

Coated Fabric Upholstery Specification Guide

Bolta**flex**[®]

NAUTOLEX[®] 

Performance Matters

Selecting the right performance level for your project can help create and maintain a pleasing aesthetic, provide a cleanable, lasting environment, and deliver better long-term return on investment.

Weight	Weight is frequently used as a proxy for durability. OMNOVA has optimized the protective coating weight along with the textile construction for durability in all applications but generally, a higher weight fabric will ensure long-term performance.
Material	The two main categories of coated fabric upholstery are PVC and Polyurethane (PU). Generally, PU is softer and designed for indoor applications. PVC is extremely durable, moisture resistant, and is used in a wide range of applications.
Protective Finish	A protective finish resists staining, abrasion and chemicals. PreFixx® protective finish provides the highest level of proven protection available.
Textile Backing	There are a number of backings available each providing different characteristics to the overall upholstery: Knit Constructions, Woven Constructions and Nonwoven Polyester Construction.
Knit Constructions	Constructions such as Polyester Terry Loop and Polyester Jersey Knit feature higher stretch than woven products and a surface that “bounces back.”
Woven Constructions	These constructions, including Poly-Cotton Brushed Woven and Poly-Cotton Sheeting offer a dimensionally stable construction and provide less stretch and elongation.
Nonwoven Polyester Construction	This construction imparts more loft and uniform stretch between warp and fill than knits. For fabrication, nonwoven constructions offer a more balanced stretch when needed.
Abrasion Resistance*	Abrasion resistance is a measure of an upholstery’s wear-ability over a period of extended use. We use the Wyzenbeek #8 Cotton Duck double rub test, which is representative of denim. Wire screen testing can also be used and is a more aggressive abradant.
Indoor/Outdoor	Indicates suitability for use in a particular setting.
QUV Hours*	Indicates the ability of the fabric to withstand ultraviolet exposure and moisture. An important attribute that ensures product longevity in outdoor applications.
Regulatory Requirements	Those listed are commonly used to determine suitability for use according to local regulations. Consult the Regulatory Requirements section for more detail.
Chemical Resistance	OMNOVA’s PreFixx protective finish provides excellent chemical resistance, making PreFixx ideal for healthcare and high-end public environments where cleaners and disinfectants are continually used. Visit www.omnova.com/prefixx for more details.
Bleach Safe	A 10:1 bleach solution may be used on PreFixx coated fabrics without discoloration.
Biocompatibility	These products have been certified by third-party testing to not cause skin irritation, in accordance with ISO 10993-10: Tests for Irritation and Delayed-Type Hypersensitivity.
Adhesion*	Indicates the force necessary to pull the coating from the fabric backing.
Blocking Resistance	Indicates material that resists adhering to itself under specified conditions.
Tack Tear / Seam Strength	Indicates resistance to a seam tearing.
Tensile Strength*	Indicates the pulling force required to cause upholstery rupture.
Tear Strength*	This test indicates the force required to cause further tearing after the fabric has been cut. Our testing uses the trapezoid method.
W Flex*	This test exposes materials to repeated flexing to verify top finish adhesion and pliability.
Crocking Resistance*	Indicates the upholstery’s resistance to transferring color to another surface through rubbing action.
Fungal Resistance	Testing indicates the upholstery’s resistance to supporting fungi growth. These are not measures to support any public health claim.
Bacterial Resistance	Testing indicates the upholstery’s resistance to supporting bacterial growth. These are not measures to support any public health claim.
Cold Crack*	This test determines the temperature at which the upholstery maintains integrity and does not crack. Our method uses a 10# roller drawn over folded upholstery.
Hydrolysis Stability	Indicates the upholstery’s ability to maintain ascetic and mechanical performance attributes after humidity exposure.
Fit for Use	Upholstery selection should carefully consider the end application environment for the appropriate product attributes. It is important that the material characteristics align with the end-use environment up to and including cleaners and frequency of use to maintain the long-term performance of the upholstery.

* For a more in-depth explanation of test methods, consult standards issued by the **Chemical Fabrics and Film Association, Inc.** <https://www.cffaperformanceproducts.org/cffa-pages/publications.asp>

† The number of double rubs reported in product literature and on websites is often capped at 100,000 in accordance with agreed industry reporting standards. In this document, however, we provide the actual test results as they give an indication of the upholstery’s true level of abrasion resistance.

