

EXISTING CEILING

OPEN 2

HEADER

5/8" TYPEX DRUM

6" x 18" GAGE METAL STUD

1/4" LEVEL 3 SHIELD
AND STOREFRONT FRAME

STOREFRONT

SOLID SURFACES
TOPS
RE-USE EXISTING
CABINETS

DRYOR FRANKEL - SUPPLIED BY OWNER
1/2" PASTE STEEL
5/8" TYPE X DRUM

12'-0"

6"

3'-6"

1'-0"

3'-6"

1'-0"

1'-0"

4'-2"

1/4" AND CABINET DETAIL

1/4" = 1'-5"

BULLET SHIELD™ 1-1/4" sheet

DEFENSELITE™

Ballistic glazing - Level 3

BulletShield™ 1-1/4" ballistic grade sheet is a 1.250", 4-ply polycarbonate laminate that meets UL 752 Level 3 rating for .44 Magnum ballistic attack, HP White TP 0500 Level IV, and ASTM F 1233 Class 5. Unlike glass-clad products, this all-polycarbonate laminate resists spalling and white-out after repeated high force and ballistic impacts, an advantage in maintaining visibility of a threat during an attack. All BulletShield™ 1-1/4" products incorporate DefenseLite™ polycarbonate sheet produced for high optical quality in security glazing laminates. Exterior surfaces have a proprietary DefenseLite™ AR hardcoat that facilitates cleaning and resists marring, chemical, and graffiti attack. Applications include security doors, windows, and other areas that require these specific levels of protection. BulletShield™ 1-1/4" sheet has a seven (7) year Limited Product Warranty against coating failure, yellowing, and hazing. The terms of the warranty are available upon request.

Applications

Government and detention facilities, banks, specialty retailers, 24 hour convenience stores, cash transaction windows, safe rooms, and executive offices.

Typical Properties*

Property	Values
Gauge / Tolerance	1.30 in ± 5%
Weight	8.1 lbs / sq ft
Shading Coefficient	0.81
U-Value	0.51
Light Transmission	72%

*Typical properties are not intended for specification purposes

Product Performance Ratings

BALLISTIC

UL 752 Level 3 (.44 Magnum Lead Semi-Wadcutter Gas Checked, 3 rounds)

NIJ Level II, Level IIIA

FORCED ENTRY & CONTAINMENT

ASTM F 1233.08 Class 5 Body Passage

ASTM F 1233.08 Class 2.5 Contraband Passage

ASTM F 1915.03 Grade 1

H.P. White TP 0500.03 Level IV Sequence 43-44

AGENCY INFORMATION

UL File: BP6864

Combustibility Class CC1

Miami-Dade NOA #15-1014.01

Florida Building Code 2014

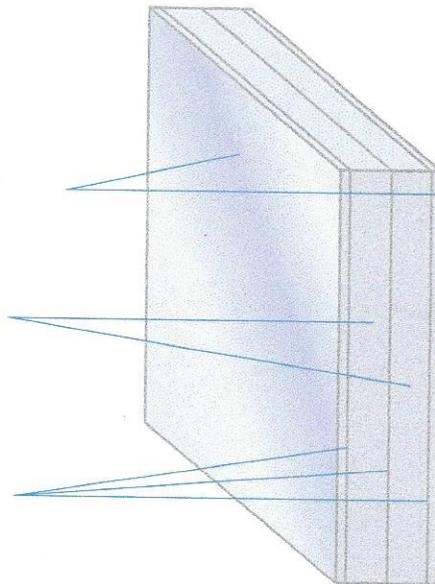
ICC-ES ESR-2728

BulletShield™ 1-1/4" Sheet Construction

1/8" DefenseLite™
AR-1 Sheet

1/2" DefenseLite™
AR-1 Sheet

Interlayer Bond



SHIELD™ 1-1/4" sheet

Glazing recommendations

- Structural security framing systems with equal or greater forced entry and/or ballistics ratings as the selected BulletShield™ laminate are recommended
- BulletShield™ laminate should be cut to allow for a minimum of one (1) inch edge engagement in the frame, with sufficient rabbet depth for material expansion (approx. 1/16"/ft.)
- Use wet or dry sealants/gaskets that are compatible with polycarbonate
- Remove protective masking after glazing operations are completed and before prolonged exposure to direct sunlight, moisture, or high temperature

