

WOVEN showcases the versatility of materials assembled through the practice of weaving. On display are over sixty examples from the Materials Lab library, representing a wide array of woven materials suitable for diverse applications. Woven materials are formed by the joining of two distinct sets of threads - a set of vertical yarns, the warp, and a set of horizontal threads, the weft - interlaced at right angles. Endless variation and complexity can be introduced to this simple starting point, producing results that vary in density, fineness, permeability, and structure.

PLAIN WEAVE | STAINLESS STEEL | MESH

Wire Mesh Fabric | McNichols | 02-057000-0074

This lightweight, plain weave, wire mesh fabric is fabricated in mill finish stainless steel and is available with 30-37% open area in 39-51+ gauge wire diameters. Wire mesh is strong enough to perform in industrial settings and aesthetically pleasing in architecture. It can be used in signage, railings, cabinets and plant screens.

PLAIN WEAVE | STAINLESS STEEL | MESH

Wire Mesh Fabric | McNichols | 02-057000-0105

This lightweight, plain weave, wire mesh fabric is fabricated in mill finish stainless steel and is available with 30-37% open area in 39-51+ gauge wire diameters. Wire mesh is strong enough to perform in industrial settings and aesthetically pleasing in architecture. It can be used in signage, railings, cabinets and plant screens.

PLAIN WEAVE | ALUMINUM AND STAINLESS STEEL | MESH

Wire Cloth | McNichols | 02-057000-0105

Lightweight metal mesh for interior and exterior industrial and architectural applications. Used in signs, railing infills, cabinet inserts, plant screens and wall systems.

PLAIN WEAVE | STEEL | MESH

Architectural Wire Mesh | Banker Wire | 02-057000-0600

Banker Wire's woven wire cloth can be used in industrial or architectural applications. The material is made through a cold-forming process, which results in higher strength, dimensional control, and a better surface finish. Of the steel that Banker Wire uses, 18% is from pre-consumer waste and 72% is from post-consumer waste.

PLAIN WEAVE | STAINLESS STEEL | MESH

Maglia | Materials, Inc. | 03-062600

A stainless steel, woven mesh that is moisture-resistant and suitable for interior or exterior use. Typically used in decorative applications such as wall coverings and partitions.

PLAIN WEAVE | SEA GRASS | FLOORING

Sea grass Rug | Clodan Carpets | 07-096800-766

Made from sea grass fiber harvested in Asian wetlands. Sea grass is rapidly renewable, and the reeds grow back quickly after harvest. The material is susceptible to mold and mildew growth when exposed to humidity, and is recommended for use as area rugs or wall-to-wall installation in dry, climate-controlled, interior settings only.

PLAIN WEAVE | FIBERGLASS | INSULATING TEXTILE

Highland Tweed | Johns Manville | 08-097700-0114

Finely woven fiberglass textile with thermal and acoustic properties, used in interior ventilation duct insulation.

PLAIN WEAVE | BAMBOO | WALL COVERING

Sonata Arrowroot | Schumacher | 08-097219-0752

Composed of bamboo reeds and straw sourced in East Asia, this natural wallpaper textile is suitable for interior use. It is often laminated to a backer such as MDF, adding standardization to the variability of bamboo.

PLAIN WEAVE | LEATHER & POLYPROPYLENE | FLOOR COVERING

Stark Carpets | 09-68-00

Woven rug made of leather and originates from India. The material composition is 80% leather and 20% polypropylene. Polypropylene, which is a thermoplastic polymer, adds durability to the rug, in addition to making it colorfast, mildew-resistant, and moisture-resistant.

PLAIN WEAVE | VINYL AND POLYESTER | INTERIOR TEXTILE

Vinyl Coated Polyester Fabric | Kova Textiles | 10-120515-0116

Woven textile composed of vinyl-coated yarn, which lends the product flexibility and durability. Suitable as window shades, space dividers, and hanging panels.

PLAIN WEAVE | POLYMER | FENCING

Beltech | Belton Industries, Inc. | 10-120517-0007

A woven geotextile for temporary applications, made of polypropylene. The fabric is used during the construction process as a silt fence, protecting adjacent water bodies from loose sediment. The product is colored for high-visibility.

PLAIN WEAVE | POLYETHYLENE | INDUSTRIAL TEXTILE

Duo Weave | Fabinn Company | 10-120517-0049

An industrial textile coated with polyethylene. Waterproof and suitable for exterior applications such as pool and truck covering. Its ability to block sunlight makes it effective in sunshade canopies.

