The US Air Force Medical Service (AFMS) has been delivering world class healthcare to the active duty community and its beneficiaries for more than 60 years, providing an integrated healthcare system that extends from forward deployed locations through definitive care.

The same quality of health care - and access to healthcare - is provided to all of our nearly three million beneficiaries to ensure total force personnel are healthy and fit before deploying, during deployment, and when they return home. We are committed to the very best health care for the Air Force, joint warfighters and their families.

To sustain work-class healthcare, and develop the next generation of US Air Force medics, it is paramount that we recruit, train, and retain the best and the brightest. Providing world class environments is a key component to this effort, and it is important to leverage all facets that shape the continuum of care including our facilities.

To meet this objective, it is AF/SG policy for Medical Group Commanders, Facility Managers, Contractors, Design Firms, and Design-Build Contractors to abide with the AFMS Interior Design Guide for Medical Treatment Facilities as a comprehensive reference document to achieve consistent and professional interior spaces which enhance and promote healing environments.
Mission Statement

To create consistent and professional interior spaces which enhance and promote healing environments of the U.S. Air Force Medical Facilities.
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Purpose of the Guide
- To be a companion document to UFC 4-510-01 or used as an independent resource in the creation of a comprehensive interior design package.
- Enhance and promote healing for clinic beneficiaries and caregivers by inspiring trust, confidence and credibility.
- Incorporate socially and environmentally conscious attributes, as well as evidence based design features.
- Identify progressive and innovative methodology for health facilities by recommending state of the art, sustainable products of dependability and quality to create a therapeutic atmosphere.

Aesthetics
- Finish and material palettes offer variety by developing collections that encompass both organic and geometric styles along with large, medium and small scale patterns and textures. The finish and material palettes include warm, cool and neutral tones.
- The overall design should promote natural light.
- Organize space, materials and wayfinding to be unified simple and understandable.
- Materials and products shall meet the level of quality established within the USAF Surgeon General Interior Design Guide and the UFC 4-510-01.

How to use the Guide
- The Air Force Interior Design Guide is provided in two different forms, a printed application and a web based application. 
- The website, http://www.wbdg.org/ccb/AF/AFIDG, contains the same information that is found in the printed forms. It is however, updated regularly and contains the most current information available for material finishes, lighting, artwork, furniture, and signage/wayfinding. This site should be used as the main source for the current information. The website also contains important links to the UFC 4-510-01, TRICARE guide plates and medical facility criteria information which is also available in downloadable documents.

Design Philosophy
- This design philosophy takes into account many different aspects of interior design and space planning including aesthetics, life safety, evidence based design and sustainable design. The design intent is to promote a healing, spa-like, nurturing medical atmosphere.

Life Safety/Accessibility
- Products specified are required to be Class A or Class 1, in accordance with the NFPA 101 Life Safety Code and meet the requirements in the UFC 4-510-01 and other applicable codes and standards.
- Application of materials and finishes comply with current ADA, ANSI, and UFAS requirements.
- Considernous, explicit and judicious incorporation of current best practices are to be considered and applied to renovation projects. Areas of emphasis include, but are not limited to, fire suppression systems, egress, HVAC and mass notification.
Sustainable Design
Supplement to the UFC 4-510-01
- Sustainable design takes into consideration the design, construction, operation and reuse/removal of the built environment in an environmentally and energy efficient manner. It works to meet the needs of today, without compromising the needs of future generations. Not only does sustainable design take into consideration the efficient use of natural resources, but it can lead to improved user performance, increased occupant desirability and better affordability. Overall, sustainable design creates high-performance buildings that are intended to be environmentally responsible, economically profitable, and healthy places for people to live and work.

Evidence Based Design
Supplement to the UFC 4-510-01
- Evidence-Based Design does not have to be an additional cost. It is a design process by which Architects, Interior Designers, Facility Managers, Clinicians, and Administrations make decisions that advance the needs of patients, staff, families, and organizations.

Elements of Evidence-Based Design Include:
- Natural Lighting and Daylighting – The use of natural light and daylighting in patient care is an important factor in patient recovery. This includes such departments as behavioral health as well as in-patient functions. When views to the outside are impossible, providing artwork with a serene landscape, plants, and water features all aid in the recovery process.
- Patient Privacy – Providing single patient rooms is one way to provide patient privacy. Single seat options in a waiting area also gives the patient a sense of privacy.
- Sound Control – Providing patients and staff with the ability to control the noise around them aids in recovery. This is easy to provide in patient rooms by designing headwalls with controls for lights, curtains, blinds, and televisions. Providing finishes and materials that absorb sound not only affects patients, but it also reduces medical errors by decreasing the stress on the staff.
- Spatial Disorientation – Providing adequate signage and other types of wayfinding helps reduce the stress of patients, staff, and family members.

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Disclaimer: Reference herein to any specific company, commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not constitute an endorsement, recommendation or favoring by the Air Force Medical Service. Listings in this interior design Guide are provided for information sharing purposes only, presented as examples and not intended to be a complete or exhaustive guide. There are a significant number of alternative systems in the industry which should be considered by a licensed/registered professional for the unique condition, situation/environment of work being proposed and inclusion/exclusion from this guide implies no endorsement or criticism of any source. The Air Force Medical Service has received no financial consideration, services, materials or endorsements from owners, agents, representatives, and/or parties holding interests of identified items listed.
FLOORING

Soft Surfaces     Resilient Surfaces     Hard Surfaces
GUIDING PRINCIPLES

Carpet
- Large-scale patterns are appropriate for use in large, public areas such as waiting, conference and training rooms. They can make a big impact on an open space.
- Medium-scale patterns are appropriate for use in smaller waiting areas, command suites and corridors.
- Small-scale patterns are appropriate for use in support offices and areas such as administrative staff offices.
- The use of solids should be limited as they have potential to show wear, soil and traffic pattern much faster than textured or patterned carpet.
- Carpet tile is a great selection for high traffic areas. When replacing carpet tile in the middle of a room or space, it should be replaced with an existing tile from the perimeter and the new tile placed in the perimeter spot. This will help the new tile to blend with the existing carpet in the space.
- The color selection of carpet is dependent on the current color scheme throughout the remainder of the space.
- If the space receives a lot of natural light, the use of darker colors is acceptable. In these areas, it is important to use a solution dyed nylon for the most colorfastness.
- Carpet should be specified based on the design of the space. The patterning of surrounding fabrics should be carefully considered and should not compete with the carpet.
- Carpet cushioning is highly recommended because it can increase the lifetime of the carpet, add dimensional stability and thickness, add acoustical and insulation benefits, and increase comfort and support.
- Carpeting is made up of various synthetic and natural fibers including; nylon, acrylic, olefin, and polyester. No olefin, wool, or less than type 6,6 nylon carpet fiber is acceptable in healthcare.

Guiding Principles:

Carpet
- Carpet seaming diagrams are required from the installer prior to procurement. This allows proper seaming and furniture placement throughout the space.
- Carpet backing should have an upgraded moisture guard or moisture-resistant backing system. It is recommended to use backings with a lifetime warranty to protect against delamination and edge raveling.
- Pile yarn weight is the ounces per square yard of the pile yarn. The higher the number, the more stability within the carpet.
- Carpet density is the closeness of the tufts and the amount of pile yarn in the carpet. In general, the denser the pile, the better the performance.

Walk-off Mats
- Walk-off mats should be addressed by 3 zones in climates where required. Zone 1 scrapes off mud, dirt, rocks, rain and snow. Zone 2 traps mud, dirt and snow from zone 1. Zone 3 helps to clean and dry shoes coming into the building. The zones should equal a total of 18’ in new construction, which includes both interior and exterior walk-off space. In existing buildings where space is tight, a minimum of 14’ is required.
- Roll-up mats are not the preferred choice, so when designing, consider recessed walk-off mats.

Linoleum
- Linoleum is a product made of natural materials that requires time to cure/air after installation.
- All linoleum is made from renewable raw materials including linseed oil, wood powder and pigments, thus making it an excellent sustainable option.
- One of linoleum’s natural characteristics is the tendency to “yellow” from high pH cleaning solutions that might not discolor other commercial resilient flooring.
- Prior to occupancy, linoleum requires a professional cleaning, per manufacturers requirements.

Rubber Flooring
- A shiny floor doesn’t necessarily mean a clean floor. Rubber Flooring should not be waxed, allowing for low maintenance costs, easy care and fewer pollutants in wastewater. Initially, however, rubber flooring does have a film that needs to be cleaned off.
- Rubber flooring is a high performance floor covering with excellent wear resistance for high traffic areas. Rubber flooring also helps absorb the impact and sound of foot and rolling traffic.
- Rubber flooring is a potential alternative to VCT. It has a durable surface with better life-cycle and cost effective maintenance.
- Rubber flooring is environmentally friendly and also contains antimicrobial benefits.
- Rubber flooring is resistant to chemicals and can withstand most solvents, diluted acids, and alkalies.
- Cushioned underlayments should be used in physical and occupational therapy areas to help absorb shock.
- Rolled rubber flooring is recommended over rubber tile.

Zone 1: Covered Exterior Walk
Zone 2: Vestibule
Zone 3: Interior Space

Walk-off Mat

USE PROPERTY-SIZED ENTRANCE MATS

Zone 1: Covered Exterior Walk
Zone 2: Vestibule
Zone 3: Interior Space

REFERENCE ADDITIONAL MATERIALS TO ENTRY AREA, AND OTHER WALK-OFF AREAS TO REDUCE THE AMOUNT OF DIRT, DIRT, ROCKS, SNOW, ET AL.

Flooring
Porcelain Tile
- Rectified tile is the process of precisely squaring the tile on all sides. This allows for narrow grout joints which is great for high traffic areas and restrooms.
- It is important to know and understand the shade variation for each tile. The higher the shade variation, the more color difference from tile to tile.
- It is recommended that polished surfaces not be used in any areas subject to water, oil or grease as they may become slippery.
- The COF (Coefficient of Friction) for floor tile should be less than .06 dry for accessible routes and .08 for ramps. For wet areas a .07 COF is recommended.
- Porcelain tile is tile constructed by dust pressed methods from porcelain clays resulting in a tile that is dense, impervious, fine grained and smooth, with a sharply formed face.
- Porcelain tiles have a low water absorption rate thus making them frost resistant.
- Full body porcelain tiles carry the color and pattern through the entire thickness of the tile making them virtually impervious to wear and suitable for any application from residential to the highest traffic commercial or industrial applications.
- Porcelain tiles are available in matte, unglazed or high polished finish.
- The use of polished tile should be limited, such as in borders and accents. Typically polished tile does not provide the appropriate COF to be used as a field tile causing slip/fall hazards when wet if used in a large area.
- Ceramic tile is usually suitable for very light to moderate traffic areas and generally has a relatively high water absorption rating, greater than 3% on average. This makes ceramic tile less frost resistant and more prone to wear and chipping than porcelain tile.

Stained Concrete
- Stained concrete is recommended for new construction only in the following areas: entrances, foyers, lobbies, vending areas, coffee bars, and restrooms.
- Both acid and water based concrete staining can be used on a concrete floor that is 14 days and older.
- Because each concrete surface is different, each application of stain will be distinctive and unique.
- Acid based stain is translucent and water based stain can be either translucent or opaque. This feature enables some of the imperfections of the concrete substrate to show through.
- Water based stain is recommended for low traffic areas, whereas acid based stain is recommended for high traffic areas.
- Both acid based and water based stained concrete should be sealed in order to ensure adequate protection of the finish.

Quarry
- Quarry tile is recommended for kitchens and food service areas for its durability.

Terrazzo
- Terrazzo flooring is a poured application and is therefore seamless.
- As a cementitious material, Terrazzo is by nature a hard surface and therefore is not a recommended material to be used in areas where long periods of standing will occur.
- Terrazzo is made up of a cementitious or resin base with a mixture of aggregates that can include rocks, marble, glass, or plastic.
- In most cases, terrazzo can be applied directly to concrete.

Value Engineering Options
- Environmentally Friendly Bio Based Composition Tile should only be considered as a flooring option when the budget does not allow for other flooring options shown in this guide. Manufacturers include Armstrong, Mannington, and Mohawk.

Specialty Flooring
- The use of vinyl wall base is not acceptable. Instead, vulcanized rubber is strongly recommended.
- Rubber wall base maintains a smooth and attractive appearance. It will not shrink, gap, or separate from the wall. It does not have to accommodate to room temperature before installation.
- Rubber stair treads are also recommended and are dimensionally stable and won’t shrink or separate compared with vinyl.

Guiding Principles:

Vinyl
- Vinyl has superior durability for high traffic areas at an affordable price point. It is, however, not a good sustainable choice.
- Rolled goods are recommended to prevent seaming.
- Vinyl has the ability to simulate other materials such as wood or stone, making it a great cost-effective choice.
- Vinyl is a homogeneous material, meaning it consists of one material all the way through.

Stained Concrete
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Value Engineering Options
- Environmentally Friendly Bio Based Composition Tile should only be considered as a flooring option when the budget does not allow for other flooring options shown in this guide. Manufacturers include Armstrong, Mannington, and Mohawk.
Manufacturer: Bentley Prince Street
Collection: Saturnia
Color: Ridursi

- Image A
  Pattern: Olistico 135853 506
  Tile Installation: Quarter Turn

- Image B
  Pattern: Pieno Di Vita 135853 509
  Tile Installation: Quarter Turn

- Image C
  Pattern: Terme 135853 508
  Installation: Broadloom Only

- Image D
  Pattern: Saturnia 135853 511
  Tile Installation: Quarter Turn, Monolithic

- Image E
  Pattern: Conatatto 135853 510
  Tile Installation: Quarter Turn, Monolithic

- Image F
  Pattern: Festa 135853 507
  Tile Installation: Quarter Turn, Monolithic

Collection Specifications for Tile
Dimensions: 18” x 18”
Construction: Tufted Tip-Sheared
Pile Density: 6708ozs./yd²
Yarn Content: Antron Legacy HRC cf nylon and Antron Brilliance of nylon, Piece Dye
Secondary Backing: NexStep Cushion Tile
Sustainable Info: CRI Green Label Plus
Note: These products all contribute to LEED Credits differently, please reference website for specifics.
* Note some patterns also come in broadloom.

Refer to manufacturer for warranty, testing and sustainability info.

Manufacturer: Bentley Prince Street
Collection: Saturnia
Color: Mollare

- Image A
  Pattern: Olistico 135853 512
  Tile Installation: Quarter Turn

- Image B
  Pattern: Pieno Di Vita 135853 515
  Tile Installation: Quarter Turn

- Image C
  Pattern: Terme 135853 514
  Installation: Broadloom Only

- Image D
  Pattern: Saturnia 135853 517
  Tile Installation: Quarter Turn, Monolithic

- Image E
  Pattern: Conatatto 135853 516
  Tile Installation: Quarter Turn, Monolithic

- Image F
  Pattern: Festa 135853 513
  Tile Installation: Quarter Turn, Monolithic

Specifications for Broadloom (Treme)
Dimensions: 12 ft. 6 in.
Pattern Repeat: 18-3/4 in. x 4-11/16 in.
Construction: Tufted Tip-Sheared
Pile Density: 6708ozs./yd²
Yarn Content: Antron Legacy HRC cf nylon and Antron Brilliance of nylon, Piece Dye
Secondary Backing: High Performance PC
Sustainable Info: CRI Green Label Plus
Note: These products all contribute to LEED Credits differently, please reference website for specifics.

Refer to manufacturer for warranty, testing and sustainability info.

ReEntry: Bentley Prince Street will reclaim any carpet product, broadloom or carpet tile, from any manufacturer and dispose of it the most environmentally responsible way.

All standard Bentley Prince Street products are certified climate neutral.
Manufacturer: Shaw Contract Group

Collection: Silk
Color: Lanna
Image A
Pattern: Yarn Accent Tile 59440-0120
Tile Installation: Quarter-Turn, Monolithic, Ashlar

Image B
Pattern: Yarn Tile 59433-0120
Tile Installation: Quarter-Turn, Monolithic, Ashlar

Image C
Pattern: Weave Accent Tile 59442-0120
Tile Installation: Quarter-Turn, Monolithic, Ashlar

Image D
Pattern: Weave Tile 59434-0120
Tile Installation: Quarter-Turn, Monolithic, Ashlar

Image E
Pattern: Mosaic 5A082-0120
Installation: Broadloom
Pattern Repeat: 1.2"W x 1.3"L

Image F
Pattern: Weave 5A081-0120
Installation: Broadloom
Pattern Repeat: 18"W x 3'L Random

Collection Specifics for Tile
Dimensions: 24" x 24"
Construction: Multilevel Pattern Cut/Loop
Yarn Content: Antron Legacy Nylon, Yarn Dyed
Secondary Backing: EcoWorx
Sustainable Info: CRI Green Label Plus, LEED Credit EQ4.3

Note: These products all contribute to LEED Credits differently, please reference website for specifics.

Manufacturer: Shaw Contract Group

Collection: Silk
Color: Gold Leaf
Image A
Pattern: Yarn Accent Tile 59440-0120
Tile Installation: Quarter-Turn, Monolithic, Ashlar

Image B
Pattern: Yarn Tile 59433-0120
Tile Installation: Quarter-Turn, Monolithic, Ashlar

Image C
Pattern: Weave Accent Tile 59442-0120
Tile Installation: Quarter-Turn, Monolithic, Ashlar

Image D
Pattern: Weave Tile 59434-0120
Tile Installation: Quarter-Turn, Monolithic, Ashlar

Image E
Pattern: Mosaic 5A082-0120
Installation: Broadloom
Pattern Repeat: 1.2"W x 1.3"L

Image F
Pattern: Weave 5A081-0120
Installation: Broadloom
Pattern Repeat: 18"W x 3'L Random

Collection Specifics for Broadloom
Dimensions: 12 ft.
Construction: Multilevel Pattern Cut/Loop
Yarn Content: Antron Legacy Nylon, Piece Dyed
Secondary Backing: EcoWorx Performance Broadloom (Minimum of 150 square yards.)
Sustainable Info: CRI Green Label Plus, LEED Credit EQ4.3

Note: These products all contribute to LEED Credits differently, please reference website for specifics.

Manufacturer: Shaw Contract Group

Collection: Silk
Color: Hill Tribe
Image A
Pattern: Yarn Accent Tile 59440-0120
Tile Installation: Quarter-Turn, Monolithic, Ashlar

Image B
Pattern: Yarn Tile 59433-0120
Tile Installation: Quarter-Turn, Monolithic, Ashlar

Image C
Pattern: Weave Accent Tile 59442-0120
Tile Installation: Quarter-Turn, Monolithic, Ashlar

Image D
Pattern: Weave Tile 59434-0120
Tile Installation: Quarter-Turn, Monolithic, Ashlar

Image E
Pattern: Mosaic 5A082-0120
Installation: Broadloom
Pattern Repeat: 1.2"W x 1.3"L

Image F
Pattern: Weave 5A081-0120
Installation: Broadloom
Pattern Repeat: 18"W x 3'L Random

Collection Specifics for Broadloom
Dimensions: 12 ft.
Construction: Multilevel Pattern Cut/Loop
Yarn Content: Antron Legacy Nylon, Piece Dyed
Secondary Backing: EcoWorx Performance Broadloom (Minimum of 150 square yards.)
Sustainable Info: CRI Green Label Plus, LEED Credit EQ4.3

Shaw Government Customer Specialist:
1-800-356-7429
Manufacturer: Shaw Contract Group
Collection: Silk
Color: Lanna

Manufacturer: Shaw Contract Group
Collection: Silk
Color: Gold Leaf

Manufacturer: Shaw Contract Group
Collection: Silk
Color: Hill Tribe
Manufacturer: Tandus
Collection: Tea Leaf
Color: Pacific
*Image A*
Pattern: Kura 30387-01114AFC07 (Crossley)
Installation: Broadloom
*Image B*
Pattern: Ikasu 30386-01114AFC10 (Crossley)
Installation: Broadloom
*Image C*
Pattern: Onsen 30388-01114AFC01 (Crossley)
Installation: Broadloom
*Image D*
Pattern: Chado 30385-01114AFC04 (Crossley)
Installation: Broadloom
*Image E*
Pattern: Asaba 02694-21114AFC13 (C&A)
Installation: Quarter-Turn, Monolithic, Ashlar, Broadloom 6’ Roll, Vinyl Backed
*Image F*
Pattern: Haiku, Miso 02127-23011AFC16
Tile Installation: Quarter-Turn, Ashlar, Monolithic

Collections Specifics for Tile
Dimensions: 18” x 18”, 24” x 24”, 36” x 36”
Construction: Stratatec Patterned Loop
Yarn Content: Dynex SD Nylon, Solution Dyed
Secondary Backing: ER3® RS
Sustainable Info: CRI Green Label Plus
Note: These products all contribute to LEED Credits differently, please reference website for specifics.

Manufacturer: Tandus
Collection: Tea Leaf
Color: Sea Salt
*Image A*
Pattern: Kura 30387-01113AF009 (Crossley)
Installation: Broadloom
*Image B*
Pattern: Ikasu 30386-01113AFC12 (Crossley)
Installation: Broadloom
*Image C*
Pattern: Onsen 30388-01113AFC003 (Crossley)
Installation: Broadloom
*Image D*
Pattern: Chado 30385-01113AFC06 (Crossley)
Installation: Broadloom
*Image E*
Pattern: Asaba 02694-21113AFC15 (C&A)
Installation: Quarter-Turn, Monolithic, Ashlar, Broadloom 6’ Roll, Vinyl Backed
*Image F*
Pattern: Haiku, Soba 02127-23012AFC17
Tile Installation: Quarter-Turn, Ashlar, Monolithic

Collections Specifics for Broadloom
Dimensions: 12 ft...
Construction: Tufted Pattern Cup and Loop
Yarn Content: Dynex SD Nylon, Solution Dyed
Secondary Backing: LifeLong Backing
Sustainable Info: CRI Green Label Plus
Note: These products all contribute to LEED Credits differently, please reference website for specifics.
Manufacturer: Nora
Collection: Noraplan Environcare
Scheme: Accent
- Image A
  Color: 2949 Sage
- Image B
  Color: 2942 Evening Bloom
- Image C
  Color: 2948 Veiled Dusk
- Image D
  Color: 2967 Driftwood
- Image E
  Color: 2940 Hyacinth
- Image F
  Color: 2964, Sunlit Sedum

Note: Matching base and stair tread options available from manufacturer.

Manufacturer: Nora
Collection: Noraplan Environcare
Scheme: Neutral
- Image A
  Color: 2967 Moor Grass
- Image B
  Color: 2931 Smoky Fennel
- Image C
  Color: 2930 Windflower
- Image D
  Color: 2784 Silver Crown
- Image E
  Color: 2963 Sandbar Willow
- Image F
  Color: 2944 Lotus Flower

Manufacturer: Johnsonite
Collection: Triumph
Scheme: Cushioned Back
- Image A
  Color: Thickett 729
  Surface Texture: Hammered, Weathered (Weathered is a special order with a minimum order quantity of 250 sq. ft.)
  Sizes: 24" x 24" - Standard Square Edge Tiles
  23.5" x 23.5" - Special Order Interlocking Tiles
  Thickness: 3/8" (9.5 mm)

Sustainable Info: Manufactured with more then 50% recycled material.

Manufacturer: Nora
Collection: Noraplan Environcare
Scheme: Cushioned Back
- Image A
  Color: 2949 Sage
  Style: Environcare
  Sizes: 49.2' x 28", 24" x 24", 39.39' x 48", 26.3' x 48";
  Depending on color, please see manufacturers website for more information.
  Thickness: 2.0mm, 3.0mm, 3.5mm;
  Depending on color, please see manufacturers website for more information.

Sustainable Info: GREENGUARD Indoor Air Quality Certified.

Note: Cushioned back should be used for physical therapy/occupational therapy only.

Refer to manufacturer for warranty, testing and sustainability info.
Manufacturer: Nora
Collection: Noraplan Environcare
Scheme: Accent

Manufacturer: Nora
Collection: Noraplan Environcare
Scheme: Neutral

Manufacturer: Johnsonite
Collection: Triumph
Scheme: Cushioned Back
Chinchilla
Color: LP097 Chinchilla
Weld Rod: W1790
Sizes: 6'-7" wide roll goods
Thickness: 0.08 in, 0.10 in, 0.125 in; See
manufacturer's website for more information

Sustainable Info: FloorScore Certified;
LEED Credits: EQ4.3, MR4.0, MR6.0

Color: LP089 Lava
Weld Rod: W1789

Color: LP091 Mushroom
Weld Rod: W1791

Color: LP001 Pearl
Weld Rod: W1701

Color: LP090 Pumice Gray
Weld Rod: W1790

Color: LP050 Silver Gray
Weld Rod: W1250

Chinchilla
Collection: Marmorette
Scheme: Accent

Collection: Marmorette
Scheme: Neutral

Color: LP098 Fool's Gold
Weld Rod: W1796
Sizes: 6'-7" wide roll goods
Thickness: 0.08 in, 0.100 in, 0.125 in; See
manufacturer's website for more information

Sustainable Info: FloorScore Certified;
LEED Credits: EQ4.3, MR4.0, MR6.0

Color: LP066 Oak Brown
Weld Rod: W1262

Color: LP096 Obsidian
Weld Rod: W1791

Color: LP023 Serene Blue
Weld Rod: W1223

Color: LP002 Nickel
Weld Rod: W1701

Color: LP090 Pumice Gray
Weld Rod: W1790

Color: LP044 Aleutian Green
Weld Rod: W1244

Color: 795 Butter
Sizes: 6'-6" wide roll goods
Tile Size: 13" x 13", 20" x 20"
Thickness: 0.10 in.