Standard sheet size

48" x 60", 48" x 72", 38" x 78", 38" x 96", 48" x 96", 60" x 72", 60" x 96"

Product specification

BulletShield™ 1-1/4" polycarbonate laminate:

- Four-ply, clear DefenseLite™ polycarbonate sheet constructed as follows:
 - 1/8" DefenseLite™ AR-1 abrasion resistant surface
 - Polyurethane bonding interlayer
 - 1/2" DefenseLite™ polycarbonate sheet
 - Polyurethane bonding interlayer
 - 1/2" DefenseLite™ polycarbonate sheet
 - Polyurethane bonding interlayer
 - 1/8" DefenseLite™ AR-1 abrasion resistant surface

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance, information and recommendations to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by BulletShield™.

Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

With respect to health, safety and environment precautions, the relevant Safety Data Sheets (SDS) and product labels must be observed prior to working with our products.

BULLET SHIELD™ for Optimal "Clear" Ballistic Protection

BulletShield Cleaning Instructions

Periodic cleaning of *BulletShield* panels, using correct procedures with compatible household cleaners, is recommended to prolong the service life of your material. All *BulletShield* panels are hard coated, abrasion/mar resistant products that offer a higher degree of scratch resistance and surface hardness. These products provide superior protection against unintentional chemical attack. However, the use of abrasive, gritty cleaners and/or hard cleaning implements (e.g. hard brushes, scrapers, squeegees) should be avoided to eliminate the possibility of scratching the surface coating.

The following cleaning techniques are based on standard industry practices.

General Cleaning:

- 1) Thoroughly pre-rinse with warm water to loosen and wash away surface material, grit and grime.
- 2) Using a soft microfiber cloth or moist non-abrasive sponge, gently wash with a mild diluted soap or detergent.
- 3) Rinse thoroughly with lukewarm clean water. To prevent water spots, thoroughly dry the glazing with a dry soft cloth.

Removing Heavy Oils and Tars:

- 1) Thoroughly pre-rinse with warm water to loosen and wash away surface material, grit and grime.
- 2) With a 50/50 isopropyl alcohol-water mixture, gently rub the area with a soft non-abrasive cloth.
- 3) Immediately rinse thoroughly with lukewarm clean water. To prevent water spots, thoroughly dry the glazing with a dry soft cloth.

Removing Graffiti, Paint, Marker, Inks and Glazing Compounds:

- 1) Thoroughly pre-rinse with warm water to loosen and wash away surface material, grit and grime.
- 2) Using Naphtha VM&P grade, Isopropyl Alcohol or Butyl Cellosolve, gently rub the area with a soft non-abrasive cloth. Do not apply solvent cleaners under direct sunlight or during high temperatures.
- 3) Immediately rinse thoroughly with lukewarm clean water. To prevent water spots, thoroughly dry the glazing with a dry soft cloth.

Removing Adhesive backed Labels:

- 1) Isopropyl Alcohol, Naphtha VM&P grade or Kerosene will help lift stickers and adhesives.
- 2) Immediately rinse thoroughly with lukewarm clean water. To prevent water spots, thoroughly dry the glazing with a dry soft cloth.

Compatible Cleaners

The following cleaning agents are compatible with *BulletShield* panels when used according to the manufacturer's recommendations:

- Top Job, Joy®
- Palmolive Liquid®
- Windex® Ammonia free

[Top Job and Joy are registered trademarks of Proctor & Gamble, Palmolive is a registered trademark of Colgate Palmolive, Windex is a registered trademark of Drackett Products Company]

Points to Remember

Do not use abrasive cleaners.

Do not use high alkaline cleaners (high pH or ammoniated).

Do not leave cleaners sitting on *BulletShield* panels for periods of time; wash off immediately.

Do not apply cleaners under direct sunlight or at elevated temperatures.

Do not clean your glazing with any unapproved cleaners. When in doubt, seek guidance.

Using scrapers, squeegees, razors or other sharp instruments may permanently scratch your *BulletShield* panels.

Always avoid dry rubbing/cleaning your panels, as sand and dust particles clinging to the exterior of the glazing may scratch its surface.