PLAIN WEAVE | FIBERGLASS | INSULATION

Zetex 600 | Newtex Industries | 10-120517-0062

Heat resistant textile able to withstand temperatures of up to 1000° F, woven from textured fiberglass which provides strength, abrasion resistance, and thermal insulation. Used in safety apparel such as gloves and suits, welding blankets, and insulation pads. Lightweight acrylic coatings can be applied to improve moisture resistance.

PLAIN WEAVE | SILICA FIBERGLASS | INSULATING TEXTILE

Zetex Fiberglass Fabric | Newtex | 10-120517-0063

Military-grade fabric woven from highly textured silica yarn. The texturization process gives the fabric insulation qualities, making it a good choice for thermal applications. The product is commonly used to make safety gloves, blankets, high-temperature expansion joints, and insulation pads.

PLAIN WEAVE | CARBON AND KEVLAR | HIGH-DURABILITY FABRIC

Kevlar and Carbon Hybrid | Fibre Glast Developments Corp. | 10-120517-0069

A hybrid textile with a high strength-to-weight ratio, high conform-ability, impact-resistance, abrasion-resistance, dimensional stability, and fatigue resistance. Carbon fiber is used as the warp, and dyed Kevlar® as the weft. This textile is ideal for aerospace, auto, marine, and sporting goods applications.

PLAIN WEAVE | FIBERGLASS | TEXTILE

Glastex Fabric | JPS Composite Materials Corp. | 10-120517-0143

Composite glass fiber suitable for finishes. Its rot and mildew-resistant properties are useful for interior surface finishes such as walls, counter tops and cabinets.

PLAIN WEAVE | CARBON | CLOTH BANDAGE

Activated Carbon Cloth | Calgon Carbon | 10-120517-0154

This woven material is an activated carbon cloth used as a wound contact dressing to accelerate the healing process. Activated carbon is a porous form of carbon that removes organic compounds from liquids and gases through absorption. This textile is flexible, micro-porous, antimicrobial.

PLAIN WEAVE | GRASS AND REED | WINDOW SHADES

Conrad Shades | Conrad Imports, Inc. | 10-122400-0051

This handwoven window shade is made of bamboo poles interwoven with natural reeds and fibers from Asia. The product is mold and bacteria resistant, VOC-free, toxin-free, durable against light and heat exposure, and requires little maintenance. As the shade ages, the product develops a patina.

PLAIN WEAVE | POLYESTER, POLYCINYLCHLORIDE WINDOW TREATMENT

EuroVeil | Mechoshade Home Systems | 10-122400-0210

A thin, basket-weave textile composed of 15% polyester yarn and 85% PVC coating. The textile provides solar protection and glare prevention, while simultaneously allowing for views, with an openness factor of 5-6%. This product is UV-resistant, flame-resistant, bacteria-resistant, and easy to wash.

PLAIN WEAVE | POLYESTER AND HEMP | INTERIOR SCREEN

Bulu Field | Windochine | 10-122400-0224

This hand-woven scrim is composed of polyester, hemp, and bac bac. Hemp and bac bac are grasses native to East and Southeast Asia. This sheer, ultra-thin textile is produced by craftsmen according to traditional techniques such as hand-weaving and hand-finishing. Applications range from window treatments to screening devices.

PLAIN WEAVE | WOOL | CARPET

Multitone by Danskina | Maharam | 10-124853-0029

This rug was hand-woven by weavers in India, using 100% New Zealand wool in a flat-woven basket construction. By weaving together yarns of contrasting color and differing thicknesses, the pattern produces "statement pieces" suitable for both vertical and horizontal applications.

PLAIN WEAVE | POLYETHYLENE | SEPARATIVE TEXTILE

Mirafi X-Series | TenCate | 10-313200-002

A slit film geotextile made from flat tapes woven into a textile. The product provides moisture separation between structure and ground and is ideal for use in dry conditions.

PLAIN WEAVE | SILICA | INSULATION/CLOTHING

Newtex | 12-05-00

Composed of bamboo reeds and straw sourced in East Asia, this natural wallpaper textile is suitable for interior use. It is often laminated to a backer such as MDF, adding standardization to the variability of bamboo.