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Pattern	Brand	Weight (oz)	Material	Backing	Finish	Wyzenbeek Abrasion #8 Cotton Duck	Use (Indoor/Outdoor)	QUV Hours
Aerial	B	28	PVC	Polyester Terry Loop	PreFixx	1.3M	Indoor	650
All Star	B	32	PVC	Polyester Knit	PreFixx	1.3M	Indoor/Outdoor	650
Capitano®	N	30	PVC	Polyester Knit	Clear Vinyl	50K	Indoor/Outdoor	650
Cetacea	N	30	PVC	Polyester Knit	PreFixx	1.3M	Indoor/Outdoor	650
ColorGuard	B	36	PVC	Polyester Knit	PreFixx	1.3M	Indoor/Outdoor	650
ColorGuard NFR	B	36	PVC	Polyester Knit	PreFixx	1.3M	Indoor/Outdoor	650
Element	B	28	PVC	Polyester Terry Loop	PreFixx	1.3M	Indoor/Outdoor	650
Elysee	B/N	30	PVC	Polyester Knit	PreFixx	1.3M	Indoor/Outdoor	650
Fortress	B	26	PVC	Polyester Knit	Proprietary	30K	Indoor	650
Free Spirit	N	29	PVC	Polyester Knit	PreFixx	1.3M	Indoor/Outdoor	650
Grand Cayman	N	30	PVC	Polyester Terry Loop	PreFixx	1.3M	Indoor/Outdoor	650
Grand Sierra	B	36	PVC	Polyester Jersey Knit	PreFixx	1.3M	Indoor/Outdoor	650
Grand Sierra NFR	B	36	PVC	Polyester Jersey Knit	PreFixx	1.3M	Indoor/Outdoor	650
Heritage	B	28	PVC	Polyester Terry Loop	PreFixx	400K	Indoor/Outdoor	650
Laurel	B	28	PVC	Polyester Terry Loop	PreFixx	1.3M	Indoor/Outdoor	650
Levante	B	22	PVC	Polyester Nonwoven	PreFixx	1.3M	Indoor	650
Mariner	N	26.5	PVC-N	Polyester Nonwoven	PreFixx	1.3M	Indoor/Outdoor	650
Melange	B	28	PVC	Polyester Terry Loop	PreFixx	1.3M	Indoor	650
Nexus	N	26.5	PVC-N	Polyester Nonwoven	PreFixx	400K	Indoor/Outdoor	650
SofDura®	N	30	PVC	Polyester Knit	PreFixx	1.3M	Indoor/Outdoor	650
SofDura 26	N	26	PVC	Polyester Knit	PreFixx	1.3M	Indoor/Outdoor	650
Tidal Wave	N	30	PVC	Polyester Knit	PreFixx	1.3M	Indoor/Outdoor	650
Torino	N	29	PVC	Polyester Terry Loop	Urethane	100K	Indoor/Outdoor	650
Vegas	B	36	PVC	Polyester Jersey Knit	PreFixx	1.3M	Indoor/Outdoor	650
Venue	B	28	PVC	Polyester Terry Loop	PreFixx	1.3M	Indoor/Outdoor	650
Venue NFR	B	28	PVC	Polyester Terry Loop	PreFixx	1.3M	Indoor/Outdoor	650
Verde	B	28	PVC	Polyester Terry Loop	PreFixx	1.3M	Indoor	650
Vista	B	28	PVC	Polyester Terry Loop	PreFixx	1.3M	Indoor/Outdoor	650
Vista NFR	B	28	PVC	Polyester Terry Loop	PreFixx	1.3M	Indoor/Outdoor	650
Vivo	B	28	PVC	Polyester Terry Loop	PreFixx	1.3M	Indoor/Outdoor	650
Voyager	N	30	PVC	Polyester Knit	PreFixx	1.3M	Indoor/Outdoor	650
Weave	B	28	PVC	Polyester Terry Loop	PreFixx	1.3M	Indoor/Outdoor	650
Weave NFR	B	28	PVC	Polyester Terry Loop	PreFixx	1.3M	Indoor/Outdoor	650