Sustainable Info: Made from renewable raw
materials.

Color: 624 Steel Grey

Color: 435 Slate Green

Color: 707 Barley

Color: 810 Flax

Color: 412 Cool Green

Refer to manufacturer for warranty, testing and sustainability info.
Manufacturer: Armstrong
Collection: Marmorette
Scheme: Neutral

Manufacturer: Armstrong
Collection: Marmorette
Scheme: Accent

Manufacturer: Forbo
Collection: Marmoleum Dual
Manufacturer: Amtico
Collection: Stripwood

*Image A*
Color: W745 American Cherry
Tile Sizes: 3" x 36", 4-1/2" x 36", 6" x 36", (Other sizes available on request)
Thickness: 2.5mm/100mil thick with bevelled edges, (Unbevelled also available)

*Image B*
Finish: W684 Maple

*Image C*
Finish: W699 Teak

*Image D*
Finish: W700 Cherry

*Image E*
Finish: W706 Light Cherry

*Image F*
Finish: W599 Washed Teak

Note: Flooring must be laid randomly like an actual hardwood floor.

Manufacturer: Amtico
Collection: Stone

*Image A*
Color: SL79 Autumn Slate
Tile Sizes: 12" x 12", 18" x 18", 12" x 18", (Other sizes available on request)
Thickness: 2.5mm/100mil thick with bevelled edges, (Unbevelled also available)

*Image B*
Color: SN96 Norwegian Slate Silver

*Image C*
Color: OL21 Oriental Slate Lead

*Image D*
Color: OL27 Oriental Slate Brown

*Image E*
Color: PH40 Philippine Tan

*Image F*
Color: AU44 Australian Sandstone

Manufacturer: Amtico
Collection: Molten & Linear

*Image A*
Color: LA33 Linear Graphite
Tile Sizes: 12" x 12", 18" x 18", (Other sizes available on request)
Thickness: 2.5mm/100mil thick with bevelled edges, (Unbevelled also available)

*Image B*
Color: CN77 Stained Concrete

*Image C*
Color: CN91 Stained Concrete

*Image D*
Color: CN34 Concrete Medium

*Image E*
Color: LA42 Linear Mocha

*Image F*
Color: LA15 Linear Vanilla

Note: Flooring must be laid randomly like an actual hardwood floor.

Refer to manufacturer for warranty, testing and sustainability info.
Manufacturer: Amtico
Collection: Stripwood

Manufacturer: Amtico
Collection: Stone

Manufacturer: Amtico
Collection: Molten & Linear

FLOORING

Vinyl
Vinyl

**Manufacturer:** Armstrong  
**Collection:** Medintech & Tandum

1. **Image A**  
   - Color: 88432 Pumice Stone  
   - Weld Rod: W0105  
   - Style: Medintech  
   - Sizes: 6'-6” wide roll goods  
   - Thickness: 0.080” Overall  
   - 0.020” Wear Layer  

   Sustainable Info: FloorScore certified; LEED Credit EQ4.3

2. **Image B**  
   - Color: 88464 Natural Gray  
   - Weld Rod: W0426

3. **Image C**  
   - Color: 88416 Almond  
   - Weld Rod: W0177

4. **Image D**  
   - Color: 88465 Shoreline  
   - Weld Rod: W0670

5. **Image E**  
   - Color: 88412 Oatmeal  
   - Weld Rod: W0411

6. **Image F**  
   - Color: 88476 Ixia  
   - Weld Rod: W0410

**Manufacturer:** Armstrong  
**Collection:** Perspectives

1. **Image A**  
   - Color: 33213 Canyon Gold  
   - Weld Rod: W0743  
   - Style: Perspectives  
   - Sizes: 6'-7” wide roll goods  
   - Thickness: 0.080” Overall  
   - 0.020” Wear Layer

   Sustainable Info: FloorScore certified; LEED Credit EQ4.3

2. **Image B**  
   - Color: 33205 Smoked Gray  
   - Weld Rod: W0739

3. **Image C**  
   - Color: 33200 Antiqued Metal  
   - Weld Rod: W0734

4. **Image D**  
   - Color: 33204 Weathered Sand  
   - Weld Rod: W0738

5. **Image E**  
   - Color: 33214 Quarry Stone  
   - Weld Rod: W0744

6. **Image F**  
   - Color: 33203 Brushed Concrete  
   - Weld Rod: W0737

**Manufacturer:** Armstrong  
**Collection:** Natural Creations Arbor Art

1. **Image A**  
   - Color: TP015 Oiled Teak Dark  
   - Style: Traditional  
   - Sizes: Plank 4x36, 6x36, 8x36 depending on color, see manufacturers website for more information.  
   - Thickness: 0.125” Overall  
   - 0.020” Wear Layer

   Sustainable Info: FloorScore certified; LEED Credit EQ4.3

2. **Image B**  
   - Color: TP014 Oiled Teak Medium

3. **Image C**  
   - Color: TP009 Warm Beech Dark

4. **Image D**  
   - Color: TP008 Warm Beech Medium

5. **Image E**  
   - Color: TP011 Wild Cherry Dark

6. **Image F**  
   - Color: TP010 Wild Cherry Medium

Refer to manufacturer for warranty, testing and sustainability info.
<table>
<thead>
<tr>
<th>Manufacturer: Armstrong</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collection: Perspectives</td>
</tr>
<tr>
<td>Collection: Medintech &amp; Tandum</td>
</tr>
<tr>
<td>Collection: Natural Creations Arbor Art</td>
</tr>
</tbody>
</table>
**Image A**
- **Product:** Schluter-RENO-T
- This transition strip is designed to provide transitions between existing same-height, hard-surface floor coverings (e.g., ceramic tile or natural stone, parquet flooring, concrete pavers, laminate, etc.), primarily in retrofit applications.
- **Options:** Stainless steel, solid brass, anodized aluminum.

**Image B**
- **Product:** Schluter-SCHIENE
- This transition strip is designed to provide edging for tile coverings. Typical applications include edge protection where tile is bordered by carpet, at expansion joints, or as a decorative edging for stairs.
- **Options:** Stainless steel, solid brass, aluminum, anodized aluminum.

**Image C**
- **Product:** Schluter-RENO-Ramp
- This transition strip provides a gradual transition between tiled surfaces and lower adjoining floor coverings. Ideal for commercial applications where wheel carts are used.
- **Options:** Anodized aluminum.

**Manufacturer:** Roppe
- **Collection:** Rubber Wall Base
- **Image A**
  - **Style:** Vulcanized Rubber
  - **Color:** P122 Natural
  - **Sizes:** 4-1/2", 6"
  - **Profile Options:** Standard Cove
  - **Note:** All colors are inherent throughout the base.
  - **Sustainable Info:** PVC Free; LEED Credit MR5.1, 5.2, 6.

**Image B**
- **Color:** P125 Fig

**Image C**
- **Color:** P194 Burnt Umber

**Image D**
- **Color:** P178 Pewter

**Image E**
- **Color:** P191 Camel

**Image F**
- **Color:** P140 Fawn

**Manufacturer:** Schluter
- **Collection:** Transition Strips
- **Image A**
  - **Product:** Schluter-RENO-T
  - This transition strip is designed to provide transitions between existing same-height, hard-surface floor coverings (e.g., ceramic tile or natural stone, parquet flooring, concrete pavers, laminate, etc.), primarily in retrofit applications.
  - **Options:** Stainless steel, solid brass, anodized aluminum.

**Image B**
- **Product:** Schluter-SCHIENE
- This transition strip is designed to provide edging for tile coverings. Typical applications include edge protection where tile is bordered by carpet, at expansion joints, or as a decorative edging for stairs.
- **Options:** Stainless steel, solid brass, aluminum, anodized aluminum.

**Image C**
- **Product:** Schluter-RENO-Ramp
- This transition strip provides a gradual transition between tiled surfaces and lower adjoining floor coverings. Ideal for commercial applications where wheel carts are used.
- **Options:** Anodized aluminum.

**Schluter Customer Service:**
- 1-800-472-4588

Refer to manufacturer for warranty, testing and sustainability info.
Manufacturer: Roppe  
Collection: Rubber Wall Base

Manufacturer: Roppe  
Collection: Stair Treads & Textures

Manufacturer: Schulter  
Collection: Transition Strips
Refer to manufacturer for warranty, testing and sustainability info.

Manufactur er: Crossville Tile
Collection: Empire Series Unpolished

Image A
Color: VS80 Corsican Creme UP
COF: dry > 0.6, wet > 0.6
Sizes: 1"x1", 1"x2", 1"x3", 1"x7", 14"x14", 14"x28", 20"x20"
Thickness: 5/16", 3/8"
Trim: Bullnose, Cove Base, Inside & Outside Cove Base Corners

Image B
Color: VS85 General’s Gray UP

Image C
Color: VS87 Empress Silver UP

Image D
Color: VS88 Crown Dore UP

Image E
Color: VS79 Elba Night UP

Image F
Color: VS89 Napoleon Blue UP

Note: Porcelain tile is the preferred finish for flooring. Glazed or non-glazed tiles are recommended on walls to help maintain a clean restroom. Although the UFC4-510-01 may indicate sheet vinyl for some restroom spaces, porcelain tile shall be provided. Providing tile cove base is preferred for easier cleaning.

Manufactur er: Crossville Tile
Collection: Empire Series Polished

Image A
Color: VS80 Corsican Creme PO
COF: dry > 0.6, wet > 0.6
Sizes: 1"x1", 1"x2", 1"x3", 1"x7", 14"x14", 14"x28", 20"x20"
Thickness: 5/16", 3/8"
Trim: Bullnose, Cove Base, Inside & Outside Cove Base Corners

Image B
Color: VS85 General’s Gray PO

Image C
Color: VS87 Empress Silver PO

Image D
Color: VS88 Crown Dore PO

Image E
Color: VS79 Elba Night PO

Image F
Color: VS89 Napoleon Blue PO

Manufactur er: Crossville Tile
Collection: Color Blox 1 & 2

Image A
Color: A1123 Hi-Ho Silver
COF: dry > 0.8, wet > 0.6
Sizes: 3"x3", 6"x6", 6"x12", 12"x12", 12"x18", 18"x18"
Thickness: 1/4", 3/8"
Trim: Bullnose, Bullnose Right & Left Corner, Cove Base, Cove Base Right & Left Corner

Image B
Color: A1114 Tree House

Image C
Color: A1117 I See The Moon

Image D
Color: A1107 Mud Pie

Image E
Color: A1122 Goldilocks

Image F
Color: A1125 I’ve Got The Blues

Refer to manufacturer for warranty, testing and sustainability info.
Specialty FLOORING

Manufacturer: Scofield Systems
Collection: Lithocrome Chemstain (Concrete Stain)

Image A
Color: 6007 Wheat Grain
Description: Penetrates and permanently stains new or existing concrete and cementitious toppings and wears only as the concrete wears.

Image B
Color: 1516 Devon Brown

Image C
Color: 1406 Old Hickory

Image D
Color: 1750 Evergreen

Image E
Color: 2626 Light Gray

Image F
Color: 2047 Autumn Honey

Note: Multiple applications intensify colors. Infinite multicolored effects can be achieved by either layering the colors or applying the stains over other Scofield coloring systems or colored cementitious toppings. For best results in large areas, professional quality, acid-resistant hand-pump sprayers are recommended.

Manufacturer: Wausau Tile
Collection: Terrazzo Tile

Image A
Color: TG2225-L18
Description: Contains blends of white matrix with amber and charcoal mix glass.
Size: 11-13/16" x 11-13/16" x 1/2"
Sustainable: 100% recycled glass products, 33% by weight.

Image B
Color: WRR111-L18
Description: Contains a variety of sizes and shapes of aggregate within each tile that creates a "back to nature" look in both color and shape.
Finish: Factory ground & polished or brushed finish.
Sizes: 11-13/16" x 11-13/16" x 1/2" & 5/8", 15-13/16" x 15-13/16" x 5/8", 23-13/16" x 23-13/16" x 7/8"

Image C
Color: WRR108-L18

Image D
Color: TG2225-L18
Description: Contains blends of white matrix with amber and blue glass.

Image E
Color: WRR101-L18

Image F
Color: WRR112-L18

Manufacturer: Daltile
Collection: Quarry Tile

Image A
Color: 0Q60 Beige
Sizes: 8" x 8", 6" x 6", 4" x 8"
Thickness: 1/2"
Trim: Bullnose, Cove Base, Cove Base Inside & Outside Corner
Shade Variation: Medium (V2)

Image B
Color: 0Q14 Tempest Gray

Image C
Color: 0Q62 Bronze

Image D
Color: 0Q63 Dawn

Image E
Color: 0Q12 Arid Gray

Image F
Color: 0Q45 Golden Flash

Collection: Terrazzo Tile
Manufacturer: Wausau Tile

Collection: Lithocrome Chemstain
Manufacturer: Scofield Systems

Collection: Quarry Tile
Manufacturer: Daltile

Collection: Lithocrome Chemstain
Manufacturer: Scofield Systems

Collection: Quarry Tile
Manufacturer: Daltile

Collection: Lithocrome Chemstain
Manufacturer: Scofield Systems

Collection: Quarry Tile
Manufacturer: Daltile
Specialty Collection: Quarry Tile
Manufacturer: Daltile

Specialty Collection: Terrazzo Tile
Manufacturer: Wausau Tile

Specialty Collection: Lithocrome Chemstain (Concrete Stain)
Manufacturer: Scofield Systems
Guiding Principles:
Paint & Specialty Paint

Paint
- It is strongly recommended to use paints that give off low to no VOC (Volatile Organic Compounds) and do not off-gas.
- An eggshell paint finish is recommended instead of a flat paint finish in most applications. Eggshell is easier to clean, maintain and match when patching.
- Lighter paint colors are recommended over dark paint colors as they hide smudges better.
- A level 4 finish for drywall is required along with one coat of primer and two top coats of paint.
- The use of the orange peel finish is not acceptable.
- Tile is the preferred wall finish for restrooms. However, on any non-tiled restroom walls, epoxy paint should be used.
- An oil based, gloss finish should be used when painting metal door frames.
- The use of the orange peel finish is not acceptable.

Specialty Paint
- Specialty paints offer a variety of textures and are used to hide wall imperfections and marks.
- Specialty paints may be used in high traffic areas that receive lots of abuse to wall surfaces and require lots of maintenance.
- Multi-color paint finishes can be difficult to patch due to their unique finish and texture. Therefore, a certified professional painter is required to perform the patch.

Guiding Principles:
Ceramic Tile
- Ceramic tiles are used for both wall and floor applications. They are softer and easier to cut than porcelain tile and come in a variety of different types and styles.
- Ceramic tiles are generally made from red or white clay fired in a kiln. They are almost always finished with a durable glaze that protects the color and pattern.
- Ceramic tile can have a matte or glossy glaze, but a matte glaze is recommended.
- Ceramic tile is, on average, a more affordable option in comparison to porcelain tile of the same size and shape.

Glass Tile
- Glass tile is to be used only as an accent on walls. When installing glass tiles, make sure the mastic is applied properly so it does not show through the tile.

Grout
- When selecting grout color, for both ceramic and glass tile, consider colors that are close to the color of the tile. Avoid using white grout as it will show stains and dirt easier than a darker color.

Wall Coverings
- Wall coverings can provide better acoustics in a space, add texture to a wall, and should not be used on exterior walls.
- Natural and non-vinyl wall coverings are breathable, resulting in less problems with moisture.

Corner Guards
- Corner guards are recommended to run floor to ceiling unless matching a handrail height of a maximum of 36” A.F.F. (above finish floor).
- It is recommended that the color of the corner guard either match the color of the wall or the color of the base or handrail.
- Recessed corner guards provide a cleaner look than surface mounted corner guards. They also allow for easy replacement of corner guards by reusing the same armature.

Handrails/ Crashrails
- In-patient facilities require handrails or crashrails to be on both sides of the corridor.
- Clinics, where corridors are not greater than 6’ wide, handrails or crashrails are only required on one side of the corridor.
- Handrails are available with or without a crash guard. They are also available in a variety of colors and materials and should be selected based on other finishes used throughout the space.

Guiding Principles:
Wall Protection & Specialty

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Manufacturer: Sherwin Williams
Collection: Base Colors

Image A
Color: Rare Gray SW 6199

Image B
Color: Mindful Gray SW 7016

Image C
Color: Requisite Gray SW 7023

Image D
Color: Intellectual Gray SW 7045

Image E
Color: Clary Sage SW 6178

Image F
Color: Macadamia SW 6142

Sustainable Paint Option:
ProGreen 200
- Low VOC, 50g/l
- Low odor
- Meets or exceeds GS-11 standards
- Can be applied in occupied areas
- Economical solution for new commercial construction
- Available in Primer, Flat, Egg-Shell, and Semi-Gloss

Refer to manufacturer for warranty, testing and sustainability info.

Manufacturer: Sherwin Williams
Collection: Accent Colors

Image A
Color: Underseas SW 6214

Image B
Color: Empire Gold SW 0012

Image C
Color: Naval SW 6244

Image D
Color: Link Gray SW 6200

Image E
Color: Backdrop SW 7025

Image F
Color: Artichoke SW 6179

Sustainable Paint Option:
Harmony
- Low odor and no-VOC formula
- Long-term durability
- Highest indoor air quality ratings
- Can be applied in occupied rooms without causing disruption
- Meets or exceeds GS-11 criteria for coatings used in LEED certified buildings
- Anti-microbial — inhibits growth of mildew
- Silica-free
- Primer available

Refer to manufacturer for warranty, testing and sustainability info.

Manufacturer: Sherwin Williams
Collection: Accent Colors

Image A
Color: Meditative SW 6227

Image B
Color: Golden Fleece SW 6388

Image C
Color: Softened Green SW 6177

Image D
Color: Useful Gray SW 7050

Image E
Color: Analytical Gray SW 7051

Image F
Color: Reddened Earth SW 6053

Collection: Accent Colors
Collection: Base Colors
Manufacturer: Sherwin Williams
Manufacturer: Sherwin Williams
Manufacturer: Sherwin Williams
Collection: Accent Colors
Collection: Base Colors
Collection: Accent Colors

Refer to manufacturer for warranty, testing and sustainability info.
Sustainable: Scuffmaster paints meet the requirements for low VOC content as defined by the Green Seal Standard GS-11 found in LEED.
Manufacturer: Scuffmaster
Collection: Ambient Metallic

Manufacturer: Scuffmaster
Collection: Armor

Manufacturer: Scuffmaster
Collection: Smooth Pearl

WALLS
Speciality Paint
Manufacturer: Maharam
Collection: Effect

**Image A**
- Pattern: Effect 398550
- Color: 003 Mica
- Application: Wall, Upholstered Walls
- Content: 56% Polyolefin, 44% Polyester
- Finish/Backing: Stain resistant, Acrylic
- Width: 54" (137cm)

Sustainable Info: Environmentally Improved
Manufacturing Process: Solution-dyed product

**Image B**
- Pattern: Effect 398550
- Color: 002 Birch
- Application: Wall, Upholstered Walls
- Content: 58% Polyolefin, 42% Polyester
- Finish/Backing: Stain resistant, Acrylic
- Width: 54" (137cm)

Refer to manufacturer for warranty, testing and sustainability info.

Manufacturer: Maharam
Collection: Inox

**Image A**
- Pattern: Inox Structure 398980
- Color: 006 Region
- Application: Walls, Upholstered Walls
- Content: 57% Polyolefin, 43% Polyethylene
- Finish/Backing: Stain resistant, Acrylic
- Width: 54" (137cm)

Sustainable Info: Environmentally Improved
Manufacturing Process: Solution-dyed product

**Image B**
- Pattern: Inox Structure 398980
- Color: 010 Salve

**Image C**
- Pattern: Inox Structure 398980
- Color: 013 Clay

**Image D**
- Pattern: Inox Basket 399000
- Color: 006 Amaganset
- Content: 72% Polyethylene, 28% Polyolefin

**Image E**
- Pattern: Inox Basket 399000
- Color: 007 Sift

**Image F**
- Pattern: Inox Basket 399000
- Color: 008 Breeze

Refer to manufacturer for warranty, testing and sustainability info.

Manufacturer: Carnegie
Collection: Xorel

**Image A**
- Color: Quarry 6619 W96
- Application: Walls, Panels, Upholstery
- Content: 100% IFR Xorel
- Durability: Qualifies for heavy duty contract use, 1,000,000 double rubs
- Sustainable Info: Free of PVC, Chlorine, Plasticizers, Heavy Metals, Ozone Depleting Chemicals, Topical Finishes and Dioxin Extremely Low VOCs, Anti Bacterial, Safely Disposable

**Image B**
- Color: Quarry 6619 W97

**Image C**
- Color: Quarry 6619 W98

**Image D**
- Color: Link 6623 W152

**Image E**
- Color: Link 6623 W154

**Image F**
- Color: Link 6623 W156

Collection: Inox
Manufacturer: Carnegie

**Image A**
- Color: Quarry 6619 W96
- Application: Walls, Panels, Upholstery
- Content: 100% IFR Xorel
- Durability: Qualifies for heavy duty contract use, 1,000,000 double rubs
- Sustainable Info: Free of PVC, Chlorine, Plasticizers, Heavy Metals, Ozone Depleting Chemicals, Topical Finishes and Dioxin Extremely Low VOCs, Anti Bacterial, Safely Disposable

**Image B**
- Color: Quarry 6619 W97

**Image C**
- Color: Quarry 6619 W98

**Image D**
- Color: Link 6623 W152

**Image E**
- Color: Link 6623 W154

**Image F**
- Color: Link 6623 W156

Refer to manufacturer for warranty, testing and sustainability info.
Manufacturer: American Olean
Collection: Bijou De Verre & Candalara Glass
- **Image A**
  - Color: BV22-Cream Soda
  - Style: Bijou De Verre
  - Sizes: 3/4"x3/4" Field Tile Mesh-mounted on 12"x12" Sheets
  - Thickness: 5/32"
  - Grout Joint Recommendation: 1/8"
- **Image B**
  - Color: CL51-Silver Lake
  - Style: Candalara Glass
- **Image C**
  - Color: CL53-Cinnamon Spice
  - Style: Candalara Glass
- **Image D**
  - Color: CL54-Black Pearl
  - Style: Candalara Glass
- **Image E**
  - Color: BV36-Butterscotch
  - Style: Bijou De Verre
- **Image F**
  - Color: BV34-Silver
  - Style: Bijou De Verre

Manufacturer: Crossville
Collection: Glass Blox
- **Image A**
  - Color: G086 Desert Dawn
  - Surface/Texture: Solids, Blends
  - Sizes: 1"x1", 1/2"x2", 1/2"x6", 2"x4", 4"x4" Field Tile Mesh-mounted on 12"x12" Sheets
  - Thickness: 1/4"
  - Sustainable Info: These products all contribute to LEED Credits differently, please reference website for specifics.
- **Image B**
  - Color: G153 Coffee
- **Image C**
  - Color: G154 Latte
- **Image D**
  - Color: G074 Blue Haze
- **Image E**
  - Color: G076 Ocean Air
- **Image F**
  - Color: G082 Olive Mist

Manufacturer: Daltile
Collection: Maracas Glass
- **Image A**
  - Color: Butternut P655
  - Finish: Frosted & Glossy
  - Sizes: 1"x1" Field Tile Mesh-mounted on 12"x12" Sheets
  - Thickness: 5/16"
  - Grout Joint Recommendation: 1/8"
- **Image B**
  - Color: Green Leaf P661
- **Image C**
  - Color: Mushroom P653
- **Image D**
  - Color: Honeycomb P651
- **Image E**
  - Color: Lake Shores P665
- **Image F**
  - Color: Wistera P658

Refer to manufacturer for warranty, testing and sustainability info.
Manufacturer: Daltile
Collection: Neutrals, Matte

Image A
Color: 0732 Uptown Taupe
Sizes: 6”x6”, 4-1/4”x4-1/4”, 3”x6”
Thickness: 5/16”
Grout Joint Recommendation: 1/16”
Shade Variation: V1 (Low)

Image B
Color: K775 Biscuit

Image C
Color: 0709 Architect Gray

Image D
Color: 0766 Element Tan

Image E
Color: 0799/U799 Pearl White

Image F
Color: 0182 Suede Gray

Manufacturer: Daltile
Collection: Light Accent, Matte

Image A
Color: 1452 Cypress
Sizes: 6”x6”, 4-1/4”x4-1/4”, 3”x6”
Thickness: 5/16”
Grout Joint Recommendation: 1/16”
Shade Variation: V1 (Low)

Image B
Color: 0148 Spa

Image C
Color: 0141 Garden Spot

Image D
Color: 0169 Water Fall

Image E
Color: 0142 Luminary Gold

Image F
Color: 0160 Cornsilk

Manufacturer: American Olean
Collection: Dark Accent, Matte

Image A
Color: K189 Navy
Sizes: 6”x6”, 4-1/4”x4-1/4”, 3”x6”
Thickness: 5/16”
Grout Joint Recommendation: 1/16”
Shade Variation: V1 (Low)

Image B
Color: 0744 Artisan Brown

Image C
Color: Q094 Chianti

Image D
Color: Q090 Pumpkin Spice

Image E
Color: Q093 Fire Brick

Image F
Color: 1452 Cypress

Refer to manufacturer for warranty, testing and sustainability info.
Manufacturer: Daltile
Collection: Neutrals, Matte

Manufacturer: Daltile
Collection: Light Accent, Matte

Manufacturer: Daltile
Collection: Dark Accent, Matte
Collection: Wall Protection

Wall Protection

Manufacturer: C-S Group

- Style: HRW-32A/SThe newest handrail/crashrail offers designers high style and practically all in one 4-3/4" high profile.
- Specify HRW-32A for aluminum rail or HRW-32S for stainless. Metal rails can be powder coated in seven finishes.