PLAIN WEAVE | GOAT HAIR | OUTDOOR SHELTER Traditional Bedouin Goat Wool Fabric | Private Collection of Yonit Kristal

Goat hair woven fabric used for cladding traditional Bedouin tents. Goat hair has unique qualities that makes it suitable for desert dwelling, such as its ability to react to changes in climate. In response to hot, dry air, fibers shrink to create small openings in the surface of the fabric, allowing air flow into and out from the tent. In the winter time, when humidity rises, the fibers swell up, increasing the density of the woven material and preventing water from entering.

PLAIN WEAVE | KERNEL | PACKING MATERIAL

Ballistic Wall Cover | Ortech Shielding Systems

Ballistic textile for interior walls and ceilings made of Aramid and cotton, capable of absorbing shock waves caused by missile explosions. After an explosion occurs, the textile stretches and redistributes pressure acting on the surface of the wall, preventing concrete and stone particles from penetrating the interior.

PLAIN WEAVE | COTTON, POLYESTER, POLYMER PERFORMANCE TEXTILE

Cubicle Health Care Fabrics | Knoll, Inc.

This highly durable textile is designed to be used in healthcare settings. As a result, it's bleach-cleanable, scrub-able, scuff-resistant, and acoustically neutral. It is certified for medium and heavy duty use in commercial areas and is commonly used for privacy curtains, upholstery, and wall-covering applications.

PLAIN WEAVE | ALUMINUM AND BRASS | MESH

Brillante Ottone | Materials, Inc.

An aluminum and brass, plain woven mesh, this textile is used in interior and exterior, decorative applications. Due to texturization of the metal weave, the simple weave of the product appears visually more complex, resembling a checkerboard.

PLAIN WEAVE | POLYESTER | PADDING

Highfield | Kvadrat

Padding made with polyester yarn, filled with polyurethane foam and suitable for upholstery and acoustic walls. Woven polyester threads give this material high resistance to abrasion.

PLAIN WEAVE | STAINLESS STEEL | MESH

Fuoco | Materials, Inc.

Woven wire mesh is fabricated from an array of intersecting wires, similar to a woven cloth. The wires are woven over and under the perpendicular wires producing rigid sheets in a variety of patterns. Suitable for interior or exterior applications.

PLAIN WEAVE | GLASS POLYMER | REINFORCEMENT

Glass Reinforcement | V. Fraas

3D high-performance grid made of alkali-resistant glass, used as a reinforcing material in concrete. The glass is corrosion-resistant, increasing durability of the composite material.

PLAIN WEAVE | COTTON AND POLYESTER | UPHOLSTERY

Angles | Scholten & Baijings

An jacquard upholstery textile made from polyester and cotton. The patched effect, created with a homogeneous material blend, is created using the jacquard weaving technique.

PLAIN WEAVE | E-GLASS POLYMER | IMPACT RESISTANT PANEL

FRP Ballistic Panel | OR-TECH

Ballistic panels used as interior and exterior wall coverings that provide protection from material fallout caused by explosions. A composite material made from a polymer matrix of fiber-reinforced plastic.

PLAIN WEAVE | STAINLESS STEEL | MESH

Colored River Inox | Materials, Inc.

This woven, stainless-steel textile is primarily used for interior cladding and finishes. The product is Class A1 fire-rated, moisture-resistant, and LEED certified.

PLAIN WEAVE | ARAMID AND COTTON | IMPACT RESISTANT TEXTILE

Ballistic Wall Cover | Ortech Shielding Systems

Ballistic textile for interior walls and ceilings made of Aramid and cotton, capable of absorbing shock waves caused by missile explosions. After an explosion occurs, the textile stretches and redistributes pressure acting on the surface of the wall, preventing concrete and stone particles from penetrating the interior.

LENO WEAVE | STAINLESS STEEL | MESH

Shimmer | GKD, USA | 02-057000-0222

Fine, stainless steel textile suitable for interior applications made from 35% post-industrial and 25% post-consumer recycled material.

LENO WEAVE | BRONZE | CLADDING AND PARTITIONS

Mandarin | GKD, USA | 02-057000-0058

Woven bronze fabric mesh that's flexible in two directions. This product can be used as exterior cladding or for interior partitions, ceiling and wall panels where light or air transmission is desired. Additionally, the textile is quite porous, with 37% of the surface area being open.

LENO WEAVE | BAMBOO AND STAINLESS STEEL | PARTITION

Native Bamboo Mesh | GKD, USA | 08-108200-0001

This composite mesh product is composed of stainless steel rods, woven with bamboo stem inserts. The product is appropriate for indoor or outdoor applications, and vertical or horizontal installation.

