salt fog / QUV cabinet	B117/ G151	2700 hrs	Blister	Rust	Blister	Scribe Creepage
						10	10	10	10
IOZ/ PSX-700	SSPC SP-10 sandblasted steel	4.3/ 7.4	cyclic salt fog /QUV cabinet	B117/ G151	3025 hrs	10	10	10	10
PSX-700	SSPC SP-10 sandblasted steel	5	Prohesion	G85	2500 hrs	10	9	8 ASTM 1654	8 ASTM 1654
IOZ/ PSX-700	SSPC-10 sandblasted steel	7	Prohesion	G85	2500 hrs	10	9	8	8
PSX-700	SSPC SP-10 sandblasated steel	6-7	Salt Fog	B117	5500 hrs	10	10	6	7
PSX-700	SSPC SP-10 sandblasted steel	6-7	Cleveland Humidity	D2247	5500 hrs	10	10	na	na
PSX-700	SSPC SP-10 sandblasted steel	6-7	South FL marine exposure	na 45° facing east	18 mo.	Face blistering	Face Rusting	Gloss Retention	Delta E
						10	10	90.1	0.46
PSX-700	clean, dry phosphatized steel	6-7	QUV Accelerated Weathering		2500 hrs	10	10	50% avg.	na

EVALUATION STANDARDS

ASTM D610 Rust Evaluations

- 10 = no rusting or less than 0.01% rusting of the surface area
- 9 = minute rusing or less than 0.03% rusting of the surface area
- 8 = few isolated rust spots, less than 0.1% rusting of the surface area

7 = < 0.3%
 6 = < 1%
 5 = < 3%
 4 = < 10%
 3 = 1/6th
 2 = 1/3rd
 1 = 1/2
 0 = 100% rusted

ASTM D1610 Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments

FAILURE AT THE SCRIBE RATINGS (creepage distance from the scribe)

10 = 0	5 = 1/8" – 3/16"
9 = 0 – 1/64"	4 = 3/16" – 1/4"
8 = 1/64" – 1/32"	3 = 1/4" - 3/8"
7 = 1/32" – 1/16"	2 = 3/8" – 1/2"
6 = 1/16" – 1/8"	1 = 1/2" – 5/8"

RATING OF UNSRIBED AREAS ("face")

10 = no failure	5 = 11-20% failure
9 = less than 1% failure	4 = 21-30 % failure
8 = 2-3 % failure	3 = 31-40% failure
7 = 4-6% failure	2 = 41-55% failure
6 = 7-10 % failure	1 = 56-75% failure