Manufacturer: C-S Group

- Style: HRWS-6CThe sleek HRWS-6C combines the warmth of wood with stainless steel end caps and brackets for maximum aesthetics. The stainless steel end caps, brackets and optional splices can be powder coated. Wood caps also available.

Manufacturer: C-S Group

- Style: SM-20, Surface MountedThe original "shock absorbing" corner guard prevents unsightly damaged corners. The SM-20 (1/4" radius) and SM-10 (1" radius) are 3" corner guards with snap on covers. Optional horizontal reveals are available for SM-20.

Manufacturer: C-S Group

- Style: FS-20, RecessedThe FS-20 corner guards offer designers a 3" sharp nose, custom "built-in" appearance that is completely flush to the wall surface. The retainers attach directly to the drywall and are feathered in to achieve a flush appearance.
Acoustical Ceiling Tiles & Grid Systems  Specialty Systems
**Guiding principles: Acoustical Ceiling Tiles & Grid Systems**

Acoustical Ceiling Tiles and Grid Ceilings

- Acoustical ceiling tile systems may be used in many spaces including offices, exam rooms, corridors, restrooms, training rooms, conference rooms, break rooms, and treatment rooms.
- Grid systems are useful and practical for ceilings that require maintenance.
- The edges of cut tiles should be painted to blend with the rest of the ceiling.
- It is necessary for grid tiles to be cut properly so they lay in the grid correctly.
- Acoustical ceiling tile systems offer a high level of NRC and CAC. For private spaces such as offices and Exam Rooms, the NRC should be 0.70 and the CAC 35.
- Acoustical ceiling tiles’ non-directional pattern offers fast and efficient installation.
- Fine-textured, non-perforated and non-fissured designs offer a highly desired aesthetic.
- Grids may be based upon 2’x2’ size, which shall be calculated dependent upon the size of the space.
- Acoustic ceiling tile systems can accommodate most types of lighting including lay-in fluorescent fixtures, recessed cans, track and pendant lighting.
- Smooth finish acoustical ceiling tiles show finger prints easier than a textured ceiling product such as a fissured ceiling tile.

Clean Room Ceiling Tile Systems

- Vinyl faced products meet USDA (United States Department of Agriculture) and FSIS (Food Safety and Inspection Service) requirements for food processing and clean room environments up to Class 100.
- Clean room ceiling panels are required in labs.

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**Guiding principles: Metal & Wood**

Metal 3-Dimensional Panels

- Metal 3-D ceiling panels punctuate flat ceiling planes with rhythm and depth, and create eye catching focal points.
- 3-D panels are mostly used in lobbies or waiting areas, these panels fill large volumes of space beautifully. They should not be used in areas where the ceiling is low or the space is limited.
- Luminous panels may be backlit with fluorescent fixtures or integrated with standard lay-in fixtures.
- Dropped pendant lighting can easily be integrated with 3-Dimensional panels.
- Metal 3-D ceilings are comprised of lightweight aluminum panels and are available in custom colors to allow for design diversity.

Wood Panels

- Wood panels provide a rich, tailored look for ceilings in various spaces.
- The warmth and beauty of wood can be used to create interest and comfort within multiple types of rooms.
- Wood panels offer a great opportunity to absorb and control noise.

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**Guiding principles: Back-Lit Murals & Specialty Systems**

Back-Lit Murals

- Back-lit murals are most often used in spaces such as exam, treatment and imaging rooms.
- These murals should be photos of relaxing scenes to provide a calm atmosphere and a nice image for the patient to focus on while receiving treatment. Each image shall be appropriate for the space and the patient.
- Back-lit murals and other overhead ceiling treatments shall be purchased and applied professionally. Do not go to a local copy store with images and try to create and install your own.

Specialty Systems

- Specialty systems can be made up of a variety of materials such as architectural resins, glass, wood and laminates.
- These ceilings should be used to designate specific spaces and create visual interest within a space.
- Specialty systems also aid in controlling noise and light within a space.
Manufacturer: Armstrong
Collection: ACT, Metal & Wood

Image A
Style: Ultima Tegular
Material: Wet-Formed Mineral Fiber with DuraBrite Acoustically Transparent Membrane
Dimensions: 1'x2', 2'x2', 4'x3/4'; Edge: Beveled Tegular 15/16''

Image B
Style: Fine Fissured Tegular
Material: Wet-Formed Mineral Fiber
Dimensions: 2' x 2' or 4' x 5/8'' or 3/4'', Angled Tegular 15/16''

Image C
Style: 868 Clean Room VL (Unperforated - Class 5)
Material: Wet-Formed Mineral Fiber
Dimensions: 2'x2x5/8'', Square Lay-in 15/16''

Image D
Style: Effects Wood Looks
Color: Maple

Image E
Style: Woodworks
Color: Constants, Maple

Image F
Style: Infusions
Color: Clear Arbor

Refer to manufacturer for warranty, testing and sustainability info.
SkyCeilings are photographic illusions of real skies that fit into standard ceiling grid systems. Luminous SkyCeilings feature fluorescent or LED lighting that illuminate the translucent images from behind.

Note: The product provides a great deal of flexibility and options, please refer to manufacturer for more information.
SPECIALTY FINISHES

Resins & Wall Panels  Wallcoverings  Solid Surface
Guiding principles:
Resins & Stand-off Hardware

**Resins**
- Architectural resin patterns can be created using organic or man-made materials pressed into resin. There is also the option of printing images on architectural resin, making it unique to the space.
- Possible applications of resins include: reception desks, privacy separations, counters, walls, decorative ceilings, signage, and stair rails.
- Resins can be used as a wall material or as a backlit accent material.
- Resins are available in many custom options, but as with any custom material, lead times must be considered.

**Stand-off Hardware**
- There is a variety of stand-off hardware available for resin applications depending on intent and use of resin.
- Standoff support systems provide versatile, elegant solutions for attaching architectural resins to a wide variety of substrates. These materials can include wood, concrete, steel studs, gypsum, and aluminum framing systems.

Guiding principles:
Solid Surface

**Solid Surface**
- Solid surfaces are a durable material that won’t chip, resist stains and can be buffed to remove stains or scratches.
- Solid surfaces can be cut into any shape or size and can have penetrations routed in the surface to accommodate sinks and other items.
- Solid surfaces are the preferred material at wet locations such as break room sinks, lab counters, and restrooms.
- Acrylic solid surface materials are resistant to some acids and chemicals found in labs and pharmacies making it the desired choice for these areas.

**Laminate**
- Laminates are a cost effective solution to solid woods, metals, or other surfaces. Laminates can provide a nice finished look to vertical and horizontal surfaces as they can be applied to a wide variety of materials and can be made to look like a variety of finishes.

Guiding principles:
Dry-Erase Wall Coverings

**Dry-Erase Wall Coverings**
- Dry-Erase wall coverings can be used as a clean and practical alternative to glossy marker boards as well as serve as a virtually seamless projection screen for applications that do not require an embossed surface.
- Dry-Erase boards are ideal in conference and training rooms.
- Many colors of Dry-Erase wall coverings are available including metallic.
- Style options include grids, lines, as well as a magnet backing.
- Dry-Erase wall coverings can be used to cover existing chalkboards or white boards.
Manufacturer: Luminor
Collection: Neutrals, Colorways, Metals, Botanicals

Image A
Pattern: Avanti
Collection: Neutrals

Image B
Pattern: Olive Mesh Moire
Collection: Colorways

Image C
Pattern: Silver Spun
Collection: Metals

Image D
Pattern: Pearl Milan
Collection: Colorways

Image E
Pattern: Natural Leaves
Collection: Botanicals

Image F
Pattern: Beach Grass
Collection: Botanicals

Manufacturer: 3-Form
Collection: Varia

Image A
Product: Light Blue Crush
Color: N/A
Gauge: 3/8"/10mm
Front & Back Finish: Patent

Image B
Product: Belgo Mezzo BB
Color: Aqua
Gauge: 1/4"/6mm
Front Finish: Patina
Back Finish: Sandstone

Image C
Product: Sada
Color: N/A
Gauge: 1/8"/3mm
Front & Back Finish: Sandstone

Image D
Product: Cirrus
Color: N/A
Gauge: 1/8"/3mm
Front & Back Finish: Sandstone

Image E
Product: Structured Bamboo
Color: N/A
Gauge: 1/4"/6mm
Front & Back Finish: Sandstone

Image F
Product: Lunar
Color: N/A
Gauge: 1/4"/6mm
Front Finish: Supermatte
Back Finish: Sandstone

Collection: Colors

Image A
Color: Sand

Image B
Color: Papaya

Image C
Color: Celery

Image D
Color: Pacific

Image E
Color: Ribbon

Image F
Color: Aluminum Silver 2

Sustainable: Made with EcoResin

Refer to manufacturer for warranty, testing and sustainability info.
Manufacturer: Lumicor
Collection: Neutrals, Colorways, Metalics, Botanicals

Manufacturer: 3-Form
Collection: Varia

Manufacturer: 3-Form
Collection: Colors

SPECIALTY FINISHES
Resins & Wall Panels
Digital murals can create individual solutions for any installation. They can be applied to a variety of substrates such as type 1 & 11 paper, type 11 vinyl, canvas, fabric and more.

Mineral composite panels are a modular panel that aligns in horizontal and vertical repetitions. This allows the “module” to be applied to any interior wall for a continuous sculptural surface.

Wallcoverings® wall coverings are an alternate option to traditional chalkboards. They are perfect for educational environments, conference rooms, training facilities, retail settings, and graphic design environments.
Manufacturer: DuPont
Collection: Zodiaq & Corian

Image A
Color: Antique Pearl
Material: Zodiaq

Image B
Color: Fossil
Material: Zodiaq

Image C
Color: Slate
Material: Zodiaq

Image D
Color: Sandstone
Material: Corian

Image E
Color: Storm Grey
Material: Corian

Image F
Color: Astral Pearl
Material: Corian

Manufacturer: Formica
Collection: Classics, Traditions, Signature & Basic Elements

Image A
Color: Night Mist 302
Size: 30” x 145”, 36” x 145”, 1/2” Thick

Image B
Color: Greentea Concrete 602
Size: 30” x 145”, 36” x 145”, 1/2” Thick

Image C
Color: Natural Concrete 603
Size: 30” x 145”, 36” x 145”, 1/2” Thick

Image D
Color: Real Concrete 605
Size: 30” x 145”, 36” x 145”, 1/2” Thick

Image E
Color: Tawny Agate 743
Size: 30” x 145”, 36” x 145”, 1/2” Thick

Image F
Color: Moss Spex 903
Size: 30” x 145”, 1/2” Thick

Manufacturer: Avonite
Collection: Studio

Image A
Color: Cottonwood K1-6600
Finish: Satin 01/06

Image B
Color: Cement K3-8425
Finish: Satin 10/05

Image C
Color: Pistachio K3-8450
Finish: Satin 12/04

Image D
Color: Saffron K3-8410
Finish: Satin 07/05

Image E
Color: Cozumel K3-8575
Finish: Satin 01/05

Sustainable: SCS Certified Recycled Products
Manufacturer: DuPont
Collection: Zodiaq & Corian

Manufacturer: Formica
Collection: Classics, Traditions, Signature & Basic Elements

Manufacturer: Avonite
Collection: Studio
Guiding Principles:

Overhead Lighting

- The goal of lighting is to create spaces that feel natural, provide visual comfort and maximize people's productivity.
- Daylighting can save energy and result in positive health effects among staff and patients. Therefore, electric lighting should be used judiciously and in non-clinical windowed spaces, daylight dimming systems should be used.

- Ergonomics in lighting is understanding how people see. It is about keeping every space feeling bright and natural. It is about providing even illumination to the architecture, while doing everything possible to minimize the energy used to light the space.

Overhead Lighting

- Overhead lighting should be used in all spaces to provide general illumination.
- Prismatic lighting should only be used in uninhabited spaces, such as staff corridors and storage rooms.
- As a cost effective option, parabolic troffers can be used on the non-public administration spaces.

Task Lighting

- Task lighting is mainly used to illuminate an area where a specific task must be accomplished. This is often achieved with fixtures that direct light onto a work surface. Task lights can be used for reading, writing, examining, and any other activities where a significant amount of light is required.
- Task lighting should be carefully chosen and specified to address the desired task and to accent the surrounding decor.
- Floor lamps and table lamps can both perform the duties of task lighting. Under cabinet, exam and desk lights are also considered task lighting.
- Task lighting fixtures achieve the needs of the user without wasting energy trying to illuminate the entire space.
- When using task lighting, the light source or bulb must be directed away from the users viewing angle so as to reduce direct glare. Two sources for task lighting should be used if possible to reduce “hot spots” and eliminate shadows.

- Decorative lighting can consist of chandeliers, pendants, sconces, and light strips. Any light fixture that focuses the user's attention and adds character to the room is considered to be decorative.
- Energy efficiency should be a consideration when designating decorative light fixtures. Because decorative light fixtures are not used to provide a direct source of light, they should utilize as little energy as possible.
- Decorative lighting is used to complement the surrounding area and is usually seen in public areas such as lobbies, waiting areas, and restrooms.
Overhead LIGHTING

Manufacturer: Ledalite
Collection: Pure FX, Verge, In-Cove II

- **Image A**
  Collection: Pure FX
  Style: Direct/Indirect Fluorescent Recessed Light
  Size: 2' x 4'

- **Image B**
  Collection: Pure FX
  Style: Direct/Indirect Fluorescent Recessed Light
  Size: 1' x 4'

- **Image C**
  Collection: Pure FX
  Style: Direct/Indirect Fluorescent Recessed Light
  Size: 2' x 2'

- **Image D**
  Collection: Verge
  Style: Direct/Indirect Fluorescent Suspended Light

- **Image E**
  Collection: Verge
  Style: Direct/Indirect Fluorescent Wall Mounted Light
  Daylight sensor available

- **Image F**
  Collection: In-Cove II
  Style: Indirect Fluorescent Cove Light

Light Technology from Ledalite is MesoOptics which allows for superior visual comfort by delivering uniform brightness with exceptional glare control.

Refer to manufacturer for warranty, testing and sustainability info.

Manufacturer: Peerless
Collection: Peerless, Lightedge, Lightfoil 2

- **Image A**
  Collection: Lightedge® I/D
  Style: Direct/Indirect Fluorescent Wall Mounted Light
  Size: 4', 8', 12'
  Options: Indirect (solid), Indirect/Open (slots), Indirect/Direct (louver)

- **Image B**
  Collection: Lightedge® I/D
  Style: Direct/Indirect Fluorescent Suspended Light
  Size: 4' & 8'

- **Image C**
  Collection: Lightedge® I/D
  Style: Direct/Indirect Fluorescent Suspended Light
  Size: 4', 8', 12'

- **Image D**
  Collection: Lightfoil® 2
  Style: Indirect Wall Mounted Fluorescent
  Size: 35' x 12', 45' x 12', 57' x 12', 69' x 12'
  Finishes: White, Silver, or Bronze

- **Image E**
  Collection: Lightedge® I/D
  Style: Direct/Indirect Fluorescent Wall Mounted Light
  Size: 4', 8', 12'

- **Image F**
  Collection: Parallels™
  Style: 4' and 5'. Fixtures mount to 4' grid.

Refer to manufacturer for warranty, testing and sustainability info.

Manufacturer: Lithonia Lighting
Collection: Avante

- **Image A**
  Collection: Avante
  Model: AV/SMTAVSM
  Style: Direct/Indirect Fluorescent Suspended or Surface Mounting
  Size: 1' Wide; 2', 4', or 8' Long

- **Image B**
  Collection: Avante
  Model: 2AV
  Style: Direct/Indirect Fluorescent Recessed Light
  Size: 2' x 4'

- **Image C**
  Collection: Avante
  Model: AV
  Style: Direct/Indirect Fluorescent Recessed Light
  Size: 1' x 2' & 1' x 4'

- **Image D**
  Collection: Avante
  Model: AV Asymmetric
  Style: Direct/Indirect Fluorescent Recessed Light
  Size: 1' x 2' & 1' x 4'

- **Image E**
  Collection: Avante
  Model: AVSR
  Diffuser: Perforated
  Width 14.75' x Depth 5.1875' x Length 14.75'

- **Image F**
  Collection: Avante
  Model: AVSP
  Diffuser: Perforated
  Width 10.8125' x Depth 3.9375' x Length 10.8125'

Options for Images B, C, & D Include:
- Solid, Slotted, and Perforated Diffusers
- Symmetric, Asymmetric, or Side mounted Diffusers

Refer to manufacturer for warranty, testing and sustainability info.
Manufacturer: Ledalite
Collection: Pure FX, Verge, In-Cove II

Manufacturer: Peerless
Collection: Peerless, Lightedge, Lightfoil 2

Manufacturer: Lithonia Lighting
Collection: Avante

LIGHTING
Overhead
Manufacturer: Tech Lighting
Collection: Mini Taza

Image A
Collection: Mini Taza
Style: Blown glass shade with intensely twisted rich glass color.
Mounting Options: Available for Free Jack, Mono Rail, Two-Circuit Mono Rail, and Kable Lite.
Color: Blue-green
Finish: Antique bronze, chrome, satin nickel.
Lamp: Low-voltage 50 watt halogen bi-pin lamp.

Image B
Collection: Mini Taza
Color: Amber

Image C
Collection: Mini Taza
Color: White

Image D
Collection: Mini Taza
Color: Red

Image E
Collection: Mini Taza
Color: Cream

Image F
Collection: Mini Taza
Color: Brown

Manufacturer: Tech Lighting
Collection: Echo

Image A
Collection: Echo
Vivid glass shade over a white case glass cylinder, highlighted with three satin nickel details. Includes six feet of field-cuttable clear stream™ cable (custom lengths available).
Color: Aquamarine
Finish: Antique bronze, Satin Nickle, and White.
Lamp: 120 volt, 75 watt medium base-A19 lamp.

Image B
Collection: Echo
Color: Smoke

Image C
Collection: Echo
Color: Havana Brown

Image D
Collection: Echo
Color: Clear

Image E
Collection: Echo
Color: Amber

Image F
Collection: Echo
Color: Red

Manufacturer: Tech Lighting
Collection: Baco

Image A, B & C
Collection: Baco Style: Baco 5 SP
Color: White & Clear
Diffuser: Blown Glass
Size: 4.75” DIA. x 11.5” H Overall DIA. 14”
Lamp: Incandescent

Image D
Collection: Baco
Color: White & Clear
Diffuser: Blown Glass
Lamp: Incandescent

Image E & F
Collection: Baco Style: Baco SC
Color: White & Clear
Diffuser: Blown Glass
Size: 7.75” DIA. x 19.75” H
Lamp: Incandescent

Manufacturer: Hampstead
Collection: Baco

Refer to manufacturer for warranty, testing and sustainability info.
Manufacturer: Tech Lighting
Collection: Mini Taza

Manufacturer: Tech Lighting
Collection: Echo

Manufacturer: Hampstead
Collection: Baco
Manufacturer: Hampstead
Collection: Aliza

Image A
Collection: Aliza  Style: Aliza PD
Diffuser: Parchment
Size: 8" DIA. x 11.5" H
Lamp: Incandescent or Fluorescent

Image B
Collection: Aliza  Style: Aliza F/Lamp
Diffuser: Parchment
Size: Base 10.25" x 10.25" Lamp 9.5" H x 15.75 DIA.
Overall HT. 64" Lamp: Incandescent or Fluorescent

Image C
Collection: Aliza  Style: Aliza Rush & Suspended
Diffuser: Parchment
Size: 10.5 H x 25.75" DIA. or 8.5" H x 19.75" DIA.
Lamp: Incandescent or Fluorescent

Image D
Collection: Aliza  Style: Aliza F/Lamp
Diffuser: Parchment
Size: Base 10.25" x 10.25" Lamp 9.5" H x 15.75 DIA.
Overall HT. 64" Lamp: Incandescent or Fluorescent

Image E & F
Collection: Aliza  Style: Aliza T/Lamp
Diffuser: Parchment
Size: Base 6" x 6" Lamp 8" H x 12" DIA.
Overall HT. 22" Lamp: Incandescent or Fluorescent

Manufacturer: Hampstead
Collection: Lio

Image A
Collection: Lio  Style: Lio 1 SP Small
Color: White & Clear
Diffuser: Blown Glass
Size: 2.75" DIA. 8" H
Lamp: Incandescent

Image B
Collection: Lio  Style: Lio 5 SP Large
Color: White & Clear
Diffuser: Blown Glass
Lamp: Incandescent

Image C
Collection: Lio  Style: Lio Flush
Color: White & Clear
Diffuser: Blown Glass
Size: 3" DIA. x 19" H Note this fixture is not ADA compliant
Lamp: Incandescent

Image D & E
Collection: Lio  Style: 48 SC
Color: White & Clear
Diffuser: Blown Glass
Size: 3" DIA. x 19" H Note this fixture is not ADA compliant
Lamp: Incandescent

Manufacturer: Hampstead
Collection: Sirio

Image A
Collection: Sirio  Style: Sirio/1 Pendant
Color: White & Clear
Diffuser: Glass
Size: 3" DIA. x 60" H
Lamp: G9 Wedge Based Halogen
A single baton like light structure, its diffuser is a stunning combination of crystal and frosted white blown glass. The diffuser is uniquely mounted on the tip of a crystal glass wand and magically suspended

Image B & C
Collection: Sirio  Style: Sirio Chandelier
Color: White & Clear
Diffuser: Glass
Size: 24", 32", 44", & 64" DIA. x Max 240" H
Lamp: G9 Wedge Based Halogen
Sirio Chandelier is available in a 3, 5, 9, 13, 15, 19, and a 25 Light Version. The Diameter Options for all versions are 24'/32'/44'/64'. The length of the 'glass baton' varies with the diameter options.

Image D & E
Collection: Sirio  Style: SC
Color: White & Clear
Diffuser: Glass
Size: 13" H Note this fixture is not ADA compliant
Lamp: G9 Wedge Based Halogen
This uniquely shaped diffuser is a stunning combination of crystal and frosted white blown glass. It is delicately mounted atop a satin chrome base.
Guiding Principles:

Upholstery & Vinyl

- When specifying upholstery, it is important to consider the design, fiber content, and number of double rubs. In healthcare environments, it is recommended to specify an upholstery above 50,000 double rubs.

- Many different finishes can be applied to fabrics to make them anti-microbial and stain resistant, as well as increase their maintainability and infection control. These finishes include Crypton™, Gore™, Nano-tex™, and Teflon®.

- Vinyl and Polyurethane are extremely durable options for exam rooms and waiting rooms. These options are however, not made from sustainable products. Therefore, they can not be recycled and are usually not made from recycled materials.

- Scale, color and pattern should play a role in the selection of upholstery for furniture. If the room is small and not well lit, small scales and light colored fabrics are recommended. In large spaces that are well lit and do allow natural light, larger scale fabrics are appropriate.

- It is important to keep in mind the scales of patterns when coordinating an entire room or space. Putting a number of large scale patterns or small scale patterns in one space is unacceptable. Instead, incorporate varying pattern sizes within a space to add visual interest and depth.

Guiding Principles:

Cubical Curtains

- Cubicle curtains should be chosen according to the colors and patterns of fabrics, carpet, and other finishes within the space.

- 18” of mesh with 75% openness is required at the top of the curtain for proper sprinkler coverage.

- The pattern repeat of the fabric needs to be considered so that the majority of the pattern will appear throughout the curtain.

- Patterns that come off the bolt of fabric horizontally should be railroaded to get the maximum effect of the design.

