



*Airy yet substantive,  
with the freedom of  
extra wide yardage.*

Oeko-Tex	Standard 100 Certified yarns.
LEED	Eligible for credits: indoor air quality, use of rapidly renewable resources, and/or innovation.
Fiber Composition	83% long fiber linen, 17% silk
Colorways	4
Width	Double width: 133.9" / 340 cm
Weight	3.8 oz sq yd / 120 gm sq meter
Repeat	H: 7.6" / 19.3 centimeters
Country of Origin	Italy
Colorfast to light	AATCC 16: 4 at 60 hrs

# TYEE #70-9510

## ECO FACTS

**Luscious Linen.** This linen is grown in northern Italy without the use of herbicides, pesticides or synthetic fertilizers. Called "bio linen" in Italy, it will qualify for "organic" certification. The linen fibers we use in the yarn are "tow" or extremely long fiber strands.

**Certified Safe.** The fibers are spun into yarn and dyed in northern Italy by a spinner who has earned the "Master of Linen" designation. These craftspeople use only low-impact fiber reactive dyes that have no chemical toxicity. They take care to treat their wastewater so that it does not contaminate the local environment.

These yarns are certified by Oeko-Tex to Standard 100. Oeko-Tex is a third party certifier; it measures the chemicals found in fabrics which are known to impact human health. Their standard 100 is the most stringent, which means these yarns are safe enough for infants to put in their mouths.

**Old-World Methods.** The yarns are woven into the fabric at a mill in southern Italy that has been in the same location for over 100 years. This mill uses absolutely no sizers or de-sizers, in fact it uses no chemicals at all throughout their production process, avoiding chemical baths that degrade the yarn's quality and inherent strength.

## TEST RESULTS

Tyee is predicted to meet GreenGuard standards. It was tested by an ISO 9001:2000 registered IAQ (Indoor Air Quality) testing lab, which measured the out-gassing of nasty chemicals. Our results were very impressive, well below limits set by the USGBC to allow fabrics to accrue LEED points for low emitting materials.

This test, a combination of gas chromatograph/mass spectrometry and high performance liquid chromatography, lasts for 24 hours. A small piece of fabric is placed in a closed chamber. The chemicals out-gassed for the first 24 hours at a given temperature and pressure are extrapolated to predict the results for the equivalent of a room volume. Based on decay rates for various chemicals, the test predicts the results after 168 hours (the GreenGuard requirement). So based on those parameters, and the results you see below, our fabrics passed with flying colors.

The LEED threshold and our actual results are:

Chemical measured	LEED requirement	O Ecotextiles Fabric Group #1	O Ecotextiles Fabric Group #2
TVOC - Total Volatile Organic Compounds	.25 mg/m <sup>3</sup>	.048 mg/m <sup>3</sup>	.02 mg/m <sup>3</sup>
HCHO (formaldehyde)	25 parts per billion	<1 part per billion	<1 part per billion
Total aldehydes	50 parts per billion	<1 part per billion	1 part per billion

*We're happy to send you more detailed lists of the 22 chemicals actually tested and not just the grouping of the chemical categories should you want it.*

Group 1 Fabrics: Bloedel, Chinook, Lopez, Ozette, Ross Lake, Tyee  
Group 2 Fabrics: Shoto, Tacoma, Rogue River, Hardy Organic Hemp



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