



PERFORMANCE, FLOOR MAT LOGOS

WSS-M15P49-A1

1. SCOPE

The performance defined by this specification is the minimum requirements required for good quality floor mat logos fixed to carpeted floor mat substrates.

2. APPLICATION

This specification was released originally for direct embroidered and adhesive melt logos used for floor mat applications.

3. REQUIREMENTS

3.1 APPROVED SOURCES

This specification is performance based and does not have approved sources.

3.2 DV/PV TEST PLAN

PEC/FEC/PV testing must be conducted in compliance with program milestones unless otherwise specified by Ford Engineering. See Table 2 for DV/PV testing.

3.3 CONDITIONING AND TESTING

The logos must be applied to the production representative floor mat composite using a production representative process. See Table 1 and Table 2 for testing requirements & sample size. Final determination of pass/fail criteria for the italicized items will be made by Ford Engineering.

All test values are based on material conditioned for not less than 24 h prior to testing in a controlled environment of 23 +/- 2 °C and 50 +/- 5% relative humidity. Testing of the material should occur in the conditioning environment or soon after removal.

3.4 APPEARANCE

The color, pattern, and face construction shall match the approved Corporate Design master sample.

3.5 LOGO SEPARATION FROM FLOOR MAT

3.5.1 Initial Separation

Sample Preparation: Take the floor mat with the logo and bend the floor mat 180° under at the edge of the logo. On each side of the logo use a small clamp to compress the floor mat.

Requirement: The logo may not show any visual evidence of peeling, separation from the carpet fibers, loss of adhesion, curling edges, delamination or any other effect which would detract from its proper function or appearance.

3.5.2 Separation after Heat Age

Rating 4 min

(Prepare per 3.5.1, then FLTM BO 040-01 Procedure B, 80 +/- 2 °C, AATCC Evaluation Procedure 1)

Date	Action	Revisions	Rev. 1
2017 07 07	Revised	Updated test methods and testing tables	A. Collins, NA
2015 06 12	Released		L. Sinclair, NA





Requirement: The logo may not show any visual evidence of peeling, separation from the carpet fibers, loss of adhesion, curling edges, delamination, loss of legibility, discoloration, , cracking, excessive shrinkage or any other effect which would detract from its proper function or appearance.

3.5.3 Separation after Humidity

Rating 4 min.

(Prepare per 3.5.1, then 7 days at 38 +/- 2 °C, 95-100% R.H., AATCC Evaluation Procedure 1)

Requirement: The logo may not show any visual evidence of peeling, separation from the carpet fibers, loss of adhesion, curling edges, delamination, loss of legibility, discoloration, cracking, excessive shrinkage or any other effect which would detract from its proper function or appearance.

3.5.4 Separation after Environmental Cycling

Rating 4 min

(Prepare per 3.5.1, then FLTM BO 040-01 Procedure A, high temperature 80 °C, AATCC Evaluation Procedure 1)

Requirement: The logo may not show any visual evidence of peeling, separation from the carpet fibers, loss of adhesion, curling edges, delamination, loss of legibility, discoloration, cracking, excessive shrinkage or any other effect which would detract from its proper function or appearance.

3.5.5 Separation after Cold Cycle

Rating 4 min

(Prepare per 3.5.1, then 24 h at -30 +/- 2 °C AATCC Evaluation Procedure 1)

Requirement: The logo may not show any visual evidence of peeling, separation from the carpet fibers, loss of adhesion, curling edges, delamination, loss of legibility, discoloration, cracking, excessive shrinkage or any other effect which would detract from its proper function or appearance.

3.5.6 Separation after Water Immersion

Rating 4 min

(Prepare per 3.5.1, then 24 h at 32 +/- 2 °C, Completely immersed in a water bath, AATCC Evaluation procedure 1)

Requirement: The logo may not show any visual evidence of peeling, separation from the carpet fibers, loss of adhesion, curling edges, delamination, loss of legibility, discoloration, cracking, excessive shrinkage or any other effect which would detract from its proper function or appearance.

3.6 TABER ABRASION

600 cycles

(FLTM BN 108-02, CS-10 Wheel, 500 g load)

Test shall be conducted with the logo 100% bonded to the substrate to form a material composite. For high pile carpets, adhesively applied logos can be tested by themselves to prevent the Taber wheels from bouncing on the logos creating localized wear.

Logo may not show visual evidence of peeling, loss of legibility, loss of adhesion, curling edges, severe fiber breakage or any other effect which would detract from its proper function or appearance.