- Railroading often times allows for maximum use of particular patterns.

- Seam placement needs to be considered so it does not interrupt the flow of the curtain pattern.

- Cubical curtains need to have the room number and size of curtain sewn into the hem or header seam.

Guiding Principles:

Window Treatments

- Solar roller shades are the optimal choice for window shades in a space.

- When natural light is available, roller shades should be mounted at an appropriate height to control glare at eye level for South, East, and West exposures.

- Fabric window treatments are not recommended because they collect dust and can quickly go out of style.

- Blackouts are used in rooms where natural daylight is unwanted such as radiology reading rooms and quiet rooms.

- It is important to consider energy efficiency when specifying window treatments as they play a key role in lighting and temperature control. Window treatments can reduce heat loss in the winter and heat gain in the summer. Window treatments can reduce overall consumption of energy and can therefore lower the operating cost of a building.
### Fabric Specifications

<table>
<thead>
<tr>
<th>Image A</th>
<th>Pattern: Hopscotch</th>
<th>Color: Stone #11</th>
<th>Product Number: AC-67256-S72</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image B</td>
<td>Pattern: Hopscotch</td>
<td>Color: Ice Blue #10</td>
<td>Product Number: AC-67259-S72</td>
</tr>
<tr>
<td>Image C</td>
<td>Pattern: Hopscotch</td>
<td>Color: Green Tea #6</td>
<td>Product Number: AC-67255-S72</td>
</tr>
<tr>
<td>Image D</td>
<td>Pattern: Hopscotch</td>
<td>Color: Buttercup #7</td>
<td>Product Number: AC-67256-S72</td>
</tr>
</tbody>
</table>

### Manufacturer: ArcCom
#### Pattern: Hopscotch
- Image A
- Pattern: Hopscotch
- Color: Stone #11
- Product Number: AC-67256-S72
- Content: 100% Recycled Polyester
- Double Rubs: Exceeds 60,000 Double Rubs
- Repeat: 4.25" H x 4.75" V

- Image B
- Pattern: Hopscotch
- Color: Ice Blue #10
- Product Number: AC-67259-S72
- Content: 100% Recycled Polyester
- Double Rubs: Exceeds 60,000 Double Rubs
- Repeat: 4.25" H x 4.75" V

- Image C
- Pattern: Hopscotch
- Color: Green Tea #6
- Product Number: AC-67255-S72
- Content: 100% Recycled Polyester
- Double Rubs: Exceeds 60,000 Double Rubs
- Repeat: 4.25" H x 4.75" V

- Image D
- Pattern: Hopscotch
- Color: Buttercup #7
- Product Number: AC-67256-S72
- Content: 100% Recycled Polyester
- Double Rubs: Exceeds 60,000 Double Rubs
- Repeat: 4.25" H x 4.75" V
Manufacturer: ArcCom
Pattern: Grand Central

Manufacturer: ArcCom
Pattern: Jardin

Manufacturer: ArcCom
Pattern: Hopscotch
Upholstery FABRIC

Manufacturer: Architex

Pattern: Brook
Image A
Pattern: Brook
Color: Eucalyptus-17337
Content: 84% Polyester, 16% Rayon, CRYPTON® Finish
Double Rubs: Exceeds 50,000
Repeat: 14.5" H x 10.5" V
Image B
Pattern: Brook
Color: Vetiver-17337
Image C
Pattern: Brook
Color: Valerian-17337
Image D
Pattern: Brook
Color: Cypress-17337

Pattern: Ripples

Image A
Pattern: Ripples
Color: Clary Sage-17337
Content: 65% Polyester & 35% Rayon
Double Rubs: Exceeds 50,000
Repeat: 14.5" H x 9.5" V
Image B
Pattern: Ripples
Color: Vetiver-17337
Image C
Pattern: Ripples
Color: Jojoba-17337

Manufacturer: Architex

Pattern: Burst

Image A
Pattern: Burst
Color: Clary Sage-17337
Color: 61% Acrylic, 39% Polyester, GORE™ Seating Protection
Double Rubs: Exceeds 50,000
Repeat: 14.25" H x 14.75" V
Image B
Pattern: Burst
Color: Vetiver-17337
Image C
Pattern: Burst
Color: Jojoba-17337

Manufacturer: Architex

Pattern: Ripples

Image A
Pattern: Ripples
Color: Eucalyptus-17337
Content: 65% Polyester & 35% Rayon
Double Rubs: Exceeds 50,000
Repeat: 14.5" H x 9.5" V
Image B
Pattern: Ripples
Color: Eucalyptus-17337

Refer to manufacturer for warranty, testing and sustainability info.
Manufacturer: Architex
Pattern: Brook

Manufacturer: Architex
Pattern: Ripples

Manufacturer: Architex
Pattern: Burst

FABRIC Upholstery
Manufacturer: Architex

**Pattern: Delight**

*Image A*
- Pattern: Delight
- **Color:** Social Butterfly-17337
- Content: 42% Viscose, 36% Polyester, 22% Acrylic
- CRYPTON® Finish
- Double Rubs: Exceeds 100,000
- Repeat: 14.25” H x 6.25” V

*Image B*
- Pattern: Delight
- **Color:** Prima Donna-17337

*Image C*
- Pattern: Delight
- **Color:** Glamour Girl-17337

*Image D*
- Pattern: Delight
- **Color:** Diva-17337

*Image E*
- Pattern: Delight
- **Color:** Drama Queen-17337

Manufacturer: Architex

**Pattern: Passage**

*Image A*
- Pattern: Passage
- **Color:** Platinum-17337
- Content: 48% Polyester, 35% Acrylic, 17% Viscose
- Double Rubs: Exceeds 50,000
- Repeat: 14.375” H x 17.25” V

*Image B*
- Pattern: Passage
- **Color:** Yew-17337

*Image C*
- Pattern: Passage
- **Color:** Sapphire-17337

*Image D*
- Pattern: Passage
- **Color:** Oak-17337

Refer to manufacturer for warranty, testing and sustainability info.
Manufacturer: Architex
Collection: Delight

Manufacturer: Architex
Collection: Passage
Refer to manufacturer for warranty, testing and sustainability info.
Manufacturer: Carnegie
Pattern: Paparazzi

Manufacturer: Carnegie
Pattern: Headline & Fossil

Manufacturer: Carnegie
Pattern: Soleil & Ink
Manufacturer: Design Tex
Pattern: Brasserie & Bliss

**Image A**
- Pattern: Brasserie
- Color: Cafe au Lait 101
- Product Number: 2793
- Content: 53% Polyester, 36% Rayon, 11% Post-Industrial Recycled Polyester
- Double Rubs: Exceeds 60,000
- Repeat: H - none x 4.25” V

**Image B**
- Pattern: Bliss
- Color: Toast 102
- Product Number: 2770
- Content: 100% Zeftron® Contex Solution Dyed Nylon
- Double Rubs: Exceeds 90,000
- Repeat: 11” V x 5.25” H

**Image C**
- Pattern: Bliss
- Color: Winter Leaf 801
- Product Number: 2770

**Image D**
- Pattern: Bliss
- Color: London Fog 901
- Product Number: 2770

**Image E**
- Pattern: Brasserie
- Color: Vert 501
- Product Number: 2793

Refer to manufacturer for warranty, testing and sustainability info.

Manufacturer: Design Tex
Collection: Dodge Ball Too

**Image A**
- Pattern: Dodge Ball Too
- Color: Gumball 401
- Product Number: 2366
- Content: 92% Post Industrial Recycled Polyester & 8% Post Consumer Recycled Polyester
- Double Rubs: Exceeds 100,000
- Repeat: 1.75” H x 4.25” V

**Image B**
- Pattern: Dodge Ball Too
- Color: Mudslide 101
- Product Number: 2366

**Image C**
- Pattern: Dodge Ball Too
- Color: Spruce 502
- Product Number: 2366

**Image D**
- Pattern: Dodge Ball Too
- Color: London Fog 901
- Product Number: 2843

Refer to manufacturer for warranty, testing and sustainability info.

Manufacturer: Design Tex
Collection: Acaia

**Image A**
- Pattern: Acaia
- Color: Sand Painting 101
- Product Number: 2843

**Image B**
- Pattern: Acaia
- Color: Tree Bark 901
- Product Number: 2843

**Image C**
- Pattern: Acaia
- Color: Night Sky 401
- Product Number: 2843

**Image D**
- Pattern: Acaia
- Color: Colorado River 501
- Product Number: 2843

Refer to manufacturer for warranty, testing and sustainability info.
Manufacturer: Design Tex
Pattern: Brasserie & Bliss

Manufacturer: Design Tex
Collection: Dodge Ball Too

Manufacturer: Design Tex
Collection: Acaia
Manufacturer: Knoll
Pattern: Zari CR

Image A
Pattern: Zari CR
Color: Batik
Product Number: HC1008/8
Content: Polyester 45%, Cotton 40%, Rayon 15%
Double Rubs: Exceeds 50,000
Repeat: 12.5” H x 11” V
Sustainable Info: Greenguard Certified

Image B
Pattern: Zari CR
Color: Gem
Product Number: HC1008/1

Image C
Pattern: Zari CR
Color: Facets
Product Number: HC1008/2

Image D
Pattern: Zari CR
Color: Fountain
Product Number: HC1008/3

Image E
Pattern: Zari CR
Color: Onyx
Product Number: HC1008/7

Manufacturer: Knoll
Pattern: Stepping Stones

Image A
Pattern: Stepping Stones
Color: Malachite
Product Number: K346/4
Content: Nylon 43%, Wool 22%, Mercerized Cotton 19%, Polyester 16%
Double Rubs: Exceeds 45,000
Repeat: 13.5” H x 6” V
Sustainable Info: Greenguard Certified; 76% Natural Fiber

Image B
Pattern: Stepping Stones
Color: Pewter
Product Number: K346/1

Image C
Pattern: Stepping Stones
Color: Travertine
Product Number: K346/2

Image D
Pattern: Stepping Stones
Color: Satellite
Product Number: K503/6

Manufacturer: Knoll
Collection: Echo & Satellite

Image A
Pattern: Echo
Color: Poolside
Product Number: K1019/4
Content: Cotton 76%, Nylon 24%
Double Rubs: Exceeds 45,000
Repeat: 13.5” H x 6” V
Sustainable Info: Greenguard Certified; 76% Natural Fiber

Image B
Pattern: Satellite
Color: Anthracite
Product Number: K503/8
Content: 68% Rayon & 32% Polyester
Double Rubs: Exceeds 66,000
Repeat: 7” H x 7.5” V

Image C
Pattern: Satellite
Color: Moon
Product Number: K503/1

Image D
Pattern: Satellite
Color: Satellite
Product Number: K503/6

Image E
Pattern: Echo
Color: Newsprint
Product Number: K1019/6

Image F
Pattern: Echo
Color: Mudslide
Product Number: K1019/7

Refer to manufacturer for warranty, testing and sustainability info.

Pattern: Zari CR
Pattern: Stepping Stones
Collection: Echo & Satellite
Manufacturer: Knoll
Pattern: Zari CR
Collection: Echo & Satellite

Manufacturer: Knoll
Pattern: Stepping Stones
Collection: Echo & Satellite

Manufacturer: Knoll

FABRIC Upholstery
Fabric

Manufacturer: Maharam
Pattern: Scuba

Image A
Pattern: Scuba
Color: Dune 003
Product Number: 464930
Content: 100% Polyurethane
Double Rubs: Exceeds 200,000

Image B
Pattern: Scuba
Color: Tourmaline 015
Product Number: 464930

Image C
Pattern: Scuba
Color: Sage 011
Product Number: 464930

Image D
Pattern: Scuba
Color: Drizzle 010
Product Number: 464930

Image E
Pattern: Scuba
Color: Dolphin 009
Product Number: 464930

Image F
Pattern: Scuba
Color: Cocoon 002
Product Number: 464930

Refer to manufacturer for warranty, testing and sustainability info.

Manufacturer: Maharam
Pattern: Chime

Image A
Pattern: Chime
Color: Pearl 001
Product Number: 465350
Content: 100% Vinyl
Double Rubs: Exceeds 75,000

Image B
Pattern: Chime
Color: Copper 018
Product Number: 465350

Image C
Pattern: Chime
Color: Peacock 010
Product Number: 465350

Image D
Pattern: Chime
Color: Pine 009
Product Number: 465350

Image E
Pattern: Chime
Color: Particle 007
Product Number: 465350

Image F
Pattern: Chime
Color: Honey 002
Product Number: 465350

Refer to manufacturer for warranty, testing and sustainability info.

Manufacturer: Maharam
Collection: Sudden

Image A
Pattern: Sudden
Color: Glamour 007
Product Number: 463000
Content: 100% Polyurethane
Double Rubs: Exceeds 500,000

Image B
Pattern: Sudden
Color: Arabica 006
Product Number: 463000

Image C
Pattern: Sudden
Color: Flotilla 019
Product Number: 463000

Image D
Pattern: Sudden
Color: Fresh 023
Product Number: 463000

Image E
Pattern: Sudden
Color: Patina 004
Product Number: 463000

Image F
Pattern: Sudden
Color: Tint 001
Product Number: 463000

Refer to manufacturer for warranty, testing and sustainability info.
Manufacturer: Maharam
Pattern: Semaphore & Increment

*Image A*
- Pattern: Semaphore
- Color: Solace 001
- Product Number: 511442
- Content: 50% Trevira® CS Bioactive Polyester, 50% Polyester

*Image B*
- Pattern: Increment
- Color: Fossil 001
- Product Number: 511443
- Content: 50% Trevira® CS Bioactive Polyester, 50% Polyester

*Image C*
- Pattern: Increment
- Color: Frame 004
- Product Number: 511443

*Image D*
- Pattern: Increment
- Color: Assist 002
- Product Number: 511443

*Image E*
- Pattern: Semaphore
- Color: Forecast 002
- Product Number: 511442

*Image F*
- Pattern: Semaphore
- Color: Bale 003
- Product Number: 511442

Refer to manufacturer for warranty, testing and sustainability info.

Manufacturer: Carnegie
Pattern: Canopy & Frameless

*Image A*
- Pattern: Frameless
- Color: 10
- Product Number: 4156
- Content: 100% Trevira® CS
- Repeat: 22" H x 28" V

*Image B*
- Pattern: Canopy
- Color: 5
- Product Number: 4238
- Content: 100% FR Polyester

*Image C*
- Pattern: Increment
- Color: Frame 004
- Product Number: 511443

*Image D*
- Pattern: Increment
- Color: Assist 002
- Product Number: 511443

*Image E*
- Pattern: Frameless
- Color: 13
- Product Number: 4156

*Image F*
- Pattern: Frameless
- Color: 14
- Product Number: 4156

Refer to manufacturer for warranty, testing and sustainability info.

Manufacturer: Design Tex
Collection: Nightingale

*Image A*
- Pattern: Nightingale
- Color: Sunrise 701
- Product Number: 8707
- Content: 100% Trevira® CS
- Repeat: 22" H x 28" V

*Image B*
- Pattern: Nightingale
- Color: Pearl 101
- Product Number: 8707

*Image C*
- Pattern: Nightingale
- Color: Meadow 102
- Product Number: 8707

Refer to manufacturer for warranty, testing and sustainability info.
Manufacturer: Maharam
Pattern: Semaphore & Increment

Manufacturer: Carnegie
Pattern: Canopy & Frameless

Manufacturer: Design Tex
Pattern: Nightingale
### Category: Sign Type A1
#### Sub-title
1. Fabrication details:
2. Mounting Instructions

### Category: Sign Type B1
#### Sub-title
1. Fabrication details:
2. Mounting Instructions

### Category: Sign Type C1
#### Sub-title
1. Fabrication details:
2. Mounting Instructions

### Column 1
- Sign Type A1
- Sign Type B1
- Sign Type C1

### Column 2
- Sign Type A1
- Sign Type B1
- Sign Type C1

### Column 3
- Sign Type A1
- Sign Type B1
- Sign Type C1
First Impressions.....

Upon entering a healthcare facility the senses can become an internal message board for overall well being. Clutter, outdated materials and unkempt surroundings can elicit a sense of unease and apprehension about the staff and facility alike.

The Journey.....

As the journey proceeds through the facility to the final destination, consistent navigational devices will be used to aid and direct the user path. The use of varying sign systems, type styles and graphic formats can create a sense of disorientation and frustration.

Final Destinations.....

The journey to the intended destination can carry the user through various emotional stages. Well labeled service lines and corridors will avoid apprehension or confusion and will instill a sense of accomplishment immediately following the “I have arrived” revelation.
Guiding Principles:
Room-Regulatory

- Signs used throughout all USAF medical facilities shall conform to the requirements of the Americans with Disabilities Act Accessibility Guidelines (ADAAG) or the Uniform Federal Accessibility Standards (UFAS), whichever is more restrictive.

- With the exception of Regulatory Message signs, no signage shall be fastened to any moveable doors within the facility.

- Changeable message signs are to be located wherever the facility managers, departmental personnel or regulatory agencies require additional communication messages such as hours of operation, patient instructions, or similar custom messages that are subject to change.

- To create a manageable flow of wayfinding information inside a facility, zone and/or color-coding designations can be incorporated into the Departmental Background signage inserts. These provide users with short destination messages to remember and interpret as they navigate through the facility.

- All colored departmental background inserts to be pre-printed on 80 lb. cover stock.

- All regulatory signage inserts to be pre-printed on 80 lb. cover stock.

- Restrooms are always a destination that should be consistently and clearly identified, particularly in a healthcare facility, where not all restrooms are to be used by the public. In cases where restrooms are located in a public corridor and are not clearly visible from a lobby or waiting area, flag-mounted signage can help users locate this destination.

Guiding Principles:
Wayfinding

- Wayfinding is defined as the process by which people navigate through physical space. It is more than signs alone, rather it is a combination of visual and audio “cues” built into or applied onto an environment using elements such as landmarks, flooring, and custom wall finishes that allow a person to self-navigate a site as much as possible. The process for developing an effective approach to wayfinding requires an overall idea of the intent of the building or space and an analysis of the circulation patterns and points of decision. The final step is to design the most effective use of user-friendly cues that fit the aesthetic intent of the building or space.

- Users can only view and interpret a limited amount of information at one time. Extremely lengthy or wordy messages may result in “information overload” and a discouraging experience for the user. To keep sign message length in check, directional messaging should not include name-branding. Users will be aware of the organization’s name and do not need to see it repeated in directional messages.

- By using commonly accepted abbreviations, the amount of text that users have to read and decipher is reduced, making their experience faster and more comfortable. Because of some code-requirements, abbreviations allow sign messages to be placed in more locations because the limitation of length of message is resolved.

- Users can only view and interpret a limited amount of information at one time. Extremely lengthy or wordy messages may result in “information overload” and a discouraging experience for the user. To keep sign message length in check, directional messaging should not include name-branding. Users will be aware of the organization’s name and do not need to see it repeated in directional messages.

- By using commonly accepted abbreviations, the amount of text that users have to read and decipher is reduced, making their experience faster and more comfortable. Because of some code-requirements, abbreviations allow sign messages to be placed in more locations because the limitation of length of message is resolved.

- “Building Research Survey” noted that in a typical 800 bed healthcare facility with an inadequate sign and wayfinding system, an average of 8000 people hours were spent each year by staff members to give directions to visitors.

- Incorporating multi-lingual messaging into the signage program at strategic locations throughout a facility can enhance the wayfinding experience.

- Arrow Directions: Left-pointing arrows shall be placed at the top, up-pointing arrows next, and right-pointing arrows at the bottom.

Guiding Principles:
Recognition

- Entry lobby signage to be represented by local command shield.

- All Chain of Command and Award Winner walls are intended to be used with official military photos (with flags in the background) for consistency and to enhance the overall professional appearance.

Disclaimer:
Reference herein to any specific company, commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not constitute an endorsement, recommendation or favoring by the Air Force Medical Service. Signage & Wayfinding designs displayed in this Interior Design Guide are provided as a procurement resource to be used in conjunction with UFC-3-120-01. While the designs contained within this Signage & Wayfinding section vary from the UFC-3-120-01, they are found to have met the required standards set forth within the ADAAG and/or the UFAS. The Air Force Medical Service has received no financial consideration, services, materials or endorsements from owners, agents, representatives, and/or parties holding interests of identified items listed.
Guiding Principles:

- The Trebuchet typeface family, like Verdana and Georgia, was created for use on the screen. Designed and engineered in 1996 by Microsoft's Vincent Connare, it has a strong and unmistakable appearance. Borrowing elements from both the geometric and humanist classifications of sans serif type - Connare acknowledges the influence of designs as diverse as Gill Sans, Erbar, Frutiger, Akzidenz Grotesk and the US Highway signing system - Trebuchet infuses any page with energy and personality. Its letterforms, loosely based on sans serif typeface designs of the 1920s and 1930s, carry a large x-height and clean lines designed to promote legibility, even at small sizes.

- One of Connare's intentions when designing Trebuchet was to instill personality into the letterforms, even at small sizes, while retaining clarity and readability. He wanted to create a typeface which was 'significantly distinguishable from Verdana and MS Sans'. He has accomplished this by departing from the classical model in characters such as the lowercase g and uppercase M, unique yet reminiscent of some of Paul Renner's alternate designs for Futura. Less noticeable details include the serif-like bars of the lowercase i and j, and the curled, kicking stem of the lowercase l - efforts intended to make each character as distinct and recognizable as possible.

- Trebuchet is well-suited to use for extended texts, User Interface scenarios and spreadsheet design, given the font's narrow letterforms. Trebuchet works brilliantly on the screen and has quickly become a classic choice for Web page design.

Guiding Principles:

- The "language" of the organization must be consistent so that users can learn a limited vocabulary and successfully navigate through the facility. Uniformity in font and graphic style is essential for a successful signage and wayfinding program. Additionally, nomenclature should appear consistently in the organization's other media (brochures, web site, etc.) and in its personal dealings with users. The nomenclature established by the organization should reflect the destinations as they will be recognized by the patients and visitors of the facility, not the organization itself.

Typography

SIGNAGE & WAYFINDING

100

Guiding Principles:

Trebuchet Type Font:

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

Guiding Principles:

Trebuchet MS Bold

NOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

Guiding Principles:

Trebuchet MS Regular

NOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890
Guiding Principles:

- For everyone who works in healthcare environments, universal symbols can be the key ingredient in satisfying their core healthcare mission of providing access and help to all in need.

- To aid in the recognition of destinations, common and international symbols should be incorporated into sign messages. Symbols reduce the amount of text that users have to read/decipher and can be more readily utilized by users with limited eyesight or limited literacy. Symbols appear commonly at other destinations experienced by the public (interstate highways, movie theaters, etc.) and are therefore a comfortable way to transmit information.

Symbols for Use in Healthcare

- The development of universal symbols required an extensive design and research process. Funded by The Robert Wood Johnson Foundation and overseen by the National Program Office of Hablamos Juntos, the 28 healthcare symbols were developed by a design team of leading health facility designers led by JRC Design and tested by Wendy T. Olmstead, a top symbols researcher, using testing methods adopted by the International Organization for Standardization (ISO). Existing symbols, along with newly designed symbols (approximately 600 total), were collected and evaluated by the design team. For each referent, five to six symbols were chosen to be used in the first round of testing. The symbols were tested across four language groups in ten states. Based upon each round’s results, symbols were either rejected or accepted and refined for further testing. With an iterative symbol design and testing process, consisting of three rounds of testing and nearly three hundred test subjects, the healthcare symbols set represents one of the most comprehensive symbols design efforts ever undertaken.

- A few of the lessons learned in the symbol design testing process included focusing on a limited number of distinct symbols that could be recognized instead of a large group of symbols similar in appearance. It was also learned that while some symbols, representing easy to understand destinations, could be read with few problems, others were difficult to comprehend. This is endemic of a lack of understanding of the meaning of certain hospital functions by the general population, and brought to light the need to use symbols for tough-to-comprehend destinations as educational tools.

- Once developed, a team led by the Society for Environmental Graphic Design (SEGD) and the Pennsylvania State University evaluated the symbols by placing them on signs and in print formats in diverse healthcare settings. They conducted wayfinding exercises with four language groups to compare navigation with symbols versus navigation with multilingual word signs. This testing enabled groups and the effectiveness of universal symbols in the healthcare environment. The lessons learned from the observations made during the wayfinding testing process in the pilot hospitals, matched to examples of best practices found in different facilities around the world. The final universal healthcare symbols are the product of many contributors and are a testament to a unique and extensive open testing process.
A healthcare facility setting, unlike any other, can elicit an array of emotion from every individual. These responses can vacillate from amazement, to confusion and intimidation, and can end at apprehension and anger within the first few moments of the campus experience. To create the most positive interaction for staff and visitors alike, deliberate and premeditated choices are crucial in the early stage of the design process to shape and control how the facility is navigated.

While a patient can expect excellent and comprehensive care to be delivered in any Air Force health facility, an equal amount of care must be taken in creating a logical and intuitive method for the movement of patients, visitors and staff.

