

PERFORMANCE
RATING
DETAILS

EUROCOE
townsend[®]
LEATHER

Order #
description

Embossed & Stamped Rainfall Ptn. ELV



WEAR CYCLES
TEST NO.

TEST CONDITION

HRS. COND. TEMP.
WHEEL NO. LOAD
TECHNICIAN
S-36 SPECIMEN

BEFORE
AFTER
WT. LOSS

**TOWNSEND'S
PERFORMANCE
RATING
SYSTEM,**

is based on a detailed and specific battery of quality tests. Through escalating difficulty and intensity, we are able to assign a performance rating of 1 to 5 for each product.

SAMPLE NO.		
- DESCRIPTION -		
WEAR CYCLES	BEFORE	
	AFTER	
TEST NO.	WT. LOSS	
- WEIGHT -		
	BEFORE	
	AFTER	
TEST CONDITIONS		
HRS. COND.	TEMP.	HUMIDITY
WHEEL NO.	LOAD	SUCTION

ENVIRONMENTAL CHAMBER

MODEL 5

TEMPERATURE

70.5

TEMP °C °F SET PT.

COOL

HEAT

ON
OFF

ON
OFF

ON
OFF

RELATIVE HUMIDITY

50.3

REL. HUM. SET PT.

DEHUMIDIFY

HUMIDIFY

ON
OFF

ON
OFF

ON
OFF

POWER

LIGHT

A rating of 5 represents leathers that meet or exceed the greatest number of testing standards; 1 represents leathers that pass minimal testing standards. Our sample labels and other product materials reference each product's placement in the rating system.

RATING AND USES

In general,

- Products rated 3 and up are recommended for most applications.
- Products rated 4 and 5 are most commonly used for aviation or public space seating applications.
- Products rated lower may still be used in proper settings and may provide the exact look and feel that you are looking for.

Your Townsend Leather Sales Rep or Customer Service Rep can always help provide further explanations or guidance to help you select the appropriate leather for each application.

We can often add finishes or other processing to re-engineer lower-rated products if applications are expected to be more demanding.

Every leather dye lot is tested to ensure adherence to the performance standards published for each product.

Quality and Performance are distinctly different attributes, every Townsend Leather product is of the utmost highest quality, but different applications will require different performance ratings.

RATING TEST PERFORMED AND PASSED:

1	Water Spotting And Crock Test
2	Water Spotting, Crock Test And Tape Test
3	Water Spotting, Crock, Arm Rub Welt, Taber Cs10 Without Weight And Accelerated Ageing
3.5	Water Spotting, Crock, Arm Rub Welt Test, Tape Test, Taber Cs10 With Weights, Accelerated Ageing
4	Water Spotting, Crock, Federal Block, Arm Rub Welt Test, Tape Test, Taber Cs10 With Weight, Accelerated Ageing
4.5	Water Spotting, Crock, Federal Block, Arm Rub Welt Test, Wyzenbeek, Tape Test, Taber H18 Without Weight, Accelerated Ageing
5	Water Spotting, Crock, Federal Block, Arm Rub Welt Test, Wyzenbeek, Tape Test, Taber H18 With Weight, Accelerated Ageing

5 Leathers rated at a #5 are considered the most protected. These leathers have passed the highest number of tests and will handle the highest level of wear. Our Classic Cowhide is the best example of a #5 Performance Rated Leather.

4.5 Leathers rated at a #4.5 are considered highly protected. These leathers have passed all the performance tests listed for a #4 Rated leather plus an additional Wyzenbeek and more aggressive Taber test. Excel and Heritage are best examples of a #4.5 Rated leather.

4 Leathers rated at a #4 are considered high performing. These leathers have passed all the performance tests listed for a #3.5 Rated leather plus an additional Federal Block test. Most of Townsend's Finished leather products are rated a #4.

3.5 Leathers rated at a #3.5 are considered mid level protected. These leathers have passed all the performance tests listed for a #3 Rated leather plus an additional Tape Test.

3 Leathers rated at a #3 are mid-performance leathers. These leathers have passed all the performance tests listed for a #2 Rated leather plus an additional Arm Rub Welt, Taber Test, and Accelerated Ageing test. The popular and natural leather, Softina is an example of a #3 Rated leather.

2 (Townsend has no leathers rated at 2.5) Leathers rated at a #2 are considered naturally protected. These leathers have passed all the performance tests listed below, plus an additional Tape Test. Nubuck and suede are popular examples of a #2 Rated leather.

1 (Townsend has no leathers rated at 1.5) Leathers rated at a #1 are considered no protection. This rating is provided to naked or pearl crust. #1 Rated leathers can pass a water spotting test and a crocking test.

LAYMAN'S TERMS FOR QC TESTS

WATER SPOTTING

Water Spotting will test if there are any negative effects from spilling water on the leather. In order to pass the Water Spotting test, there should not be any permanent swelling or staining seen after water is applied.

CROCK

Crock test is looking to see if there is any excessive dye on the surface of the leather which rubs or comes off onto other surfaces.

FEDERAL BLOCK

Imagine you have leather to leather contact somewhere on your finished product, be it where the arm of the couch meets the seat cushion, or where the headrest meets the rest of the seat on your airplane. This test looks to see if that contact would experience any sticking.

Federal Block tests leather to leather contact (which commonly is where the arm of a couch meets the seat cushion or headrest meets the aircraft seat). This test looks to see if that contact would experience any sticking and finish peeling.

ARM RUB WELT TEST

Arm Rub Welt tests abrasion to determine if there is any wear when the leather is stretched and rubbed with a light cotton cloth.

WYZENBEEK

Wyzenbeek is a more stringent abrasion test. This test simulates rubbing and wear on leather furniture with jeans over a long period of time.

TAPE TEST

Tape Test is an adhesion test. The leather finish is cut through on the product and tape put on and pulled off to see if the finish will be removed.

TABER TEST - H18, CS10 WITH & WITHOUT ADDITIONAL WEIGHT

Taber Test H18, CS10 with and without additional weight is another form of abrasion test. Various test settings and materials make it more and more stringent by increasing the abrasiveness or the pressure on the leather material to see if there shows any break down on the finish.

ACCELERATED AGEING

Accelerated Ageing puts a piece of the finished leather in a chamber which simulates very high heat and humidity environments to see how the leather sustains.