LENO WEAVE | GRASS AND NATURAL REED | WINDOW TREATMENT

Nikita | The Woven Company | 10-122400-0118

Each natural grass interior window shade is unique due to its fabrication from organic materials, allowing limited light to pass through while maintaining the free circulation of air. The product displays irregularities in color and shape, alluding to traditional Roman shades.

LENO WEAVE | TWIG | WINDOW TREATMENT

Khama Natural Shades | The Woven Company | 10-122400-0121

Interior window shades made from twig stems of various dimensions for the weft, and cotton thread as the warp. The density of the weave affects the spacing of the twig and the resultant openness of the surface.

LENO WEAVE | BAMBOO SILK | INTERIOR SCREEN

Bamboo Silk | Windochine | 10-122400-0223

This hand-woven scrim is composed of bamboo, a native grass in East and Southeast Asia. This sheer, ultra-thin textile is produced by craftsmen according to meticulous, traditional techniques such as hand-weaving and hand-finishing. Applications range from window treatments to screening devices.

LENO WEAVE | WOOL AND RAYON | FENCING

Woven Willow Fence | Safari Thatch | 10-323129-009

Made from thin willow twigs of varying diameters and lengths that are bound together to create traditional screens originally designed to provide protection for people and cattle from predators and poachers.

LENO WEAVE | STAINLESS STEEL AND JUTE | WIRE MESH

Spago | Materials, Inc.

Jute fiber has low thermal conductivity, high tenacity, and makes a good sound and heat insulation material. The combination of jute and stainless steel forms a durable product with high tactility that is suitable for interior partitions, and other decorative applications.

LENO WEAVE | STAINLESS STEEL | MESH

River | Materials, Inc.

This stainless steel textile is primarily used for interior cladding and finishes, and is variety in natural or colored finishes. The product is class A1 fire-rated, moisture resistant, and LEED certified.

LENO WEAVE | STAINLESS STEEL | MESH

River Inox | Materials, Inc. |

This woven, stainless-steel textile is primarily used for interior cladding and finishes. The product is Class A1 fire-rated, moisture-resistant, and LEED certified.

JAQUARD WEAVE | COTTON, NYLON , POLYESTER | UPHOLSTERY

Scholten & Baijings

A jacquard textile used for upholstery fabric applications, made from cotton and post-consumer recycled polyester. It is free of flame-retardant chemicals and certified as a low-emitting material.

JAQUARD WEAVE | YARN AND OPTICAL FIBER | DECORATIVE TEXTILE

Wheat Board | Kirei

Glowing fabrics made by blending optical fibers with fine yarns such as silk, cashmere, wool and linen. The fabrics are battery powered and fully customizable using jacquard weaves. Suitable for use in apparel, or interior applications such as partitions and wall coverings.

JAQUARD WEAVE | COTTON AND POLYESTER | UPHOLSTERY

Mesh | Maharam

A jacquard upholstery textile made from polyester and cotton. The patched effect, created with a homogeneous material blend, is created using the jacquard weaving technique.

FLAT WEAVE | NYLON | FLOORING

Metro II | Mohak | 07-096800-852

A commercial carpet with a dense face construction. Pile yarns interlaced into the foundation introduce a unique texture. Recyclable at the end of its life, this material is PVC-free, chlorine-free, and thermally insulating.

FLAT WEAVE | WOOL AND RAYON | FLOORING

Element | Scholten & Baijings

A handwoven rug with inherent texture and color variations, composed of 90% rapidly renewable materials including wool.

TWILL WEAVE | PVC+POLYESTER | WINDOW SHADES

Euro-twill | Mechoshade Home Systems | 10-122400-0069

Euro-twill is a reversible broken twill window sunshade composed of 85% PVC and 15% polyester yarn. It provides solar protection and glare prevention, while its transparency allows for views, with an openness factor of 3%, allowing very little light to pass through. This product is flame resistant, bacteria resistant and washable.

TWILL WEAVE | POLYESTER , POLYCYNYL CHLORIDE WINDOW TREATMENT

ThermoVeil | Mechoshade Home Systems | 10-122400-0091

This fabric is a technically advanced, basket-weave window sunshade composed of 24% polyester yarn, and 76% PVC for coating. The textile provides solar protection and glare prevention, while its transparency allows for views, with an openness factor of 10%. This product is UV-resistant, flame-resistant, bacteria-resistant, and easy to wash.