The goal of a signage and wayfinding program is to create a simple and cohesive set of design standards with a consistent approach to the physical characteristics of the sign system, the content aspects of departmental and service nomenclature, and the use of symbols where appropriate. This consistent approach to product and method will help provide the Air Force the most cost efficiencies and ease of use. The benefits of standardization in the overall program will allow for a connection to the character of each individual facility, while at the same time create connection of the various facilities into one cohesive scheme that is user friendly, safe and efficient for staff and facilities personnel alike.

People navigate in a variety of ways, the most common is by using landmarks. They look for unique features to mark or orient as they move toward intended destinations. Facilities need to use all available means to create these features or landmark elements within the space to aid the visitor and staff. Using the building features provided by the architectural design and its relationship to the site and interior spaces will allow these visual cues to communicate paths and destinations.

Sign location and legibility are the most important aspects to any sign system. A standardized font family with guidelines for size, color, tracking and letter spacing must be established along with a set of suggested symbols specifically designed for the healthcare environment that can be used in conjunction with traditional copy. Graphic elements such as arrows and rule lines, or other elements to create a focus where appropriate, should also be defined in the standards documentation. This will create a family of sign types allowing for layered and consistent information.
The proposed signage and wayfinding system includes three primary components:

- Room-Regulatory
- Wayfinding
- Recognition

The Room-Regulatory and Wayfinding sections will address all fundamental sign and wayfinding components needed to identify rooms, provide directional information, message information as well as meet other basic signage needs such as regulatory and code requirements.

The Recognition section will address specialty displays, recognition systems, and other informative graphic elements typical for a United States Air Force Medical Facility.

For more detailed product specifications, pricing sheets, and sample location plans, please refer to the IDG web site located at http://www.wbdg.org/ccb/AF/AFIDG/

The objective of a wayfinding and signage standards program is to create a simple and cohesive set of design standards with a consistent approach to the physical characteristics of the sign and its integration within the facility. In order to achieve the objective the wayfinding and signage program should:

- Establish an enhanced graphic environment that improves the public perception of the facility and creates a positive interaction for all users.
- Replace existing out-of-date sign systems.
- Identify rooms and areas.
- Address ADA, life safety, and local code requirements.
- Establish consistent nomenclature for all services, departments, entrances, and wings relative to each facility.
- Provide directional messaging via the display of relative information at relative locations to help guide the visitor independently to their final destination.
- Provide adequate documentation of the new standards so to facilitate their integration and implementation into additional areas within the facility.

Meeting these program requirements and the effective coordination and communication between the Sign Contractor and the Project Team will allow for a successful implementation of the wayfinding and signage standards for all facilities.
Sign Type A1
Primary Room Identification

1 - Header:
1/4" thick horizontal brushed aluminum with raised tactile text (1/32" thick black GravoTac engraving stock) and Grade II Braille fabricated using embedded stainless steel beads.

Footer:
1/4" thick horizontal brushed aluminum with set screw to lock acrylic message panel in place.

Message Area:
1/8" thick clear matte acrylic with routed edges. Thickness to allow easy insertion of different card stock color or printed departmental graphic back inserts and front message inserts. Front message insert text printed on clear mylar. Fabricator to provide message and departmental background inserts for initial installation.

Back plate:
1/16" sheet aluminum with a horizontal brushed finish.

Mounting plate:
1/8" thick clear acrylic indented 1/2" from back plate edges to facilitate future wall repairs and painting. Sign attached to the wall utilizing double-faced foam tape and clear silicone adhesive.

Header Font: Trebuchet MS Bold
Message Insert Font: Trebuchet MS Regular

2 - Mounting Instructions:
Signs to be mounted on the strike side of the door, 60" from finished floor to baseline of tactile text characters according to ADA requirements.

Sign Type A1 (cont')
Additional Layouts

3 - Installation Information:
Where a tactile sign is provided at a door, the sign shall be located alongside the door, on the latch side.

Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf.

Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door.

Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall.

Signs containing tactile characters shall be located so that a clear floor space of 18" (455 mm) minimum by 18" (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing, between the closed position and the 45 degree (half-open) position.

NOTE: With the exception of Regulatory Message signs, no signage shall be fastened to any movable doors within the facility.

Sign Type A2
Secondary Room Identification

1 - Header:
1/4" thick horizontal brushed aluminum with raised tactile text (1/32" thick black GravoTac engraving stock) and Grade II Braille fabricated using embedded stainless steel beads.

Footer:
1/4" thick horizontal brushed aluminum with set screw to lock acrylic message panel in place.

Message Area:
1/8" thick clear matte acrylic with routed edges. Thickness to allow easy insertion of different card stock color or printed departmental graphic back inserts and front message inserts. Front message insert text printed on clear mylar. Fabricator to provide message and departmental background inserts for initial installation.

Back plate:
1/16" sheet aluminum with a horizontal brushed finish.

Mounting plate:
1/8" thick clear acrylic indented 1/2" from back plate edges to facilitate future wall repairs and painting. Sign attached to the wall utilizing double-faced foam tape and clear silicone adhesive.

Header Font: Trebuchet MS Bold
Message Insert Font: Trebuchet MS Regular

2 - Mounting Instructions:
Signs to be mounted on the strike side of the door, 60" from finished floor to baseline of tactile text characters according to ADA requirements.
SIGNAGE & WAYFINDING

Room-Regulatory

Sign Type A1
Primary Room Identification

- 3" x 3.5" typical installation elevation
- 1/2" CAP HT
- 7" x 0.5" 2 3/4" Front View
- 0x0 1/2" 2 1/2" 224 910

Sign Type A2
Secondary Room Identification

- 3" x 3.5" typical installation elevation
- 1/2" CAP HT
- 7" x 0.5" 2 3/4" Front View
- 0x0 1/2" 2 1/2" 224 910

Authorized Personnel Only

- 327
- 0x0 1/2" CAP HT
- 327 327

Optometry Clinic
Director
Maj Janet Sorensen

Decontamination Room
A2

Pharmacy Director
Dr. David Petersen Jr.

Alternate insert layouts

Typical secondary insert
Sign Type A1

Department Background Inserts

1. All background inserts to be printed to full bleed on 80lb. cover stock and cropped to 4.25” high x 7” wide.

Sign Contractor to only print from high resolution (.tif) files provided. Crop marks are provided on said (.tif) files.
Sign Type A1
Department Background Inserts
Sign Type A1
Department Background Inserts (con't)
SIGNAGE & WAYFINDING
Room-Regulatory
**Sign Type B1**

**Large Changeable Message**

1 - Top Rail:
1/4" thick horizontal brushed aluminum.

Bottom Rail:
1/4" thick horizontal brushed aluminum with set screw to lock acrylic message panel in place.

Message Area:
1/8" thick clear matte acrylic with routed edges. Thickness to allow easy insertion of standard 8 1/2" x 11" printed paper inserts to be provided by the Sign Contractor according to the approved sign message schedule.

Back plate:
1/16" sheet aluminum with a horizontal brushed finish.

Mounting plate:
1/8" thick clear acrylic indented 1/2" from back plate edges to facilitate future wall repairs and painting. Sign attached to wall utilizing double-faced foam tape and clear silicone glue. No adhesive is to be seen by visitors and staff.

2 - Mounting Instructions:
Signs to be mounted on the strike side of the door 60" on center of the sign from finished floor.

Note: These signs are to be located wherever the facility managers or departmental personnel require additional communication messages such as hours of operation, patient instructions, or similar custom messages that are subject to change.

**Sign Type B2**

**Small Changeable Message**

1 - Top Rail:
1/4" thick horizontal brushed aluminum.

Bottom Rail:
1/4" thick horizontal brushed aluminum with set screw to lock acrylic message panel in place.

Message Area:
1/8" thick clear matte acrylic with routed edges. Thickness to allow easy insertion of different card stock color or printed departmental graphic back inserts.

Front message inserts text printed on clear mylar.

Sign Contractor to provide inserts for initial order according to the approved message schedule.

Back plate:
1/16" sheet aluminum with a horizontal brushed finish.

Mounting plate:
1/8" thick clear acrylic indented 1/2" from back plate edges to facilitate future wall repairs and painting. Sign attached to wall utilizing double-faced foam tape and clear silicone glue. No adhesive is to be seen by visitors and staff.

2 - Mounting Instructions:
Signs to be mounted on the strike side of the door 60" on center of the sign from finished floor.

Note: These signs are to be located wherever the facility managers or departmental personnel require additional communication messages such as hours of operation, patient instructions, or similar custom messages that are subject to change.

**Sign Type B3**

**Optional “In-Use” Slider**

1 - Top Rail:
1/4" thick horizontal brushed aluminum.

Bottom Rail:
1/4" thick horizontal brushed aluminum with set screw to lock acrylic message panel in place.

Message Area:
1/8" thick clear matte acrylic with routed edges. Thickness to allow easy insertion of different card stock color or printed departmental graphic back inserts.

Back plate:
1/16" sheet aluminum with a horizontal brushed finish.

Mounting plate:
1/8" thick clear acrylic indented 1/2" from back plate edges to facilitate future wall repairs and painting. Sign attached to wall utilizing double-faced foam tape and clear silicone glue. No adhesive is to be seen by visitors and staff.

2 - Mounting Instructions:
Signs to be mounted on the strike side of the door, 60" on center of the sign from finished floor.

Note: These signs are to be located wherever the facility managers or departmental personnel require additional communication messages such as hours of operation, patient instructions, or similar custom messages that are subject to change.

Note: When using in conjunction with Sign Types A1, D1 or D2, changeable message signs are to be located flush below the primary sign.
**Sign Type B1**
Large Changeable Message

**Sign Type B2**
Small Changeable Message

**Sign Type B3**
Optional “In-Use” Slider

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**Clinic Hours**

- **Monday**: 0800-1700
- **Tuesday**: 0800-1700
- **Wednesday**: 0800-1700
- **Thursday**: 0800-1700
- **Friday**: 0800-1700
- **Saturday**: Closed
- **Sunday**: Closed

**Emergency Contact**
Number: 000-123-4567

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**Nearest accessible restroom is located near the main lobby on the ground level.**

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**ISOLATION**
Proper Attire Required

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**Custom text as needed per door**

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**Additional Layout**

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**Optional “In-Use” Slider**

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**Additional Layout**

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**Additional Layout**

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112
Room-Regulatory

SIGNAGE & WAYFINDING

Sign Type C1
Restrooms

1 - Sign Panel:
1/4” thick horizontal brushed aluminum with raised tactile text (1/32” thick black Gravotac engraving stock) and Grade II Braille fabricated using embedded stainless steel beads.

Sign Panel Font: Trebuchet MS Bold

Mounting plate:
1/8” thick clear acrylic indented 1/2” from back plate edges to facilitate future wall repairs and painting. Sign attached to wall utilizing double-faced foam tape and clear silicone adhesive.

2 - Mounting Instructions:
Signs to be mounted on the strike side of the door, 60” on center of the sign from finished floor according to ADA requirements.

Note: Non-ADA accessible restrooms must have directions to the nearest accessible restroom. Utilize Sign Type B2 in conjunction with the restroom I.D. sign to provide the appropriate directions. Example message: “Nearest accessible restroom is located near the main lobby on the ground level.”

Sign Type C2
Stairs

1 - Sign Panel:
1/4” thick horizontal brushed aluminum with raised tactile text (1/32” thick black Gravotac engraving stock) and Grade II Braille fabricated using embedded stainless steel beads.

Sign Panel Font: Trebuchet MS Bold

Mounting plate:
1/8” thick clear acrylic indented 1/2” from back plate edges to facilitate future wall repairs and painting. Sign attached to wall utilizing double-faced foam tape and clear silicone adhesive.

2 - Mounting Instructions:
Signs to be mounted on the strike side of the door, 60” on center of the sign from finished floor according to ADA requirements.
Sign Type C1
Restrooms

Sign Type C1 (con't)
Restrooms

Sign Type C2
Stairs

Typical Installation Elevation
Front View
Side View

Additional Layouts

60" O.C. from finished floor to center of sign

3"
**Room-Regulatory**

**SIGNAGE & WAYFINDING**

1 - Sign Panel: 1/4" thick horizontal brushed aluminum with silk screened text and graphics.

**Sign Panel Font:** Trebuchet MS Bold

**Mounting plate:**
- 1/8" thick clear acrylic indented 1/2" from back plate edges to facilitate future wall repairs and painting. Sign attached to wall utilizing double-faced foam tape and clear silicone adhesive.

- **Note:** A minimum of 3 maps to be located on each level. Digital template floor plan map artwork to be provided by the Graphic Designer and custom modifications (you are here, evacuation route, etc.) for each map location to be provided by the Sign Contractor. Each map must be customized and oriented appropriately according to the wall surface where it is to be mounted.

- **Evacuation Maps**

1. **Sign Type D1**
   - **Top Rail:** 1/4" thick horizontal brushed aluminum.
   - **Bottom Rail:** 1/4" thick horizontal brushed aluminum with set screw to lock acrylic message panel in place.
   - **Message Area:** 1/8" thick clear matte acrylic with routed edges. Thickness to allow easy insertion of standard 8 1/2" x 11" printed card stock evacuation map inserts to be provided by the Sign Contractor.
   - **Back plate:** 1/16" sheet aluminum with a horizontal brushed finish.
   - **Mounting plate:** 1/8" thick clear acrylic indented 1/2" from back plate edges to facilitate future wall repairs and painting. Sign attached to the wall utilizing double-faced foam tape and clear silicone adhesive.

   **Note:** Signs and sign layouts must comply with NFPA 101 Annex A 2006.

2. **Sign Type D2**
   - **Floor Number & Stairwell Name:**
     - Raised photopolymer tactile surface applied text (1/32" thick black GravoTac engraving stock) and Grade II Braille fabricated using embedded stainless steel beads.

   **Bottom Text:**
   - Silk screened text and line rule graphics.

   **Mounting plate:**
   - 1/8" thick black acrylic indented 1/2" from back plate edges to facilitate future wall repairs and painting. Sign attached to wall utilizing black double-faced foam tape and clear silicone glue. No adhesive is to be seen by visitors and staff.

   **Sign Panel Font:** Trebuchet MS Bold & Regular

3. **Sign Type D3**
   - **In Case of Fire**
   - **Top Rail:** 1/4" thick horizontal brushed aluminum with silk screened text and graphics.

   **Sign Panel Font:** Trebuchet MS Bold

   **Mounting plate:**
   - 1/8" thick clear acrylic indented 1/2" from back plate edges to facilitate future wall repairs and painting. Sign attached to wall utilizing double-faced foam tape and clear silicone adhesive.

   **Note:** Signs to be mounted at the stairwell landing for each floor and visible if the door is opened or closed. Install signs 60" on center of the sign from finished floor according to ADA requirements and NFPA requirements.

- **2 - Mounting Instructions:**
  - Signs to be mounted at the stairwell landing for each floor and visible if the door is opened or closed. Install signs 60" on center of the sign from finished floor according to ADA requirements and NFPA requirements.

- **Note:** Signs and sign layouts must comply with NFPA 101 Annex A 2006.
In Case of Fire
Do Not Use Elevators
Use Exit Stairs

Typical Installation Elevation

**Sign Type E1**  
Flag Mounted

1 - Mounting Bracket:  
Brushed aluminum T-bracket mechanically mounted to wall surface.

   Sign Panel:  
   1/8” thick horizontal brushed aluminum.  
   Mechanically attach panel to aluminum channel with tamper proof screws.

   Sign Graphic:  
   Black 3M Scotchcal vinyl, surface applied both sides.  
   Refer to symbols legend for appropriate icon artwork.

2 - Mounting Instructions:  
   Typical mounting height shall be 80” minimum above finished floor as required by ADA and UFAS.

**Sign Type F1**  
Regulatory Message

1 - Faceplate:  
1/16” thick clear acrylic with silk screen border on the second surface to match Matthews “Brushed Aluminum” paint.  
Window area to remain transparent so insert can show through.

   Spacers:  
   1/16” thick painted acrylic.

   Message Inserts:  
   Color laser printed 80 lb. card stock inserts to be provided according to the Sign types A1 quantities required on the Bid Quantities Spreadsheet.

   Back plate:  
   1/16” thick clear acrylic painted on the 1st surface to match Matthews “Brushed Aluminum” paint.  
   All edges to be buffed and painted to match background color.

   Mounting plate:  
   1/8” thick clear acrylic indented 1/2” from back plate edges.  
   Sign attached to door utilizing double-faced foam tape and clear silicone adhesive.

   Fonts:  
   Trebuchet MS Regular as shown.

2 - Mounting Instructions:  
   Sign installed utilizing foam tape and clear silicone.  
   Typical mounting height shall be 5-4” above finished floor to the bottom of the signs and centered on door.  
   Typical installations in Korea shall utilize 2 signs, one in English and the other in Korean (Hangul) as needed.
Sign Type G1  
Patient’s Rights  

1 - Top Rail:  
1/4” thick horizontal brushed aluminum.  

Bottom Rail:  
1/4” thick horizontal brushed aluminum with set screw to lock acrylic message panel in place.  

Message Area:  
1/8” thick clear acrylic with routed edges. Thickness to allow easy insertion of different color printed card stock message inserts. Sign Contractor to provide inserts for initial order according to the approved message schedule.  

Note: The digital output for the message insert shall be printed on 80 lb. cover stock and have a background image utilizing a high resolution scan of an actual size piece of 3-form “Birch” resin panel. The woodgrain shall be horizontal.  

Sign contractor shall submit samples of digital output for color verification and approval prior to fabrication.  

Back plate:  
1/16” sheet aluminum with a horizontal brushed finish.  

Mounting plate:  
1/8” thick clear acrylic indented 1/2” from back plate edges to facilitate future wall repairs and painting. Sign attached to the wall utilizing double-faced foam tape and clear silicone adhesive.  

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Sign Type G2  
Staff Rights  

1 - Top Rail:  
1/4” thick horizontal brushed aluminum.  

Bottom Rail:  
1/4” thick horizontal brushed aluminum with set screw to lock acrylic message panel in place.  

Message Area:  
1/8” thick clear acrylic with routed edges. Thickness to allow easy insertion of different color printed card stock message inserts. Sign Contractor to provide inserts for initial order according to the approved message schedule.  

Note: The digital output for the message insert shall be printed on 80 lb. cover stock and have a background image utilizing a high resolution scan of an actual size piece of 3-form “Birch” resin panel. The woodgrain shall be horizontal.  

Sign contractor shall submit samples of digital output for color verification and approval prior to fabrication.  

Back plate:  
1/16” sheet aluminum with a horizontal brushed finish.  

Mounting plate:  
1/8” thick clear acrylic indented 1/2” from back plate edges to facilitate future wall repairs and painting. Sign attached to the wall utilizing double-faced foam tape and clear silicone adhesive.  

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Sign Type H1  
Facility Management Door Tag  

1 - 1/8” thick horizontal brushed aluminum. All tags to have polyurethane clear coat finish.  


Mounting plate:  
1/16” thick clear acrylic shim.  

2 - Mount to existing door frame using 3M 4910 HB tape or equal.
**Sign Type G1**
Patient’s Rights

**Sign Type G2**
Staff Rights

**Sign Type H1**
Facility Management Door Tag

**Typical Mounting Elevation**
6'-0" to the top

1'-6"

2'-9"

**Staff Rights**
Sign Type G2

**Patient’s Rights**
Sign Type G1

**Typical Mounting Elevation**
6'-0" to the top

1'-6"
Sign Type J1
Large Wall Mounted Directionals

1 - Top Rail:
1/4" thick horizontal brushed aluminum.

Bottom Rail:
1/4" thick horizontal brushed aluminum with set screw to lock acrylic message panel in place.

Message Area:
1/8" thick clear matte acrylic with routed edges. Thickness to allow easy insertion of color printed card insert with screened back MG shield graphic. Sign Contractor to provide inserts for initial order according to the approved message schedule.

Directional text to be made of 3M Scotchcal (or equal) opaque vinyl applied to 1st surface. Use 2mm Matte Black 7725-22.

Arrow Directions: Left-pointing arrows shall be placed at the top, up-pointing arrows next, and right-pointing arrows at the bottom.

Message Font: Trebuchet MS Bold

Back plate:
1/16" sheet aluminum with a horizontal brushed finish.

Mounting plate:
1/8" thick clear acrylic indented 1/2" from back plate edges to facilitate future wall repairs and painting. Sign attached to the wall utilizing double-faced foam tape and clear silicone adhesive.

2 - Mounting Instructions:
Install 60" on center of the sign from finished floor.

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Sign Type J2
Small Wall Mounted Directionals

1 - Top Rail:
1/4" thick horizontal brushed aluminum.

Bottom Rail:
1/4" thick horizontal brushed aluminum with set screw to lock acrylic message panel in place.

Message Area:
1/8" thick clear matte acrylic with routed edges. Thickness to allow easy insertion of color printed card insert with screened back MG shield graphic. Sign Contractor to provide inserts for initial order according to the approved message schedule.

Directional text to be made of 3M Scotchcal (or equal) opaque vinyl applied to 1st surface. Use 2mm Matte Black 7725-22.

Arrow Directions: Left-pointing arrows shall be placed at the top, up-pointing arrows next, and right-pointing arrows at the bottom.

Message Font: Trebuchet MS Bold

Back plate:
1/16" sheet aluminum with a horizontal brushed finish.

Mounting plate:
1/8" thick clear acrylic indented 1/2" from back plate edges to facilitate future wall repairs and painting. Sign attached to the wall utilizing double-faced foam tape and clear silicone adhesive.

2 - Mounting Instructions:
Install 60" on center of the sign from finished floor.

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Sign Type K1
Overhead Directional and Dept. I.D.

1 - Mounting Bracket:
Brushed aluminum channel with matching end caps mechanically mounted to ceiling.

Sign Panel:
1" thick expanded light weight rigid foam PVC solid core material painted utilizing MAP “Brushed Aluminum” paint with a satin eggshell finish. Mechanically attach panel to aluminum channel with tamper proof screws, aluminum, natural finish.

Sign Message:
Black 3M Scotchcal vinyl copy surface applied both sides. Utilize white and red vinyl for Emergency messages only. White for text and red for background rule.

Message Insert Font: Trebuchet MS Bold

2 - Mounting Instructions: Typical mounting height shall be 80" minimum above finished floor as required by ADA.

Note: Mounting methods will vary depending on location. Show installation details, including details for securing members to one another, to building structures, and/or to site work. Show interior construction, reinforcements, anchorages, components and finishes. Reproduction of section drawings shown in the Design Drawings shall not be acceptable.

3 - Verify Existing Conditions:
The Sign Contractor shall inspect facility to confirm installation conditions, then submit shop drawings and/or written documentation for approval indicating proposed mounting devices. Take field measurements prior to preparation of shop drawings and fabrication to ensure proper fitting.
Sign Type J1
Large Wall Mounted Directionals

Sign Type J2
Small Wall Mounted Directionals

Sign Type K1
Overhead Directional and Dept. I.D.

Typical Installation Elevation
60” O.C. from finished floor to center of sign

Small Wall Mounted Directionals
Sign Type J2

Large Wall Mounted Directionals
Sign Type J1

Overhead Directional and Dept. I.D.
Sign Type K1

One Line Directional Layout

Two Line Directional Layout

3”

Department Identification Layout

5’-0”

Medical Evaluation Board

← Diagnostic Imaging

↑ Flight Medicine Clinic

↑ Facilities Management Command Section

↑ Diagnostic Imaging

↑ Mental Health

↑ Flight Medicine

↑ Women’s Health Clinic
Pharmacy

Pediatrics

← Women’s Health Clinic
Pharmacy

Pediatrics

← Diagnostic Imaging

Flight Medicine

← Diagnostic Imaging

↑ Flight Medicine Clinic

↑ Facilities Management Command Section
Wayfinding

SIGNAGE & WAYFINDING

Sign Type L1
Main Lobby Directory

1 - Illuminated Center Logo Graphic:
1/2” thick edge lighted glass with etched or sand blasted Medical Group (MDG) shield on the back side. Multiple layers and textures will be required to accurately reproduce the color MDG source artwork in an etched and edge lighted format.

Extruded aluminum frame retainer to have a brushed aluminum finish. Concealed light source shall utilize white LED modules or equal for uniform edge lighting. Provide an internal disconnect switch to facilitate service and all tools required for service access.

Note: Sign contractor shall submit a sample of the etched glass logo artwork for approval prior to fabrication.

2 - Installation Instructions:
Installation shall utilize concealed mechanical fasteners as required for the existing wall surface. Primary electrical service and in-wall blocking (if needed) provided by General D/B Contractor.

Sign Type L1 (con’t)
Main Lobby Directory

2 - Directory:
Brushed aluminum angle frame with a hinge at the top and clear non-glare tempered glass front. Provide a key lockable mechanism on the bottom. Provide a thin sheet metal face on the back panel to allow graphic boards to be held in place with magnetic tape.