Brand Key
B - Boltaflex | N - Nautolex

Material Key
PVC - Polyvinyl chloride | PVC-N - Unexpanded polyvinyl chloride

Coated Fabric Upholstery Specification Guide (continued)

Pattern	Adhesion #/in., min (CFFA-3) Warp, Fill	Tensile Strength lb., min (CFFA-14) Warp, Fill	Tack Strength lb., min (CFFA-14) Warp, Fill	Trap Tear Strength lb., min (CFFA-16c) Warp, Fill	W-Flex (CFFA-10)	Crocking Resistance (CFFA-7)	Chemical Resistance	Bleach Safe	Biocompatibility	Fungal Resistance (ASTM G-21)	Phthalate Free	No Flame Retardants	No Biocide	Cold Crack (CFFA-6a)
Aerial	4, 4	85, 75	35, 30	20, 27	•	•	•	•	•	•	•	•	•	-20 °F
All Star	3, 3	85, 75	35, 30	20, 20	•	•	•	•	•	•				-20 °F
Capitano®	3, 3	85, 75	35, 30	20, 20	•	•				•		•		-20 °F
Cetacea	3, 3	85, 75	35, 30	20, 20	•	•	•	•	•	•		•		-20 °F
ColorGuard	3, 3	110, 85	60, 30	25, 25	•	•	•	•	•	•				-20 °F
ColorGuard NFR	3, 3	110, 85	60, 30	25, 25	•	•	•	•	•	•		•		-20 °F
Element	4, 4	85, 75	35, 30	20, 27	•	•	•	•	•	•				-20 °F
Elysee	3, 3	85, 75	35, 30	20, 20	•	•	•	•	•	•		•		-20 °F
Fortress	5, 5	110, 71	50, 32	25, 21	•	•			•	•				-20 °F
Free Spirit	4, 4	85, 75	35, 30	20, 27	•	•	•	•	•	•				-20 °F
Grand Cayman	4, 4	85, 75	35, 30	20, 27	•	•	•	•	•	•		•		-20 °F
Grand Sierra	3, 3	110, 85	60, 30	25, 25	•	•	•	•	•	•				-20 °F
Grand Sierra NFR	3, 3	110, 85	60, 30	25, 25	•	•	•	•	•	•		•		-20 °F
Heritage	4, 4	85, 75	35, 30	20, 27	•	•	•	•	•	•	•			-20 °F
Laurel	4, 4	85, 75	35, 30	20, 27	•	•	•	•	•	•				-20 °F
Levante	4, 4	86, 88	56, 53	38, 38	•	•	•	•	•	•		•		-20 °F
Mariner	5, 5	96, 102	60, 60	40, 43	•	•	•	•	•	•		•		-20 °F
Melange	4, 4	85, 75	35, 30	20, 27	•	•	•	•	•		•	•	•	-20 °F
Nexus	5, 5	96, 102	60, 60	40, 43	•	•	•	•	•	•		•		-20 °F
SofDura®	3, 3	85, 75	35, 30	20, 20	•	•	•	•	•	•		•		-20 °F
SofDura 26	3, 3	60, 50	35, 30	15, 20	•	•	•	•	•	•		•		-20 °F
Tidal Wave	3, 3	85, 75	35, 30	20, 20	•	•	•	•	•	•	•	•	•	-40 °F
Torino	4, 4	85, 75	35, 30	20, 27	•	•	•	•	•	•				-25 °F
Vegas	3, 3	110, 85	60, 30	25, 25	•	•	•	•	•	•				-20 °F
Venue	4, 4	85, 75	35, 30	20, 27	•	•	•	•	•	•				-20 °F
Venue NFR	4, 4	85, 75	35, 30	20, 27	•	•	•	•	•	•		•		-20 °F
Verde	4, 4	85, 75	35, 30	20, 27	•	•	•	•	•		•	•	•	-20 °F
Vista	4, 4	85, 75	35, 30	20, 27	•	•	•	•	•	•				-20 °F
Vista NFR	4, 4	85, 75	35, 30	20, 27	•	•	•	•	•	•		•		-20 °F
Vivo	4, 4	85, 75	35, 30	20, 27	•	•	•	•	•	•				-20 °F
Voyager	3, 3	85, 75	35, 30	20, 20	•	•	•	•	•	•		•		-20 °F
Weave	4, 4	85, 75	35, 30	20, 27	•	•	•	•	•	•				-20 °F
Weave NFR	4, 4	85, 75	35, 30	20, 27	•	•	•	•	•	•		•		-20 °F

