

LEGEND

Q-Lab exposure reports use standard rating scales, primarily ASTM or ISO. This legend provides basic information on the rating scales used in your report.

Inspection and Reporting Standards

Commonly used standard methods for determining degradation effects.

Effect	Standard
Adhesion	ASTM D3359, ISO 2409
Blistering	ASTM D714, ISO 4628-2
Chalking	ASTM D4214, ISO 4628-7
Checking	ASTM D660, ISO 4628-4
Color (visual)	ASTM D1729, ISO 3678
Corrosion	ASTM D1654, ISO 4628-8
Cracking	ASTM D661
Dirt	ASTM D3274
Erosion	ASTM D662
Flaking	ASTM D772, ISO 4628-5
Instrumental Gloss	ASTM D523, ISO 2813
Mildew Growth	ASTM D3274
Surface Rust	ASTM D610, ISO 4628-3

Numerical Scales

Numerical scales are used to depict the degree of effect being reported.

No	Quality	Change	ISO
10	Excellent	No Effect	0
9	----	Very Slight	1
8	Very Good	Slight	2
6	Good	Moderate	3
4	Fair	Pronounced	4
2	Poor	Severe	5
0	Very Poor	Very Severe	--

The numerical scales are used for a wide variety of defects included in the report such as: general appearance, chalk, dirt, mildew, color, etc. Odd numbers are used when the degree is obviously intermediate.

Visual Color Change

Subjective appearance evaluation under standard illumination with 10 to 0 scale. Added to the color rating to indicate direction of change.

F	Fading	All visual color reports will include the amount and type of color change. Ex: 8F = Slight Fading
D	Darkening	
BL	Bleaching	
Y	Yellowing	
DC	Discoloration	

Specialized Scales

For factors which do not fit the typical degree rating scale.

a. Checking/Cracking (ASTM D660, ISO 4628-4)

Report includes degree, type, and depth of defect noted

Effect	Type	Depth
10 None	A Irregular	a Checking
8 Slight	B Line & short parallel	b Cracking
6 Moderate	C Switch	
4 Pronounced	D Crow Foot	
2 Severe	E Mosaic	
0 Very Severe	F Shrinkage	
	G Short Random	
	H Sigmoid	

Example: 6Da = Moderate Crow Foot Checking

b. Blistering (ASTM D714, ISO 4628-2)

Rating for blistering is a size/frequency composite.

No	Descriptive	Size	Rating	Density
10	None	0	0	None
8	Pinpoint	0-1 mm	F	Few
6	Small	1-2 mm	M	Medium
4	Medium	2-3 mm	MD	Medium Dense
2	Large	3-5 mm	D	Dense
0	Very Large	> 5 mm	VD	Very Dense

Example: 4D = Medium size, dense frequency

c. Scribe Rust and Corrosion (ASTM D1654, ISO 4628-8)

Rust creepage from a scribe line is reported using scales derived from the distance that the rust has spread from the scribe line. This can be referenced back to either inches or millimetres.

d. Surface Area (ASTM D610, ISO 4628-8)

Where the effect covers the surface of the test specimen, a 10 to zero scale is used to report the percentage of area covered.

10	None	7	0.3%	3	17%
9	0.03%	6	1%	2	33%
8	0.1%	5	3%	1	50%
		4	10%	0	>50%

e. Instrumental Gloss

O = Original P = Present Δ = Difference



INSPECTION REPORT

TEST NO: GIE-6

REPORT NO: 1

DATE: 9 Mar 2008

Specimen Number	Gen App						Color	Dirt	Mildew	Crack			Comments
Timbersoy-10-07A	7					7 D	10	10	10				
SSPPA150-10-07B-1	0					0 D	10	10	10				
SSPPA150-10-07B-2	0					0 D	10	10	10				Mask area mistakenly larger
SSPPA100-10-07C-1	1					1 D	10	10	10				
SSPPA100-10-07C-2	1					1 D	10	10	10				
892D-10-07D	3					3 D	10	10	10				
950D-10-07E	5					5 D	10	10	9Bb				
950F1-10-07F	5					5 D	10	10	10				
950F1.5-10-07G	6					6 D	10	10	10				
TWP101-10-07H	7					7 D	10	10	9Bb				
644 401A-10-07I	6					6 D	10	10	10				
SSPP 350A-10-07J	1					2 D	10	10	10				Uneven darkening
SSWBSIS-10-07K-1	5					5 D	10	10	10				
SSWBSIS-10-07K-2	6					6 D	10	10	10				
TWP501-10-07L	7					7 F	10	10	9Bb				
SSWB1-10-07M	8					8 D	10	10	10				
Timbersoy-10-07A	1					1 D	10	10	8Bb				
SSPPA150-10-07B	1					1 D	10	10	4Bb				
SSPPA100-10-07C	0					0 D	10	10	5Bb				
892D-10-07D	1					1 D	10	6	7Bb				
950D-10-07E	4					4 D	10	10	8Bb				
950F1-10-07F	6					6 D	10	6	8Bb				
950F1.5-10-07G	5					5 D	10	6	9Bb				
TWP101-10-07H	5					5 D	10	5	6Bb				
644 401A-10-07I	5					6 D	8	4	10				
SSPP 350A-10-07J	0					0 D	10	10	6Bb				
SSWBIS-10-07K	7					7 D	10	9	8Bb				
TWP501-10-07L	5					7 D	10	5	10				
SSWB1-10-07M	6					6 D	10	10	9Bb				



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Very Good	Slight	8	2	4
Good	Moderate	6	3	3
Fair	Pronounced	4	4	2
Poor	Severe	2	5	1
Very Poor	Very Severe	0	--	--

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