Map and Directory Graphics:
High resolution digital output on photo card stock dry mounted on 3/16” foam “Gator” board and secured inside frame with magnetic tape.

Note: As a central point of information, building directories should be clearly marked and visible from a distance. They should establish the comfortable flow of information and provide visual cues to the user about how to locate and utilize future directories and other signage. For a multi-service line facility the directory should also orient and direct to the various clinic destinations throughout the campus via maps, legends and “You Are Here” location markers.

Campus area map directories should be located at the main entry within each building shown on the map. Users will expect to find the campus map along with facility information upon entering, and the directory becomes the first signage experienced by the user.

Sign Type M1
Secondary Orientation Directory

1 - Top Rail:
1/4” thick horizontal brushed aluminum.

Bottom Rail:
1/4” thick horizontal brushed aluminum with set screw to lock acrylic message panel in place.

Message Area:
1/8” thick clear matte acrylic with routed edges. Thickness to allow easy insertion of color printed 80lb card directional message inserts. Sign Contractor to provide inserts for initial order according to the approved message schedule.

Note: Sign contractor shall submit a sample of the etched glass logo artwork for approval prior to fabrication.

Back plate:
1/16” sheet aluminum with a horizontal brushed finish.

Mounting plate:
1/8” thick clear acrylic indented 1/2” from back plate edges to facilitate future wall repairs and painting. Sign attached to the wall utilizing double-faced foam tape and clear silicone adhesive.
Sign Type L1
Main Lobby Directory

Sign Type L1 (con't)
Main Lobby Directory

Sign Type M1
Secondary Orientation Directory

Typical installation elevation

Typical mounting elevation

Sample - Campus area orientation map artwork

Sample - Building orientation map artwork

Sample - Typical layout
**Sign Type N1**

**Chain of Command, Award Winners**

1. **Logo Shield:**
   - 5" tall by 1/2" thick clear acrylic with high resolution digital vinyl output graphics with protective matte overlaminate. Wall attachment to utilize aluminum studs and clear silicone adhesive.

2. **Individual Letters:**
   - 3" cap height by 3/8" thick horizontal brushed aluminum cut-out letters. Letters to attach to the wall with aluminum studs and clear silicone adhesive. See Sign Type P2 for details.

   For this sign type, the following heading messages are to be used...

   - Chain of Command
   - Annual Award Winners
   - Quarterly Award Winners

   Font is Trebuchet MS Bold

3. **Photo and Name Holders:**
   - Clear protective acrylic holder with flame polished edges. To be supplied by Sign Contractor and pre-approved by client. Holders to be secured to cable support system with stainless steel grippers as noted below.

   Stainless Steel Cable Support System:
   - EZ-Rod/Wire 3/64" Dia. Wire Assemblies as manufactured by Stand Off Systems (Gyford Productions) or approved equal.

   Holder Grippers:
   - Econo Vertical Gripper (1/4") as manufactured by Stand Off Systems (Gyford Productions) or approved equal.

**Sign Type N2**

**Chain of Command, Award Winners, Notice Board**

1. **Display Panel:**
   - Inset wall display with wood blocking and aluminum angle framing as required. Background panel to be MDO board (or equal) with Formica #4255 Micro Perf metal face from the DecoMetal Collection. Background panels to be held in place with a removable brushed aluminum angle frame.

   Logo Shield:
   - Construction to utilize 1/2" thick acrylic with 3M Scotchprint digital output graphics with protective matte overlaminate and painted edges.

2. **Individual Letters:**
   - 3/8" thick acrylic letters painted to match PMS 424 dark gray. Letters to attach to the background panel with 3M high bond double-sided tape and clear silicone adhesive. See Sign Type P2 for details.

   For this sign type, the following heading messages are to be used...

   - Chain of Command
   - Annual Award Winners
   - Quarterly Award Winners
   - Community Notices

   Font is Trebuchet MS Bold

3. **Photo and Name Holders:**
   - Clear non-glare acrylic faces with construction to allow photo or color printed name message inserts to be inserted from the top with concealed finger grip cut-outs on the back panel to facilitate easy removal.

**Sign Type N3**

**Chain of Command, Award Winners, Notice Board**

1. **Base Display Panel:**
   - 3M Scotchprint digital output vinyl mural with protective matte overlaminate. Digital graphic mural mounted on the first surface of .125 thick aluminum. Back and edges of the mounting panel to be brushed aluminum. Aluminum angle mounting on wall surface at top and bottom, with self-aligning angles on back of the aluminum graphic panel.

2. **Header Panel:**
   - Red bar fabricated from 3/4" thick expanded polyurethane solid core material or PVC equal painted on the first surface. White letters fabricated from 3/8" thick acrylic. Logo shields fabricated with 1 1/8" thick backgrounds (flush with face of letters) and high resolution digital output of logo shield artwork on the first surface.

3. **Photo and Name Holders:**
   - Clear non-glare acrylic faces with construction to allow photo or color printed name message inserts to be inserted from the top with concealed finger grip cut-outs on the back panel to facilitate easy removal.
**Sign Type N1**
Chain of Command, Award Winners

![Sign Type N1 Diagram]

**Sign Type N2**
Chain of Command, Award Winners, Notice Board

![Sign Type N2 Diagram]

**Sign Type N3**
Chain of Command, Award Winners, Notice Board

![Sign Type N3 Diagram]
Acrylic letters often offer advantages over traditional aluminum due to the following:

1. Less expensive to fabricate than aluminum.
2. Very comparable “look and feel” to aluminum.
3. Much lighter in weight making them easier to install and/or repair. Typically, there is no need to stud mount except for unusual wall conditions.

### Option A

- 3” high by 1/4” thick acrylic with a metal laminate face (horizontal brushed). Returns painted to match aluminum laminate front.
- Font: Trebuchet MS Bold

### Option B

- 3” high by 1/4” thick acrylic painted to match PMS 424u.
- If mounted to flush surface, use 3M high bond double-sided tape and clear silicone adhesive.
- For non-smooth surfaces, use aluminum studs and clear silicone adhesive.
- 1/8” spacers to be used to stand letters off the wall surface. Letters to have a clear matte polyurethane sealer applied for protection.
- Font: Trebuchet MS Bold

Notice Paper Holders:

- 1/8” thick clear acrylic, flame polished edges.
- Mount to base panel with 1/8” stainless steel pins. Holders to have thumb cut along top edge.

### Sign Type O1

**Notice Board**

1. Back Panels:
   - Fabricated from resin panel “Birch” manufactured by 3form or approved equal. Gauge is 1/2” (12mm) with radiused edges. The woodgrain shall be installed horizontally. Resin panel to have white painted background on the second surface. Corners to be rounded for safety.

   **Mounting:**
   - Installation shall utilize a point support system with stainless steel barrel spacers and fasteners.

   **Header Letters:**
   - Fabricated from 3/8” thick cut-out aluminum with a horizontal brushed finish. Letters to attach to the background panel with aluminum studs and mechanical fasteners.

   **Font:** Trebuchet MS Bold.

   **Notice Paper Holders:**
   - 1/8” thick clear acrylic, flame polished edges.
   - Mount to base panel with 1/8” stainless steel pins. Holders to have thumb cut along top edge.

### Sign Type P1

**Dimensional Lettering - Aluminum**

1. Individual Letters:
   - 3” high by 1/4” thick aluminum with a horizontal brushed finish attached with aluminum studs and clear silicone adhesive. 1/8” spacers to be used to stand letters off the wall surface. Letters to have a clear matte polyurethane sealer applied for protection.

   **Font:** Trebuchet MS Bold

### Sign Type P2

**Dimensional Lettering - Acrylic**

Acrylic letters often offer advantages over traditional aluminum due to the following:

1. Less expensive to fabricate than aluminum.
2. Very comparable “look and feel” to aluminum.
3. Much lighter in weight making them easier to install and/or repair. Typically, there is no need to stud mount except for unusual wall conditions.

#### Option A

- 3” high by 1/4” thick acrylic with a metal laminate face (horizontal brushed). Returns painted to match aluminum laminate front.

#### Option B

- 3” high by 1/4” thick acrylic painted to match PMS 424u.
Sign Type O1
Notice Board

4'-6"
Community Notices

9 1/2"
4'-6" x 9"
Notice Board

1/2"
1 1/2"
1/2" resin panel
Stainless steel hardware

Detail - Paper Holder

Front View

Sign Type P1
Dimensional Lettering - Aluminum

Sample - Option A

DROP-OFF

Sample - Option B

DROP-OFF

Sign Type P2
Dimensional Lettering - Acrylic

Letter Detail

Typical mounting elevation

1'-0"
9 1/2"
8 1/2" x 11" paper
message insert

Mounting Detail

Side View

Letter Detail
Art Work: Installation

- Most artwork used in medical treatment facilities today ranges in size from roughly 22"x30" up to 32"x40". The proper height at which to hang artwork is approximately 57 to 63 inches from the floor to the bottom of the top 1/3 of the picture. It is recommended to select a product that bolts to the wall at all four corners. A three-point system anchored at the bottom center allows a thief to reach underneath the corners and get enough leverage to remove the piece from the wall.

For Typical Spaces:

1. For larger framed artwork, the top of the frame should align with the top of the door.
2. The center line of the piece of artwork should sit approximately 5' above the floor.
3. The bottom of the frame should be no higher than 16" from a handrail.

Art Work: Overview

- Far beyond the role of beautification, artwork in healthcare spaces must be therapeutic. Images that impact the appropriate messages such as hope, dignity, and joy, enhance the healing process. They send a subliminal signal to the patient that his or her well being is the caregiver’s primary concern. It is the therapeutic value of art that gives it a marketing and public relations value.

- Art for healthcare should not be an afterthought, it needs to be planned, coordinated and implemented by competent professionals who make healthcare their business.

- When selecting artwork, choose art that most people will relate well with. Choices should not be based on the personal tastes of the selector.

- Giclee artwork on canvas is strongly recommended.

- When matting artwork, avoid using three or four mats. Single and double mats are not only cost-effective, but are more tasteful and professional. For the longest longevity, select white, off-white, or a very soft neutral color for the outer mat and accent colors for the inner mat. Choose mats that range from 3" to 3-1/2" in width.

- Acrylic glazing should never be cleaned with paper towels because it scratches easily.

- Extruded aluminum moldings should be scratch, flake, and peel resistant. They should also have a lip that is at least 1/4" wide so the glass will be held securely in the frame and not pop out of place.

- Artwork backing boards should have a hard, smooth surface such as foam board. Never use corrugated cardboard for artwork backing.

- When ordering artwork, an installation schedule and location plan should also be provided.

Art Work: Public Areas

- Public areas need artwork with the broadest general appeal.

- Artwork in corridors should be large, between 26x30 and 32x40 inches. Because medical treatment facilities typically have long, wide corridors, artwork used in these corridors needs to be larger than artwork used in offices. It is also recommended to hang artwork vertically in corridors. Still life, landscape, black and white, and architecture images are a good choice in corridors as they provide enough interest to look at and then move on.

- Public dining areas should display tranquil, restful images that can provide relaxation for both staff and visitor.

- Admission areas should have artwork with warm inviting colors that is comforting to the new patient who may be anxious.

- In patient rooms, use artwork with subject matter to which the patient can relate. A desert sunset in a South Florida hospital, or a lush tropical scene in the Midwest, does nothing to create confidence in the hospital or procedures being performed, since they do not communicate a reality-based environment. A variety of colors, as opposed to a monochromatic palette, give more interest to the piece of art. Pattern and detail also add to the length of time a patient will find artwork interesting. Private rooms need one piece of artwork ranging from 22"x30" to 28"x34".

- In patient rooms, it is pleasant to place a picture at the end of each bed in a semiprivate room. However, if the budget does not permit the use of two pieces, then one picture should be centered between the two beds. Artwork should be sharp enough to be viewed without prescription glasses from the head of the bed.
Guiding Principles:

Art Work: Speciality Areas

- In pediatric rooms, because a patient’s age can range from a few months to the teens, the art should have a childlike quality in style while maintaining a broad range of appeal as age is a concern. Primary colors are best for very young children since they are developmentally able to perceive the intensity of these colors much sooner than they are able to discriminate the more subtle shadings and variations associated with secondary colors.

- In intensive care and concentration care units, because wall-mounted equipment leaves little to no wall space, it is often difficult to locate art in the patient rooms. However, the presence of a few pieces in the corridors can send a comforting message to family members.

- Consult rooms, regardless of the department, require quiet, dignified images that impart the hospital’s concern and care for the patient and family during a time of crisis.

- In physicians lounges, artwork should be nice and framed creating a residential feeling.

Art Work: Private Areas

- In X-ray areas, do not pierce lead walls with drills. Magnetic resonance imaging (MRI) areas need to have art mounted without using metal hardware. Ideally, all art for MRI units should be framed in wood without using metal of any kind.

Art Work: Speciality Areas

- In clinical procedure areas, pictures of food, such as a still life of fruit, should be avoided. This includes any area where patients have been required to fast prior to procedures, such as outpatient waiting areas, endoscopy rooms, or cardiac cath labs. In addition, the art selected should help to reduce patient anxiety. Because procedures can take a long time, it is helpful when the art has sufficient pattern and detail to hold the patient’s attention for more than a few seconds. Images of water should not be used in ultrasound rooms.

- In labor, delivery, and recovery rooms (LDRP), artwork that displays humorous photographs of babies and children gives the woman in labor something to focus on.

- In postpartum patient rooms, artwork should display images that show the happier side of motherhood to help divert a new mother’s attention from the unpleasantness associated with the birth process and help her focus on the happier aspects of motherhood.

- In neonatal areas, artwork that is associated with pictures of babies should be avoided because of the sensitive aspects of treatment in this area. Soothing, dignified, and non-figurative pieces with pattern and detail may be more appropriate.

Plants

- Maintenance contracts should be considered for artificial plants. Silk plants, like real plants, need to be maintained and cleaned. Silk plants collect dust which can in turn contribute to poor indoor air quality. Housekeeping will not maintain these plants and as a result, a company needs to be contracted to maintain these plants regularly.

- Evidence based design has shown the positive effects of the use of plants within a space.

- When selecting silk plants, there are several things to consider. Do you want them close to where people can touch them or away from the reach of people passing by? How do they sit in the location? Is it in a pot or is it permanently placed in a planting bed? What type of ground cover for the base of the plant do you want? Depending on the location, mulch or gravel may not be a good ground cover because they can become projectiles. Moss or other similar ground cover may be more suitable for the space.
3D Art Mobiles

ARTWORK

Manufacturer: Creative Arts
Collection: Variety

Image A
Artist: Creative Arts Unlimited, Inc.
Title: Air Garden 1.7, Kinetic Aerial Sculpture
Materials: Stainless steel, aluminum, polyurethane, polycarbonate
Dimensions: 24' x 16' x 11'

Image B
Artist: Creative Arts Unlimited, Inc.
Title: Air Play 11, Kinetic Aerial Sculpture
Materials: Stainless, aluminum, polyurethane
Dimensions: 25' x 30' x 16'

Image C
Artist: Creative Arts Unlimited, Inc.
Title: River Garden 1, Kinetic Aerial Sculpture
Materials: Stainless steel, aluminum, polyurethane, polycarbonate
Dimensions: 18' x 50' x 20'

Image D
Title: Red Stones 3, Kinetic Aerial Sculpture
Materials: Stainless steel, aluminum, polyurethane
Dimensions: 6' x 9' x 9'

Image E
Title: Air Garden 7.2, Kinetic Aerial Sculpture
Materials: Stainless steel, aluminum, polyurethane, polycarbonate
Dimensions: 8' x 53' x 11'

Image F
Title: Stream Through Yellowstone, Kinetic Aerial Sculpture
Materials: Aluminum, stainless, polyurethane
Dimensions: 6' x 15' x 30'

Refer to manufacturer for warranty and testing info.

Manufacturer: The Art Resource
Collection: Ristau

Image A
Title: Air Garden 1.7, Kinetic Aerial Sculpture
Materials: Stainless steel, aluminum, polyurethane, polycarbonate
Dimensions: 24' x 16' x 11'

Image B
Title: Air Play 11, Kinetic Aerial Sculpture
Materials: Stainless, aluminum, polyurethane
Dimensions: 25' x 30' x 16'

Image C
Title: River Garden 1, Kinetic Aerial Sculpture
Materials: Stainless steel, aluminum, polyurethane, polycarbonate
Dimensions: 18' x 50' x 20'

Image E
Title: Air Garden 7.2, Kinetic Aerial Sculpture
Materials: Stainless steel, aluminum, polyurethane, polycarbonate
Dimensions: 8' x 53' x 11'

Image F
Title: Stream Through Yellowstone, Kinetic Aerial Sculpture
Materials: Aluminum, stainless, polyurethane
Dimensions: 6' x 15' x 30'

Refer to manufacturer for warranty and testing info.

Manufacturer: The Art Resource
Collection: Rob Fisher

Image A
Title: Aerial Echoes, 2007
Title: Sands Hotel, Macau
Materials: Powder coated perforated aluminum, stainless steel bead chain
Dimensions: 16 1/2 Diameter x 6 1/2 H

Image B
Title: Sunbirds, 2007
Title: Sands Hotel, Macau
Dimensions: 9 1/2 Diameter x 6 1/2 H

Image C
Title: Tulip Cloud, 2005
Title: North Colorado Medical Center, Greeley, Colorado
Dimensions: 25' x 25' x 45' high. Each cloud 5' x 10'

Image D
Title: Dream Scape
Title: Reid Hospital, Richmond, IN
Dimensions: 20'H x 40'L x 20'W

Image E
Title: Dream Scape Night, 2007
Title: Reid Hospital, Richmond, IN
Dimensions: 20'H x 40'L x 20'W

Image F
Title: Islands in the Sky, Wake Med Hospital, Cary, NC
Dimensions: 18'D x 24'W x 16'H

Refer to manufacturer for warranty and testing info.
ARTWORK
3D Art Mobiles

Manufacturer: Creative Arts
Collection: Varies

Manufacturer: The Art Resource
Collection: Ristau

Manufacturer: The Art Resource
Collection: Rob Fisher

Ordering Information for Creative Artist
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Pinellas Park, FL 33781
Phone: 727.525.2066
Fax: 727.525.8889

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Refer to manufacturer for warranty and testing info. Refer to manufacturer for warranty and testing info. Refer to manufacturer for warranty and testing info.

Manufacturer: The Art Resource
Collection: John Roper

Image A
Title: Untitled #1100
Materials: Black iron and copper plated rod with 3 different textures
Dimensions: 36"H x 48"W

Image B
Title: Untitled #2206
Materials: Bronze
Dimensions: 16"H x 24"W

Image C
Title: Untitled 2213
Materials: Bronze
Dimensions: 33"H x 17"W

Image D
Title: Untitled #2752
Material: Bronze
Dimensions: 28 ½"H x 40"W

Image E
Title: Untitled #2193
Materials: Bronze
Dimensions: 24" x 24"

Image F
Title: Untitled #2693
Materials: Black iron with Copper rod
Dimensions: 15 ½" H x 36 ½" W x 9" D

Note: All above sculptures can be custom sized.

Manufacturer: The Art Resource
Collection: Jonathan Cox

Image A
Title: D 1 Front: "The Discovery II"
Materials: Marble and Poplar
Dimensions: 9 ½ x 4' x 18"

Image B
Title: D 1 Back
Materials: Marble and poplar
Dimensions: 9 ½ x 4' x 18"

Image C
Title: "Ascent of Knowledge"
Materials: Mahogany and marble
Dimensions: 10'-8" H x 3'-4"W x 2'-4"D

Image D
Title: "Ascent of Knowledge"
Materials: Mahogany and marble
Dimensions: 10'-8"H x 3'-4"W x 2'-4"D

Image E
Title: "Growth from Within"
Materials: Birch, mahogany and ebony
Dimensions: 5'-2" x 11'-4" x 9'

Image F
Title: "Icicles in the Snow"
Materials: Mahogany, marble and obsidian
Dimensions: 12'-9" x 5'-8" x 23"

Note: All above sculptures can be custom sized.

Manufacturer: The Art Resource
Collection: Variety

Image A
Artist: Creative Arts Unlimited, Inc.
Title: Bishop Planetarium (Column)
Materials: Anigre veneer inlaid with brushed metal, mahogany hardwood, custom resin and upholstery, hand-painted ceiling mural.
Dimensions: 4200 sq. ft. with 15' ceiling

Image B
Artist: Creative Arts Unlimited, Inc.
Title: Bishop Planetarium (Lobby)
Materials: Anigre veneer inlaid with brushed metal
Dimensions: 4200 sq. ft. with 15' ceiling

Image C
Artist: Creative Arts Unlimited, Inc.
Title: Bishop Planetarium (Wall Panel Detail)
Materials: Anigre veneer inlaid with brushed metal
Dimensions: 4200 sq. ft. with 15' ceiling

Image D
Artist: Creative Arts Unlimited, Inc.
Title: Ringling College Digital Film School Lobby
Materials: Acrylic and euro-core plywood
Dimensions: 1500 sq. ft.

Image E
Artist: Creative Arts Unlimited, Inc.
Title: Ringling College Digital Film School Lobby
Materials: Acrylic, stained euro-core plywood, black sintra
Dimensions: 1500 sq. ft.
Manufacturer: The Art Resource
Collection: John Roper

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Manufacturer: The Art Resource
Collection: Jonathan Cox

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Manufacturer: Creative Arts
Collection: Variety

Ordering Information for Creative Arts
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Pinellas Park, FL 33781
Phone: 727.525.2066
Fax: 727.525.8689
Manufacturer: The Art Resource
Collection: Variety

Image A
Artist: Erin Clark
Title: "Over the Meadow"
Materials: Printed on poster paper, giclee paper or canvas.
Dimensions: 21 ½ x 26 ½, 26 ½ x 32 ½, 37 ½ x 44 ½, 33 ½ x 54 ½

Image B
Artist: Ren
Title: #R1340 "Solo Floating on Ottawa River"
Dimensions: 12” x 12”, 16” x 16”, 24” x 24”, 30” x 30”, 40” x 40”, 48” x 48”

Image C
Artist: Ren
Title: #R1343 "Sunset on Ottawa River, Study #2"
Dimensions: 11” x 14”, 16” x 20”, 24” x 30”, 26” x 35”, 40” x 50”, 48” x 60”

Image D
Artist: Ren
Title: #R1345 "Sunset on Ottawa River, Study #3"
Dimensions: 11” x 14”, 16” x 20”, 24” x 30”, 26” x 35”, 48” x 60”

Image E
Artist: Ren
Title: #R1346 "Sunset on Ottawa River, Study #4"
Dimensions: 11” x 14”, 16” x 20”, 24” x 30”, 28” x 35”, 48” x 60”

Image F
Artist: Lly Szilagyi
Title: #SIP204 "Take My Lead"
Dimensions: 36” x 24”

Refer to manufacturer for warranty and testing info.

Manufacturer: American Art Resource
Collection: Variety

Image A
Artist: Carl Krabill
Title: "Bluebells in the Devon Woods"
Materials: Acrylic on Canvas
Dimensions: 50” x 30”

Image B
Artist: Chris Nissen,
Title: "Forsythia"
Materials: Oil on Canvas
Dimensions: 44” x 40”

Image C
Artist: Carl Krabill
Title: "Shoreline"
Materials: Acrylic on Canvas
Dimensions: 50” x 30”

Image D
Artist: Junko Ono Rothwell
Title: "North Georgia"
Materials: Oil on Canvas
Dimensions: 90” x 62”

Image E
Artist: W. Cody
Title: "Ripples on Pond"
Materials: Photography on paper or canvas
Dimensions: Up to 60” x 40”

Image F
Artist: Remi Benali
Title: "Surf on Bali Beach"
Materials: Photography on paper or canvas
Dimensions: Up to 60” x 40”

Refer to manufacturer for warranty and testing info.

Manufacturer: American Art Resource
Collection: Variety

Image A
Artist: Unknown Artist
Title: "Flower"
Materials: Photography on paper or canvas
Dimensions: Up to 60” x 40”

Image B
Artist: Unknown Artist
Title: "Flower"
Materials: Photography on paper or canvas
Dimensions: Up to 60” x 40”

Image C
Artist: Simon Jarrat
Title: "Toddler in High Heels"
Materials: Photography on paper or canvas
Dimensions: Up to 60” x 40”

Image D
Artist: Unknown Artist
Title: "Flower"
Materials: Photography on paper or canvas
Dimensions: Up to 60” x 40”

Image E
Artist: Ann Parks
Title: "Splendor"
Materials: Photography on paper or canvas
Dimensions: 40” x 27”

Image F
Artist: Natalie Fobes
Title: "Young Woman Standing Next to Window, Smiling"
Materials: Photography on paper or canvas
Dimensions: Up to 60” x 40”

Refer to manufacturer for warranty and testing info.