Regulatory Requirements

Pattern	Cal. Tech. 117	BIFMA, Class A	UFAC Fabric, Class 1	NFPA 701	FMVSS-302	IMO Part 8 Propane Flame	IMO Part 8 Smoldering Cigarette	Federal Specification CID A-A-2950A	Boston Fire Dept IX-1	NFPA 260	Port Authority of NY/NJ	FAR 25.853a & Appx F Pat 1 (a)(1)(ii)	ASTM E-84
Aerial	•	•	•							•			
All Star	•	•	•	•	•	•	•	•	•	•	•	•	Class A
Capitano®	•	•	•							•			
Cetacea	•	•	•							•			
ColorGuard	•	•	•	•	•	•	•	•	•	•	•	•	Class A
ColorGuard NFR	•	•	•			•	•			•			
Element	•	•	•	•	•	•	•	•	•	•	•	•	Class A
Elysee	•	•	•							•			
Fortress	•	•	•	•	•			•	•		•	•	
Free Spirit	•	•	•		•					•			
Grand Cayman	•	•	•		•	•	•			•			
Grand Sierra	•	•	•	•	•	•	•	•	•	•	•	•	Class A
Grand Sierra NFR	•	•	•			•	•			•			
Heritage	•	•	•	•	•	•	•	•	•	•	•	•	Class A
Laurel	•	•	•	•	•	•	•	•	•	•	•	•	Class A
Levante	•		•							•			
Mariner	•	•	•							•			
Melange	•	•	•							•			
Nexus	•	•	•							•			
SofDura®	•	•	•							•			
SofDura 26	•	•	•							•			
Tidal Wave	•	•	•							•			
Torino	•	•	•		•					•			
Vegas	•	•	•	•	•	•	•	•	•	•	•	•	Class A
Venue	•	•	•	•	•	•	•	•	•	•	•	•	Class A
Venue NFR	•	•	•			•	•			•			
Verde	•	•	•							•			
Vista	•	•	•	•	•	•	•	•	•	•	•	•	Class A
Vista NFR	•	•	•			•	•			•			
Vivo	•	•	•	•	•	•	•	•	•	•	•	•	Class A
Voyager	•	•	•										
Weave	•	•	•	•	•	•	•	•	•	•	•	•	Class A
Weave NFR	•	•	•			•	•			•			

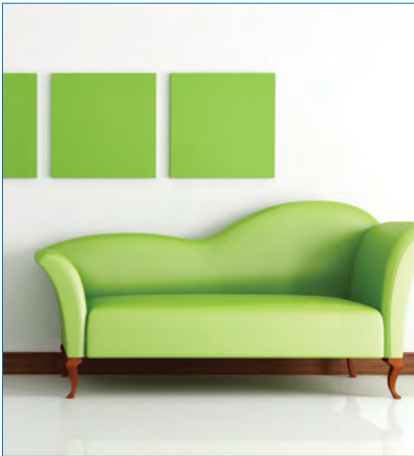
Trusted Brands

Boltaflex and **Nautolex** are long-trusted brands in the Coated Fabrics business. OMNOVA Solutions' brands define high performance in Contract: Office, Healthcare, Education, Hospitality and Marine environments. We offer a broad selection of colors and patterns. We are proud to introduce **Boltaflex Ethos™**, a collection of **Boltaflex** upholsteries that is free of phthalates, fire retardants (FR) and antimicrobials (MR) and **Tidal Wave™** anti-pinking technology in 2019.

Boltaflex. On-trend contract upholstery in vinyl constructions with our leading **PreFixx** protective finish or in polyurethane constructions. A broad range of colors and designs suit virtually any project in contract, hospitality, healthcare, office, food service and more.

Nautolex. The original synthetic marine upholstery, used in interior and exterior marine applications including seating, cabin topping, cabin headliner, exterior flooring and underliner. Available in vinyl constructions with **PreFixx** protective finish.

PreFixx protective finish from OMNOVA protects the integrity of beautiful designs. With easy cleanability, and proven stain, chemical and abrasion resistance, upholsteries with **PreFixx** reduce maintenance costs and extend useful life.



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