Manufacturer: American Art Resource
Collection: Variety

Image A
Artist: Carl Krabill
Title: "Bluebells in the Devon Woods"
Materials: Acrylic on Canvas
Dimensions: 50” x 30”

Image B
Artist: Chris Nissen,
Title: "Forsythia"
Materials: Oil on Canvas
Dimensions: 44” x 40”

Image C
Artist: Carl Krabill
Title: "Shoreline"
Materials: Acrylic on Canvas
Dimensions: 50” x 30”

Image D
Artist: Junko Ono Rothwell
Title: "North Georgia"
Materials: Oil on Canvas
Dimensions: 90” x 62”

Image E
Artist: W. Cody
Title: "Ripples on Pond"
Materials: Photography on paper or canvas
Dimensions: Up to 60” x 40”

Image F
Artist: Remi Benali
Title: "Surf on Bali Beach"
Materials: Photography on paper or canvas
Dimensions: Up to 60” x 40”

Refer to manufacturer for warranty and testing info.
Manufacturer: The Art Resource
Collection: Variety

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Manufacturer: The Art Resource
Collection: Variety

**Image A**
Artist: Maeve Harris  
Title: Artwork #H1289  
Materials: Open edition print  
Dimensions: 46"x35"

**Image B**
Artist: Le Visite Rodriguez  
Title: Artwork #R891  
Materials: Open edition print  
Dimensions: 18"x18"

**Image C**
Artist: Le Visite Rodriguez  
Title: Artwork R892  
Materials: Open edition print  
Dimensions: 18"x18"

**Image D - F**
Artist: Kraft  
Title: K892, K893, K894 “Watery Grasses 1, 2, 3”  
Materials: Prints on demand, printed on poster paper, giclee paper or canvas  
Dimensions: 20"x28"

**Image A**
Title: LK122

**Image B**
Artist: Gretchen Hess  
Title: #HG108 “Through the Fields II”  
Materials: Print on fine art paper or varnished canvas, canvas can be embellished  
Dimensions: 18"x18", 24"x24", 36"x36", 48"x48"

**Image C**
Artist: Kent Lovelace  
Title: LK118 “Issegiac”  
Materials: Print on fine art paper or varnished canvas  
Dimensions: 18"x18", 24"x24", 36"x36", 48"x48"

**Image D**
Artist: Kent Lovelace  
Title: #LK105 “Arnay Le Duc”  
Materials: Print on fine art paper or varnished canvas, canvas can be embellished  
Dimensions: 18"x24", 24"x32", 30"x40, 45"x60"

**Image E**
Artist: Acee  
Title: #ACP204 “Woodlands I and II”  
Materials: Posters or giclees on canvas  
Dimensions: 24"x18"

**Image F**
Artist: Kent Lovelace  
Title: #LK117 “Noyer”  
Materials: Print on fine art paper or varnished canvas, canvas can be embellished  
Dimensions: 18"x24", 24"x32", 30"x40, 45"x60"
Manufacturer: The Art Resource
Collection: Variety

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Manufacturer: American Art Resource
Collection: Variety

**Image A**
Artist: Unknown Artist
Title: “Cooks Bay Moorea”
Materials: Photography
Dimensions: Up to approx. 60”x40”

**Image B**
Artist: Unknown Artist
Title: M1882 “Building”
Materials: Print
Dimensions: 8”x8” poster print or up to 30”x30” giclee or canvas print.

**Image C**
Artist: Mike Grandmaison
Title: “Autumn Color Reflected in Rushing Water.”
Materials: Photography
Dimensions: Up to approx. 60”x40”

**Image D**
Artist: Jonathan Safrir
Title: “Orange Orchids”
Materials: Photography
Dimensions: Up to approx. 60”x40”

**Image E**
Artist: Cindy Kassab
Title: “Fall Foliage Along a River”
Materials: Photography
Dimensions: Up to approx. 60”x40”

**Image F**
Artist: Jorma Jamsen
Title: “Small Waterfall”
Materials: Photography
Dimensions: Up to approx. 60”x40”

Refer to manufacturer for warranty and testing info.

Manufacturer: American Art Resource
Collection: Sea Glass

**Image A**
Artist: Pearson
Title: #P1075 “Sea Glass”
Materials: Printed on demand, poster paper, giclee paper or canvas
Dimensions: 10”x10”, 24”x24”, 30”x30”, 40”x40”, 48”x48”

**Image B**
Artist: Pearson
Title: #P1076 “Sea Glass”

**Image C**
Artist: Pearson
Title: #P1077 “Spanish Sea Glass”
Dimensions: 10”x10”, 24”x24”, 30”x30”, 40”x40”, 48”x48”

**Image D**
Artist: Pearson
Title: #P1081 “Sea Glass – Softy Rounded”
Dimensions: 12”x12”, 16”x16”, 24”x24”, 30”x30”, 40”x40”, 48”x48”

**Image E**
Artist: Pearson
Title: #P1074 “Sea Glass”
Dimensions: 10”x10”, 24”x24”, 30”x30”, 40”x40”, 48”x48”

Refer to manufacturer for warranty and testing info.
Manufacturer: American Art Resource
Collection: Variety

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Manufacturer: American Art Resource
Collection: Variety

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Manufacturer: The Art Resource
Collection: Sea Glass

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ACCESSORIES

- Water Features
- Waste Cans
- Magazine Racks & Chart Holders
Manufacturer: Peter Pepper Products
Collection: 4001H, 4006H, 4031H, 4091, 13115H

Image A
Model #: 4001H
Dimensions: 12 3/4" w x 14" h x 2" d
Front panel color: Available in any PPP color

Image B
Model #: 4013H
Dimensions: 16" w x 12 1/2" h x 2 3/4" d
Nominal Pocket ID: 15 3/4"w x 12 1/2"h x 1 3/4"d

Image C
Model #: 4091
Dimensions: 14" w x 14 1/8" h x 4" d
Nominal Pocket ID: 13 3/8"w x 9 1/4"h x 2 1/4"d
Front Retainer: Pivoting steel

Image D
Model #: 4013115H
Dimensions: 13 3/4" w x 11" h x 1 1/2" d
Nominal Pocket ID: 13"w x 10 1/2"h x 1 1/4"d
Front Retainer Height: 10" h

Image E
Model #: 4006H
Dimensions: 12 1/2" w x 15 1/2" h x 2" d
Front Panel Style: Squares
Front Retainer: 10" h

Manufacturer: Peter Pepper Products
Collection: MR-Z, MR-8, MR-12

Image A
Model #: MR-Z
Dimensions: 14" w x 57" h x 12" d
Frame: Natural anodized aluminum extrusion
Acrylic Pocket: 8 1/2"w x 11 5/8"h x 3/16" thick
Retainer Lip: 1 1/8"h

Image B
Model #: MR-8
Dimensions: 23" w x 63" h x 20" d
Frame Finish: Natural anodized aluminum extrusion
Shelf: Acrylic open shelf 3/16" thick, 1 3/8" deep
Casters: Base includes 2" locking casters

Image C
Model #: MR-12
Dimensions: 30" w x 63" h x 20" d
Frame Finish: Natural anodized aluminum extrusion
Shelf: Acrylic open shelf 3/16" thick, 1 3/8" deep
Casters: Base includes 2" locking casters

Manufacturer: Peter Pepper Products
Collection: MR-Z, MR-8, MR-12

Image A
Model #: 4031
Dimensions: 12 3/4" w x 14" h x 2 1/2" d
Back Panel Finish: Available in any wood finish
Pocket Color: Available in any PPP color
Nominal Pocket ID: 12-3/4"w x 9"h x 2"d

Image B
Model #: 4052
Dimensions: 11 1/2" w x 36" h x 3 1/2" d
Pockets: (2) Side-loading, (1) Top-loading
Clear Acrylic Front Retainer: 1/4" thick

Image C
Model #: 4091
Dimensions: 14" w x 14 1/8" h x 4" d
Nominal Pocket ID: 13 3/8"w x 9 1/4"h x 2 1/4"d
Front Retainer: Pivoting steel

Image D
Model #: 4013115H
Dimensions: 13 3/4" w x 11" h x 1 1/2" d
Nominal Pocket ID: 13"w x 10 1/2"h x 1 1/4"d
Front Retainer Height: 10" h

Image E
Model #: 4006H
Dimensions: 12 1/2" w x 15 1/2" h x 2" d
Front Panel Style: Squares
Front Retainer: 10" h

Refer to manufacturer for warranty, testing and sustainability info.
GUIDING PRINCIPLES

Water Features

- Component Hardware Group (CHG), a leading manufacturer and distributor of plumbing and specialty hardware components to the healthcare industry announced in November, 2007 that ACCENTS IN WATER, a division of Krippenburg Manufacturing based in Englewood, Colorado is utilizing CHG’S SANIGUARD (registered trademark) ® antimicrobial treatment to stay ahead of the competition by keeping their customized water features free of bacteria, mold and viruses.

- Signature indoor waterfalls and other fountains created by ACCENTS IN WATER have been shown to promote a healthy working environment by harnessing the soothing and air-purifying benefits of water. With safe water being a key area of concern, particularly in healthcare and medical treatment facility settings due to the high incidence of medical treatment facility acquired infections (HAISs), various tests were conducted to support the company’s healthful claims.

- SANIGUARD is a proven, cost-effective, inorganic antimicrobial treatment that utilizes a silver ion-based technology to retard the growth of bacteria, molds and some viruses on treated surfaces such as tanks, faucet handles, door knobs, flush handles and other touch points for the life of the product. The proprietary coating is currently the only antimicrobial treatment to meet the National Sanitation Foundation (NSF) Protocol P345 for antimicrobial efficacy.

- According to studies conducted by Dr. Mark Hernandez, PhD, P.E., of the University of Colorado, School of Engineering, the water reservoir at the base of ACCENTS IN WATER Products, when coated with SANIGUARD antimicrobial treatment and used in conjunction. With ACCENTS IN WATER UV light sterilization technology, remained free of bacteria, molds and viruses.
Collection: Model 282, 662, 1093, 1037

**Image A**
Collection: Model 282  
Dimensions: 10" dia. x 24" h  
Overall Height: 24"  
Use: Indoor

**Image B**
Collection: Model 662  
Dimensions: 10" dia. x 15" h  
Use: Indoor

**Image C**
Collection: Model 1093  
Dimensions: 18" dia. x 32" h  
Capacity: 35 Gallons  
Use: Indoor/Outdoor

**Image D**
Collection: Model 1037  
Dimensions: 36" w x 32" h x 16" d  
Capacity: 80 Gallons  
Use: Indoor/Outdoor

Manufacturer: Magnuson Group
Collection: Basic-Eco, Drac, Acropolis, Pandora

**Image A**
Collection: Basic-Eco  
Dimensions: 14.75" x 25"  
Capacity: 6.86 gal., 2.91 gal., 2.91 gal  
Overall Height: 25-9/16"  
Use: Indoor/Outdoor

**Image B**
Collection: Drac  
Dimensions: 16" x 33"  
Capacity: 12.9 gal.  
Use: Indoor/Outdoor

**Image C**
Collection: Pandora  
Dimensions: 11"-19" x 8"-11" x 13"-34"  
Capacity: 10.6 gal., 15.9 gal., 30 gal.  
Use: Indoor/Outdoor

**Image D**
Collection: Acropolis  
Dimensions: 6"-10" dia. x 9"-25" h  
Capacity: 10.6 gal., 15.9 gal., 30 gal.  
Use: Indoor/Outdoor

Collection: Triad, Universal, and Transit Receptacles

**Image A**
Collection: Triad Receptacle  
Dimensions: 32" h x 18" w per side x 15.5" d  
Capacity: 16 gal.  
Use: Indoor

**Image B**
Collection: Universal Receptacles  
Dimensions: Varies  
Capacity: Varies  
Use: Indoor/Outdoor

**Image C**
Collection: Transit Receptacle  
Dimensions: 36.2" h x 40.73" w x 19.3" d  
Capacity: 3 x 20 gal. (60 gal. total)  
Use: Indoor/Outdoor

**Image D**
Collection: Square Litter Receptacle  
Dimensions: (26 gal.) 18.38" each side x 32" h  
Dimensions: (36 gal.) 21.88" each side x 32.75" h  
Capacity: 24 & 36 gal.  
Use: Indoor

**Image E**
Collection: Universal Family - Bottle & Can Recycler  
Dimensions: (26 gal.) 19.25" dia. x 41.50" h

**Image F**
Collection: Universal Family - Litter Receptacle  
Dimensions: (36 gal.) 23" dia. x 42.50"
Manufacturer: Peter Pepper Products
Collection: Model 282, 662, 1093, 1037

Manufacturer: Magnuson Group
Collection: Basic-Eco, Drac, Acropolis, Pandora

Manufacturer: Forms and Surfaces
Collection: Triad, Universal, and Transit Receptacles
Manufacturer: Peter Pepper Products
Collection: 4001H, 4006H, 4031H, 4091, 13115H

Image A
Model #: 4001H
Dimensions: 12 3/4" w x 14" h x 2" d
Front panel colors: Available in any PPP color

Image B
Model #: 4013H
Dimensions: 16" w x 12 1/2" h x 2 3/4" d
Nominal Pocket ID: 15 3/4" w x 12 1/2" h x 1 3/4" d

Image C
Model #: 4091
Dimensions: 14" w x 14 1/8" h x 4" d
Nominal Pocket ID: 13 3/8" w x 9 1/4" h x 2 1/4" d
Front Retainer: Pivoting steel

Image D
Model #: 4013115H
Dimensions: 13 3/4" w x 11" h x 1 1/2" d
Nominal Pocket ID: 13" w x 10 1/2" h x 1 1/4" d
Front Retainer Height: 10" h

Image E
Model #: 4006H
Dimensions: 12 1/2" w x 15 1/2" h x 2" d
Front Panel Style: Squares
Front Retainer: 10" h

Refer to manufacturer for warranty, testing and sustainability info.

Manufacturer: Peter Pepper Products
Collection: MR-Z, MR-8, MR-12

Image A
Model #: MR-Z
Dimensions: 14" w x 57" h x 12" d
Frame: Natural anodized aluminum extrusion
Acrylic Pocket: 8 1/2" w x 11 5/8" h x 3/16" thick
Retainer Lip: 1 1/8" h

Image B
Model #: MR-8
Dimensions: 23" w x 63" h x 20" d
Frame Finish: Natural anodized aluminum extrusion
Shelf: Acrylic open shelf 3/16" thick, 1 3/8" deep
Casters: Base includes 2" locking casters

Image C
Model #: MR-12
Dimensions: 30" w x 63" h x 20" d
Frame Finish: Natural anodized aluminum extrusion
Shelf: Acrylic open shelf 3/16" thick, 1 3/8" deep
Casters: Base includes 2" locking casters

Manufacturer: Peter Pepper Products
Collection: MR-Z, MR-8, MR-12

Image A
Model #: 4031
Dimensions: 12 3/4" w x 14" h x 2 1/2" d
Back Panel Finish: Available in any wood finish
Pocket Color: Available in any PPP color
Nominal Pocket ID: 12 3/4" w x 9" h x 2" d

Image B
Model #: 4052
Dimensions: 11 1/2" w x 36" h x 3 1/2" d
Pockets: (2) Side-loading, (1) Top-loading
Clear Acrylic Front Retainer: 1/4" thick

Image C
Model #: 4091
Dimensions: 14" w x 14 1/8" h x 4" d
Nominal Pocket ID: 13 3/8" w x 9 1/4" h x 2 1/4" d
Front Retainer: Pivoting steel

Manufacturer: Peter Pepper Products
Collection: MR-Z, MR-8, MR-12

Image A
Model #: MR-Z
Dimensions: 14" w x 57" h x 12" d
Frame: Natural anodized aluminum extrusion
Acrylic Pocket: 8 1/2" w x 11 5/8" h x 3/16" thick
Retainer Lip: 1 1/8" h

Image B
Model #: MR-8
Dimensions: 23" w x 63" h x 20" d
Frame Finish: Natural anodized aluminum extrusion
Shelf: Acrylic open shelf 3/16" thick, 1 3/8" deep
Casters: Base includes 2" locking casters

Image C
Model #: MR-12
Dimensions: 30" w x 63" h x 20" d
Frame Finish: Natural anodized aluminum extrusion
Shelf: Acrylic open shelf 3/16" thick, 1 3/8" deep
Casters: Base includes 2" locking casters

Manufacturer: Peter Pepper Products
Collection: 4031, 4004, 4013, 4052, 4081

Image B
Model #: 4052
Dimensions: 11 1/2" w x 36" h x 3 1/2" d
Pockets: (2) Side-loading, (1) Top-loading
Clear Acrylic Front Retainer: 1/4" thick

Image C
Model #: 4004
Dimensions: 12 3/4" w x 52" h x 2" d
Front Panel: 10" w x 7 1/4" h
Front Panel Style: Slots, holes, squares

Manufacturer: Peter Pepper Products
Collection: 4031, 4004, 4013, 4052, 4081

Image E
Model #: 4031
Dimensions: 16" w x 12 1/2" h x 2 3/4" d
Back Panel Color: Any textured PPP color
Retainer Finish: Available in any wood finish

Refer to manufacturer for warranty, testing and sustainability info.
Manufacturer: Peter Pepper Products
Collection: 4001H, 4006H, 4031H, 4091, 13115H

Manufacturer: Peter Pepper Products
Collection: MR-Z, MR-8, MR-12

Manufacturer: Peter Pepper Products
Collection: 4031, 4004, 4013, 4052, 4081
ADA - The Americans with Disabilities Act is civil rights legislation that was first signed into law in July 1990. The guidelines supporting the law were issued in July 1991 by the Architectural Transportation Barriers Compliance Board (ATBCB). The intent of the law is to broadly protect the civil rights of disabled individuals and prohibit discrimination in employment and access to goods and services.

ADAAG - Americans with Disabilities Act Accessibility Guidelines

ANSI - American National Standards Institute

Ashlar Laid Carpet Tile - Tiles laid in an ashlar installation are laid so that the front and back tile joints are offset.

ASTM - American Society of Testing and Materials

Beck Dyed - The beck dye process is a method of batch dyeing carpet. This process is used for solid color carpets and carpets that use yarns of different dyeabilities. Beck dyeing achieves excellent color uniformity throughout the carpet.

BIFMA Standards - Business and Institutional Furniture Manufacturer's Association

Braille - A writing system for vision-impaired or sightless people, consisting of patterns of raised dots that are read by touch.

Brick Laid Carpet Tile - Brick installations offset the side joints of the tiles.

Cal 133 Fire Protection - The CAL 133 test is designed to evaluate the resistance of seating furniture for use in public occupancies to open-flame ignition.

California CHPS - CHPS (California High Performance Schools) oversees the nation's first green building rating program especially designed for K-12 schools.

Carpet Density - Carpet Density is determined by how close together the strands of the carpet fiber are at the base of the carpet; the closer the strands, the more dense the carpet.

Carpet Pile Height - Also known as the nap, pile height is the length of the tuft measured from the primary backing to the yarn tips. Usually shorter pile heights are more durable than longer pile heights.

Ceiling Attenuation Class (CAC) - A measure for rating the performance of a ceiling system as a barrier to airborne sound transmission through a common plenum between adjacent closed spaces such as offices. A ceiling system with a CAC < 25 is considered low performance, whereas one with CAC > 35 is high performance.

Ceiling System Grid - A suspended grid from the above structure that holds the ceiling tiles in place and creates a ceiling plane. This system allows for more flexibility than a drywall ceiling.

CID - COMPREHENSIVE INTERIOR DESIGN: Furniture-related package, funded with OMA, O&M or initial outfitting dollars. A submittal with furniture illustrations, fabric & finish samples, footprint plans, furniture and artwork/accessories ordering information. Purchased by the MEDCOM installation and not the construction contractor. CID packages are not referenced in the construction/contract documents.

COM - Customers Own Material. Customer can provide their own material not provided by manufacturer, i.e. upholstery. Typically used when ordering upholstery that is not graded into a seating line.

Continuous Dyed Carpet - A method of continuously dyeing carpet. In commercial carpet, printing is the most popular method of continuous ng.

Cradle to Cradle GREENGUARD™ certified - Cradle-to-cradle is a certification system, established by architect William McDonough, which evaluates products by measuring positive impacts on the environment, human health, and social equity. Products should be designed so that when they are no longer useful, they provide fuel for new products or natural cycles, eliminating waste.

Crypton - A proprietary finish that can be applied to many fabrics that increases its durability and maintainability. It is used as a moisture barrier and the topical treatment assists in stain resistance.
Double Rubs - A testing method that determines the maximum number of rubs a fabric can withstand before exposing the foam below.

Evidence Based Design - The process of making decisions based on the best information available from research and project evaluations.

FAR - FEDERAL ACQUISITION REGULATIONS (FAR): The laws outlining how the government buys products and services. The FAR is the primary document of the Federal Acquisition Regulations System.

Fire Retardant - A chemical that can be applied to materials to make them resistant to fire.

Footcandle - A common unit of measurement used to calculate adequate lighting levels in buildings and outdoor spaces. It is defined as the amount of illumination the inside surface of an imaginary 1-foot radius sphere would be receiving if there were a uniform point source of one candela in the exact center of the sphere.

Gore Tex - A proprietary material applied to upholstery that is waterproof and breathable. It is used as a moisture barrier and the topical treatment assists in stain resistance.

Grout - A construction material used to fill and seal joints between wall and floor tiles. It is available in a variety of colors and is generally composed of a mixture of water, cement, sand and sometimes fine gravel.

GSA - GENERAL SERVICES ADMINISTRATION (GSA) consists of the Federal Technology Service (FTS), the Federal Supply Service (FSS), the Public Buildings Service (PBS), and various Staff Offices, including the Office of Government-wide Policy (OGP). GSA is also the premiere federal acquisition and procurement force offering equipment, supplies, telecommunications, and integrated information technology solutions to customer agencies. GSA’s mission is to help federal agencies better serve the public by offering, at best value, superior workplaces, expert solutions.

IDG - Interior Design Guide - An interior design standard developed to be used in all Air Force Medical facilities.

JSN - JOINT SCHEDULE NUMBERS or the National Stock Numbers are used to identify furniture and equipment items planned for a project, providing a uniform basis upon which the Medical Services can identify items of construction and material, and fix logistical and financial responsibility in an identical manner. These numbers consist of an alpha number followed by four additional numerals. The JSNs are listed in the Military Standard (MIL-STD) 1691F.

Lamps - A lamp is the light source in a lighting fixture. It is also another term for light bulbs.

Laminates - A material constructed by uniting two or more layers of material together. Laminates are typically used in areas where solid surface is not needed.

LEED (Leadership in Energy and Environmental Design) - A green building rating system that was developed by the U.S. Green Building Council in 2000 through a consensus based process. LEED is a tool for buildings of all types and size. LEED certification offers third party validation of a project’s environmental features and verifies that the building is operating exactly the way it was designed to.

Linoleum - A surfacing material composed of a solidified mixture of linseed oil, pine rosin, fossil or other resins or rosin, or an equivalent oxidized oleoresinous binder, ground cork, wood flour, mineral fillers, and pigments bonded to a burlap, jute or other suitable backing.
GLOSSARY

LOG CAT - CATEGORY OF LOGISTICAL RESPONSIBILITY or LOG CAT identifies the activity responsible for acquisition and installation of furniture and equipment, and the types of funds used.

LOG CAT A Contractor furnished and installed from construction funds (Construction Appropriations/Medical Construction Appropriations).

LOG CAT B Government furnished from using service operating funds other than construction and installed by contractor from construction funds (Construction Appropriations/Medical Construction Appropriations).

LOG CAT C Government furnished and installed from existing assets or from funds other than construction.

LOG CAT D Other. Leased or rented equipment, or that obtained under special conditions as indicated. Fund source will be other than Construction Appropriations/Medical Construction Appropriations.

LOG CAT E Government furnished and contractor installed from Construction Appropriations/Medical Construction Appropriations funds. (Procurement may be delayed until the latest date feasible that will not interfere with project completion. This will provide the latest model of equipment at the time it is needed.)

LOG CAT F Government furnished and Government (vendor) installed from Construction Appropriations/Medical Construction Appropriations funds. (Procurement may be delayed until the latest date feasible that will not interfere with project completion. This will provide the latest model of equipment at the time it is needed.)

LOG CAT G Government furnished and installed equipment requiring special funding (not MILCON or project specific CM or OP dollars) and may require other justification and approvals.

Moisture Barriers - An option for fabrics and carpets to prevent moisture and liquids from penetrating through the material. It is most often used in medical applications.

Monolithic Laid Carpet Tile - Monolithic installation requires that each tile be laid in the same direction to create the appearance of a uniform, whole floor covering.

Noise Reduction Coefficient (NRC) - A measure for rating the overall sound absorption performance of a material when used in an enclosed architectural space such as an office, where sound is being reflected at many angles of incidence. Specifically, it is the 4 frequency averaged absorption coefficients @ 250, 500, 1000 and 2000 Hz, rounded to the nearest 0.05. A material with NRC < 0.50 is a poor absorber, and NRC > .80 is a very good absorber.

Non-Directional Laid Carpet Tile - Non-directional installation allows the product to be installed without regard to direction or orientation.

Nylon Carpet Fiber - Nylon is available in two types, type 6 and type 6:6. Type 6:6 is preferred. It is available in solution dyed form and also a space dyed or piece dyed form. See glossary for further definitions of dying options.

Pellicle™ Tuxedo - Pellicle®, a transparent, textural material, allows for ventilation.

Piece Dye Carpet - Piece dye is a method in which tufted carpet is dyed.

Pneumatic - Moved or worked by air pressure.

Quarter Turn Carpet Tile - Quarter-turn products are designed to be turned 90 degrees (or one “quarter” of a complete “turn”) during installation so that each tile in a pattern points in a different direction than the tile next to it.

Resilient Flooring - Flooring capable of withstanding shock without permanent deformation that recovers and adjusts easily.

Resins - A synthetic product that allows for a variety of designs, shapes and applications.

SCS Indoor Advantage™ Certification - The Indoor Advantage™ certification program applies to any non-flooring product generally used within an enclosed indoor environment such as wall coverings, systems furniture, casework, and insulation.

SID - STRUCTURAL INTERIOR DESIGN (SID): Building related finishes, funded with MCA or MILCON dollars; Building materials and finishes are purchased and installed by the General Contractor; a submittal with samples of proposed building materials specified on a particular project. SID packages & binders are not referenced in the construction/contract documents.

Sign Location Plan - An architectural floor plan which includes special graphic markers identifying all installation points for each type of sign.

Sign Message Schedule - A compiled listing of all graphics to be displayed on each sign at each sign installation location.
Solar Shading - The use of shades or other materials to decrease the impact of the sun on an area or building. Solar shades help contribute to LEED credits, are available as blackout shades, and come in a variety of openness.

Solid Surface Materials - A solid material is used in areas that are exposed to high use, strong liquids or areas that require increased durability. This material can be either acrylic or polyester based.

“Solution Dyed - During the nylon manufacturing process, pigment is added to the molten polymer from which the filaments are made. The fiber is extruded in colored form. Because this process occurs during the making of nylon, the palette is chosen by the manufacturer. Different yarn processing of solution dyed nylon can provide distinctive aesthetics or color separation in a carpet.

Space Dyed Yarn - Space dyeing refers to a method of dyeing yarn with multiple colors printed on each strand. The majority of space dye is done using the knit-de-knit process or the continuous dye process. Carpets that utilize space dyed yarns provide a random pattern look with excellent soil hiding capabilities.

Starphire Glass™ - Starphire Glass™ registered trademark of PPG is a special order glass that is clearer than regular glass. Regular glass has a slight green tint that is noticeable when looking through the edge of the glass. This tint is even more noticeable on thicker, heavy glass. Starphire has less color but is a special order item and does cost more.

Symbology - The practice of using icons to convey information or represent specific locations along a travel pathway.

Tactile Characters - Raised graphics capable of being perceived by the sense of touch.

Terrazzo - A type of mosaic flooring made by embedding small pieces of marble, granite, glass or onyx in freshly placed mortar. The surface is usually hardened, ground, and polished.

UFAS - Uniform Federal Accessibility Standards

UFC 4-510-01 - UNIFIED FACILITIES CRITERIA (UFC) 4-510-01(also known as the MIL-HNDBK 1191) provides mandatory design and construction criteria for facilities in the Department of Defense (DoD) Medical Military Construction Program.

TriFlex™ Polymer Back - A proprietary chair back used on the Herman Miller Mirra chair that provides flexible and continuous support while also providing airflow. It is available with and without upholstery.

Vinyl Plank Flooring - Vinyl flooring that is not a continuous sheet but planks. Planks are similar to tile as there will be many more seams than sheet vinyl products. These planks allow for easy installation and maintenance as well as adding interest and creativity to a floor.

VOC - Volatile Organic Compounds. Organic chemical compounds that have high enough vapor pressures under normal conditions to significantly vaporize and enter the atmosphere. VOC’s are generated by photocopiers, carpets, furnishings, paints, varnishes, chemicals, etc. One example irritant is formaldehyde which is present in hundreds of office components, including wood and laminated furniture, shelving, and wall coverings.

VOC-Free Manufacturing - The Clean Air Act of 1990 is designed to limit the use of chemicals that contain volatile organic compounds (VOC).

Watts - A unit of power that measures the rate of energy use by a lighting fixture.

Wayfinding - A term used to describe all of the ways in which people orient themselves in physical space and navigate from place to place. Wayfinding is used in the context of architecture to refer to the user experience of orientation and choosing a path within the built environment, and it also refers to the set of architectural and/or design elements that aid orientation.

Welt - A strip of fabric sewn between the two sides of a cushion to give it more depth.

Wood Veneers - Wood veneers are thin slices of wood, usually thinner than 3 mm (1/8 inch), that are typically glued onto core panels (typically, wood, particle board or medium density fiberboard) to produce flat panels such as doors, tops and panels for cabinets, parquet floors and parts of furniture.
SID/CID

The current strategy for CID Items (Furniture/Artwork/Signage) for newly constructed/renovated medical facilities will be purchased using an 8a Supply Contractor who is able to provide turnkey services. The 8a Contractor will then work with the Initial Outfitting Directorate to coordinate requirements with the construction schedule. This will ensure “Just In Time Delivery”. At present, these contracts will be centrally procured by the Health Facilities Division on behalf of the Medical Facility. In the future, when contracting vehicles are in place, the contracting may be decentralized and turned over to the Medical Facilities.

Structural Interior Design (SID) includes selection and sampling of building related finishes; submittals with samples of proposed building materials for a particular project; and materials and finishes to be purchased and installed. The development of SID is within the design portion of the contract whether the project is a DB/B or D/B. SID is typically part of the construction project’s scope. However, SID may also include O&M funded furniture systems workstations.

The selection and illustration of furniture fixtures and equipment (or CID) necessary to complete the interior includes furniture illustrations, fabric and finish samples, plans, and ordering information. Plans and purchase order information for furniture systems may be included if they are not included in the SID. CID planning/design is not always included in the design portion of the contract (especially true for D/B), so if these services are required ensure the contracting officer includes them in the request for services.

Medical MILCON

MILCON project is typically construction projects for new square footage exceeding $750 thousand, but may include major renovations of facilities. MILCON work is sourced through the President’s Budget and planned through the Program Objectives Memorandum which is set five years out. This is not to be confused with renovation work which can total several million dollars, but does not add to the footprint or area of a facility. MILCON projects are especially sensitive because they are defined by public law, approved by Congress, and managed through TMA.

Unspecified Minor MILCONS (UMC) have a limit set by US Code (currently $2M) and is meant to satisfy short-notice requirements of Urgent or Exigent (you may hear the term P-341 projects). If the project corrects an urgent health or safety problem it can be increased to $3M. It a traditional DB/B MILCON project the both SID and CID are included in the scope of the A/E’s design services contract. In this case, the SID portion of the work will become part of the construction contract when it’s awarded to a General Contractor. However, the CID portion of the design is NOT executed with MILCON funds. The Design-Build (DB) project can include in the scope of its contract for the Contractor to develop a Furniture, Fixtures and Equipment (FFE) package. In this case, the Customer provides a list of requirements to assist the Contractor’s Interior Designer and a package is developed, including equipment floor plans to verify the fit within the design. Procurement and installation of the all moveable furnishings designed either in the base bid (or option if executed) would be purchased and installed by the DB Contractor. The furniture selected and specified should have a current GSA contract or be from UNICOR.

SRM

The Sustainment, Restoration and Modernization (SRM) program improves return on investment of DoD facilities. SRM refers to operation, maintenance, repair, and construction to facilities & infrastructure - funded through Operations & Maintenance (O&M). Defense Health Program (DHP) funding requests are distinct from other DoD requests which are based on a Plant Replacement Value (PRV) investment formula. MAJCOM provides O&M funds installations for day-to-day operations; but, at end of FY, funds not spent disappear. O&M funds have been used for renovations and to purchase furniture. In 2004, Air Force Civil Engineer Support Agency (AFCESA) assumed responsibility design and construction of SRM programs from AFCEE. They retain project managers and subject matter experts in typical engineering disciplines, as well as fire engineering, HVAC, and AT/FP to help manage/execute SRM projects.

In brief, sustainment maintains, restoration improves back to current standards, and modernization improves facilities to new standards.

Sustainment maintains current condition, including scheduled maintenance/repair; but, does not improve condition or readiness. Its scope can include minor repairs, preventative maintenance, emergency response, refinishing walls, HVAC repair & replacement, as well as replacement of roofs, and carpet. Restoration typically refers to repair and replacement work restoring old facilities or those damaged by accidents, natural disaster or fire.

Modernization involves altering facilities to implement new or higher standards, regulatory changes or accommodate new functions.

O&M funds apply not only to SRM, but also DoD operations and training programs to include military contingency ops and increased installation protection from new threats. Thus, funds could be shifted to these higher priority demands.
In 2004, Air Force Health Facilities Division selected Fort Worth District to provide contracting support to AFMS on non-MILCON Medical SRM projects supporting Sustainment, Restoration and Modernization through a Multiple Award Task Order Contract (MATOC). Projects include detailed repair, minor construction, hospitals R&M, clinics, administrative buildings, warehouses, vet clinics, and ancillary facilities which range in scope and complexity valued anywhere from $300,000 to $50M.

The MATOC contractor is also several Contractors, and task orders are placed by Fort Worth District for delivery methods such as Design-Build (DB), Design-Bid-Build (DBB), and Site-Adapt (SA). The program also includes 8(a) Contractors in a similar arrangement expect task orders are up to $5M. Invitations for bid are issued with sufficient level of design for competitive lump-sum price bids which includes technical proposals in a separate package for “best value” determination.

Projects are performance based (or guide specifications), and design on task orders is incidental to construction. The project’s scope of work is developed mainly by the Government prior to invitation; however, task orders require the awarded MATOC Contractor provide complete designs and construction services either as a DB or SA arrangement.

Facility Managers at MTFs are responsible for coordinating/submitting Work Requests (DA-4283 or AF-332) to BICE for endorsement, and, as required, MEDCOM/AFMS coordinates DD 1391s through appropriate channels to obtain approvals.

**Initial Outfitting**

Initial outfitting, of a MILCON facility construction project, is financed as either expense or investment based on the general criteria of the equipment. Collateral equipment and furnishings that are movable and are not installed as an integral part of the facility, are not considered construction costs; but considered an expense instead of investment. Typically initial outfitting will includes items of equipment that are movable in nature and not affixed as an integral part of a facility.

Initial Outfitting is not intended to provide funding to outfit the facility in its entirety. Typically, the facility will reuse a good portion of its FF&E as well as larger medical equipment which still has significant years of life. Medical Groups continue with renewal programs even when anticipating a new (or newly renovated facility) which can be planned into transition. Initial Outfitting provides financial assistance to activities impacted by medical military construction projects. These funds are available only for MILCON and an Operation & Maintenance Defense-funded renewal projects, and are released based on the scope of the project (usually a % of the Program Amount). Equipment/furniture purchases must be budgeted and funded from O&M funding. Initial Outfitting requirements are chargeable to OMD (Operations and Maintenance, Defense) funds and OPD (Other Procurement, Defense) funds.

Initial Outfitting is executed through the development directorate using various contracting vehicles to fulfill the requirements.

**IMMSS Contract**

Integrated Modular Medical Support Systems – is a 5-year contract negotiated with Herman Miller for Healthcare, through the Huntsville Center’s Medical Repair and Renewal Program (USACE), for Army Medical Department, allowing the Army to purchase deeply discounted integrated facility solutions such as interior furnishings or related services for military health care facilities. The IMMSS contract (VA91DY-05-D-0005) is a 5-year/$50 million Indefinite Delivery/Indefinite Quantity (IDIQ) contract that provides 10 contract line items (CLINs) including workplan design services, systems product, installation, warehousing and associated services.

The contract can fulfill requirements for clinical, administrative, pharmacy and lab system, nurse station and material handling, from multi-occupancy admin offices to clinical need areas.

IMMSS can complement construction and renovation projects and is beneficial when used in conjunction with a renewal, restoration, or modernization project. All product pricing has already been negotiated and determined, and transportation CONUS is included in that price. Only other line items (associated services and transportation CONUS) need to be determined. These support services can include, Clinical and functional analysis, Design, Warehousing Services and Extended Installation.

Equipment provided under IMMSS is typically considered "personal property" and not "real property." In concert with MILCON or Capital Investment projects it can be expected IMMSS can be procured with Initial Outfitting funds or transition funds.

Typically, the Huntsville Center does not process a task order for less than $2,500, because facilities can generally purchase items under this amount on its government credit card. However, small packages can be combined under a single delivery order, which can also alleviate any dilemma of splitting requirements.
Simplified Acquisitions

Simplified acquisitions are typically small-dollar buys, but can be as high as $5 million. Typically simplified acquisitions $2,500 to $100,000 are reserved for small businesses, as long as two competitive offers from small companies is obtained.

Simplified acquisitions don’t adhere to a set contract buying process, as they can be through cash, purchase orders, blanket purchase agreements or Government Purchase Card.
1. Purchase Orders (SF1449) can be used for items and services up to $100K (Fixed Price/Fixed Qty)
2. Blanket Purchase Agreement (BPA) is a simplified method for repetitive needs and establishes a charge account with qualified sources. BPAs still follow price reasonableness determinations and competition requirements (files inspected annually) and adhere to the following:
   a. terms do not exceed five years
   b. not to exceed $100,000 over the agreement term
   c. contains 30 day written notice statement to cancel
   d. identifies individual purchase limitations
   e. identifies individuals authorized to purchase on the BPA
   f. identifies commodity or service to be provided

Departments can request BPAs and Purchasing will then review past, current & anticipated dollar volume and frequency of the vendor, as well as, determine if similar orders exist in another department or if an order already exists to which the request can be combined. If the request is valid, Purchasing Department will issue a Request for Quote, and select a vendor for the BPA. BPAs don’t commit organizations to expend funds or encumber funds.

3. Government Purchase Card (GPC) Impact Card (AFI 64-117) is used to purchase authorized supplies, equipment, and non-personal services up to a micro-purchase threshold of $2,500 and up to $25,000 off existing contracts such as GSA schedules or Federal Prison Industries/UNICOR.

   b. Non-recurring services involve one-time, unpredictable, or occasional requirements may be purchased with the GPC up to the micro-purchase threshold whenever a requirement occurs. However, splitting requirements is not proper use for the GPC.

4. Direct acquisition is a task or delivery order placed by an Air Force official against a contract vehicle established outside DoD such as GSA. Assisted Acquisition is a contract awarded or task or delivery order placed on behalf of DoD by an official of the United States outside DoD such as the Veterans Administration.

   GSA – see section identified as General Services Administration
   VA – see section identified as Veteran’s Administration BPAs, BOAs, and/or B(a) IDIQ Contracts

Veteran’s Administration (VA)

Execution through the VA can include BPAs, BOAs, and/or B(a) IDIQ Contracts. Air Force Medical Service executed contract requirements through VA Veteran’s Affairs Special Services (VASS); but, recently this became unavailable. It is possible, in the future, that a VA contract vehicle may become available. This agreement is describe below for future reference. The AFMS and the VA established a medical contracting service, for acquisition/procurement of activities, to facilitate the AFMS procurement requirements of AFMLO and AFMSA. VASS accepted AFMS contracting work on behalf of the VA. Contracting Services performed under MOA between the VA and Air Force Surgeon General’s office (31 Mar 2005) as authorized by 38 USC 8111 and 10 USC 1104. The MOA authorized establishment of appropriate effective and innovative contracting vehicles (including BPAs, Indefinite Delivery / Indefinite Quantity [IDIQ]) to enable sharing of all “health-care resources” as defined by 38 USC 8111, to maximize to the extent permissible under applicable law, VA, DoD, and AF regulations, policies and guidelines. Air Force customers provided authorization to VA contracting officers for services rendered under the agreement using a MIPR DD Form 448.

Reimbursements to cover VA operating cost would be two percent of the total cost of the order, or minimum of $175, for placing orders against existing contracts (and creating new), not to exceed $25,000 for any single purchase.

VA could contract a project as B(a) set aside contract procurement of furniture/furnishings and furniture installation services, such as Purchase of Furniture (as identified in a CID package). The Contractor negotiated with GSA schedule vendors to ensure best value pricing to the government. Contractor also provided Warehouse/Storage of furniture and providing Comprehensive Installation Services.
**IDIQ**

Sometimes called IDIQ or "requirements contract". A contract providing for an indefinite quantity, within stated maximum or minimum limits, of specific supplies or services to be furnished during a fixed period, with deliveries to be scheduled by placing orders with the contractor. Funds for each delivery are obligated by each task (or delivery) order. Once an IDIQ is established, the customer has access to that vendor without the need to compete the requirement further (assuming the requirement’s within the scope of the IDIQ). As appropriate, IDIQs can be established through simplified acquisition or full competition. The AFMS has been able to execute contracts for design work through Savannah IDIQs over the past several years. The relationship to this Guide, A/E’s may assist in producing a CIS and/or SID package for the design of a major renovation or new construction.

**Base Contracting SABER**

More formally known as Simplified Acquisition of Base Engineer Requirements. SABER is an IDIQ contract for minor construction, maintenance, and repair services at a particular installation.

The SABER program is managed by BCE and one or more contractors will have the installation contract. Execution of work is most often design-build. Although often more expensive than a competitive bid process, SABER contracts can be executed rapidly and are often used at end of fiscal year. Like any contractor, quality varies, as does BCE’s level of oversight.

**Toolbox**

The U.S. Army Medical Command (USAMEDCOM) currently uses a set of pre-negotiated, indefinite delivery/indefinite quantity (IDIQ) contracts, called Toolbox, designed to streamline the traditional solicit/bid/design, solicit/bid/build contracting process. Under Toolbox, facility managers can execute nominal design and/or construction projects via delivery orders issued against the existing pre-negotiated contracts. Toolbox contracts are managed by three U.S. Army Corps of Engineers (USACE) Medical Support Teams (MSTs) - Fort Worth (which executes projects via medical job order contracts MEDJOCs); and Mobile and Huntsville (which execute projects via "Remediation" contracts). The literature review indicates that IDIQ contracts produce faster, cheaper, and higher quality projects than traditional contracting means, but no known study has compared the three MSTs to each other in those same terms.

The objectives of this study were to explain the similarities and differences between the three MSTs’ methods and determine if any MST was best-suited to execute projects of a certain scope by evaluating cost, timeliness, and quality of a sample of projects.
GSA

Set up in 1949, GSA is buyer, builder, landlord, and seller for federal civilian agencies. Made up of 3 services (or components) GSA operates the Federal Supply Service (FSS), Public Buildings Service, and Federal Telecommunications Service. Through these it purchases goods and services for civilian and military agencies via federal supply schedule contracts (IDIQ) covering CONUS. FSS manages 9 Acquisition Centers, which the National Furniture Center is one. Federal Supply Service (FSS) is both mandatory and optional. If the requirement is found on a mandatory schedule, a FSS would be a mandatory first source for services, equipment, and interior finishes, and a second mandatory source for workstations, shelving, seating, and furnishings. No further competition is necessary, GSA has already determined prices of items under schedule contracts are fair and reasonable. However, optional FSSs where requirement exceeds micro purchase threshold of $2,500, customers should review at least three FSSs and select the one that offers “best value”.

SINS

Special Item Numbers (SINs) are specialties that fall under a GSA Federal Service Schedule number. Applicable schedules are mainly Furniture Schedules 71 and 72. These are further divided into more specialized components, including furniture and related services for offices and hospitals, flooring, carpet, window treatment, art, as well as layout and installation. Specialties cover services to help federal agencies plan, manage major interiors upgrades or moves by providing access to professional project managers and designers. Additionally, Schedule 056 includes building components and building services; including doors, wall coverings, toilet compartments and accessories.

National Furniture Center

Provides industry knowledge and contracting expertise for furniture and furnishings products and services. The National Furniture Center offers: Contracting Expertise, Quality Furnishings at Significant Discounts; Order Placement, and Turnkey Services such as Project Management, Design and Layout Services, Installation Services, Site Coordination; Furniture Installation and Staging/Phasing Delivery. Floor coverings include Broadloom, Carpet Tiles, Resilient (hard surface) tile and sheet flooring as well as installation. Furnishing include window treatments, artwork, cubical curtains, Upholstered Seating, and office systems furnishings.

Sole Source Justification

Sole Source Justifications are allowable through FAR 6.303-2 and are typically between $2,500 and $100,000. In the event costs are in excess of $100,000 a Justification and Approval (J&A) document is required. Reasons for Sole source include:
(A) only one responsible source and no other supplies or services [FAR 6.302-1]
(B) unusual and compelling urgency [FAR 6.302-2]

DSCP/DBPA

Blanket Purchase Agreements (BPAs) are a simplified method of filling anticipated repetitive needs for supplies and services. They are “charge accounts” established with Schedule contractors by ordering agencies and are an easy ordering tool. Decentralized BPAs can be used by authorized persons outside of the responsible Contracting Office. DBPA agreements between The Defense Supply Center Philadelphia (DSCP) and a manufacturer can be used for purchase by U.S. Military Medical Treatment Facilities, and employs existing GSA or VA contracts as the basis for pricing. Each quote though must summarize the product and list the contracts used. The order process is simplified and streamlined, thus the DBPA can be used by authorized Military personnel in the Air Force, Navy, and Army. A list of authorized facilities is available from upon request. Orders are placed using DBPA number and a four digit unique identifier for each order placed. These identifier numbers are assigned by the authorized DBPA ordering official at each facility.
**UFC 4-510-01 Design:**
Medical Military Facilities (Draft), May 2007

**DOD, Military Standards (MIL-STD):**
http://www.wbdg.org/ccb/M1691/1691.pdf

**UFC 1-300-07A UNIFIED FACILITIES CRITERIA (UFC)**
1 March 2005
www.wbdg.org/ccb/DOD/UFC/ufc_1_300_07a.pdf

**Engineering Technical Letter (ETL) 07-4: Air Force Carpet Standard**

**DOD HEALTHCARE DESIGN: ROOM GUIDE PLATES**
http://www.tricare.mil/ocfo/ppmd/guideplates.cfm

**ADA and ABA Accessibility Guidelines for Buildings and Facilities, July 23, 2004.**
http://www.access-board.gov
http://www.access-board.gov/adaag/html/adaag.htm
www.ada.gov

**Uniform Federal Accessibility Standards**
http://www.access-board.gov/ufas/ufas-html/ufas.htm

www.iccsafe.org

**National Fire Protection Association (NFPA) standards and codes (National Fire Codes)**
www.nfpa.org
Public Areas

Lobbies
Image 1: © Mark Ballogg @ Steinkamp/Balogg, Chicago
Image 2: Provided by HDR Stock
Image 3: ©2003 James Steinkamp Steinkamp/Balogg Photography Chicago
Image 4 & 5: Photo provided by HDR Architecture, Inc., ©2007 Jeffrey Jacobs Photography
Waiting Area
Image 1: Photo provided by HDR Architecture, Inc., ©2007 Jeffrey Jacobs Photography
Image 2: © Mark Trew
Image 3: Hector Velasco Facio
Image 4: Photo provide by United States Air Force
Image 5: ©2004 Mark Ballogg, Steinkamp/Balogg Photography Chicago
Reception Desks
Image 1: © 2005 Mark Ballogg, Steinkamp/Balogg Photography Chicago
Image 2: © Tom Kessler Photography
Image 3: Photo provide by United States Air Force
Image 4: © George Cott
Image 5: © Tom Kessler Photography

Private Areas

Exam Rooms:
Image 1, 3, & 5: Rendering provided by HDR Architecture, Inc.
Image 2: Provided by the United State Air Force
Image 4: Mark Schiefelbein for The New York Times
Provider Offices:
Image 1, 3, & 5: Rendering provided by HDR Architecture, Inc.
Image 2 & 4: Provided by the United State Air Force
Treatment / Imaging Rooms
Image 1: © Mark Ballogg @ Steinkamp/Balogg, Chicago
Image 2: Provided by the United State Air Force
Image 3: Provided by HDR Stock
Image 4: © 2004 Gary Knight / garyknight.com
Image 5: Kurt Johnson Photography

Specialty Rooms/Areas

PT / OT:
Image 1 & 4: Provided by the United State Air Force
Image 2 & 3: © Tom Kessler Photography
Image 5: Provided by HDR Stock
Pharmacy Windows
Image 1, 3, & 5: Rendering provided by HDR Architecture, Inc.
Image 2 & 4: Provided by the United State Air Force
VOLUME 2

Flooring Section Photo: Provided by HDR Stock
Walls Section Photo: © Mark Ballogg Photography
Ceiling Section Photo: © Tom Kessler Photography
Special Finishes Section Photo: © VanceFox.com
Lighting Section Photo: © Tom Kessler Photography
Fabrics Section Photo: Provided by HDR Stock
Signage Section Photo: © VanceFox.com
Artwork Section Photo: Photography by Gordon Schenck
Accessories Section Photo: © VanceFox.com