An Anti-Static Canned-Air Ionizer can reduce electrostatic charge buildup on *BulletShield* panels, consequently reducing dirt and dust buildup that would hinder cleaning.

Special Note:

The edges of your *BulletShield* panel are not protected with an abrasion and chemical resistance hard coating. Do not allow cleaning solutions and solvents to pool along the edges for any length of time.

Always rinse edges thoroughly with generous amounts of lukewarm clean water.

BULLET  **SHIELD**™

IR 500/501 Series Framing Systems and 350/500 IR Entrances

Single-Source
Hurricane Resistant
Solutions and More



Cancer Center of Sacred Heart Hospital, Pensacola, Florida
Architect: Caldwell Associates Architects, Pensacola, Florida
Customer: Merritt Glass Co, Inc., Pensacola, Florida
Photo: © CJ Berg Photographics

Kawneer provides a single-source solution to the growing need for hurricane resistant products in the east and Gulf Coast states from New York through Texas. IR 500/501 Series Framing Systems and 350/500 IR Entrances are large missile impact resistant, fully tested and easy to fabricate and install. In addition, IR 501T and IR 501UT framing provides improved thermal performance to increase energy efficiency by employing IsoLock™ thermal breaks.

IR 500/501 Series Framing Systems

Our hurricane resistant framing systems are designed and engineered for single-span storefronts, low- to mid-rise ribbon window and punched opening applications.

Testing

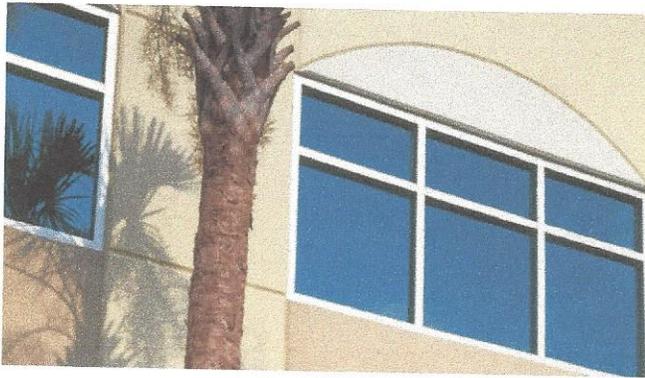
IR 500/501 Framing Systems are tested to high velocity hurricane zone requirements of the international building code and Florida building code, which meet ASTM E 1886 and TAS 201 and TAS 203 for impact and cycle pressure differentials. Additionally, all of our systems have been tested to ASTM E 331, ASTM E 283 and ASTM E 330 for air, water and structural performance.

For thermal and acoustical performance, IR 501UT has been tested to AAMA 1503, AAMA 1801 and ASTM E 1425.

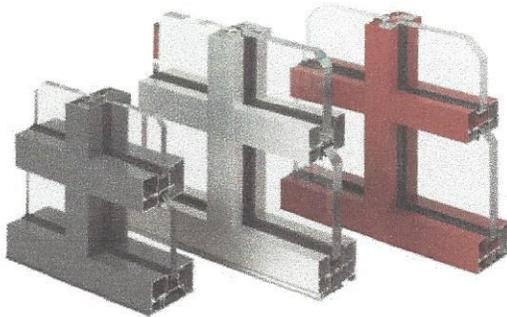
Fabrication

All the IR 500/501 Series Framing Systems offer a flush glazed look with either interior structural silicone seal (wet glazed) or optional EPDM gasket (dry glazed) for large missile applications. Screw spline fabrication provides the option to pre-assemble units with controlled shop labor costs and smaller field crews. The framing systems are center glazed from the exterior side and are designed to accept 350/500 IR Entrances.

	IR 500	IR 501	IR 501T	IR 501UT
Typical Detail				
Sightline	2-1/2" (63.5 mm)	2-1/2" (63.5 mm)	2-3/4" (69.85 mm)	2-3/4" (69.85 mm)
System Depth	5" (127 mm)	5" (127 mm)	5" (127 mm)	5" (127 mm)
Infill Options	9/16", 5/8" (Impact), 1/4" (Non-Impact)	1-5/16" (Impact), 1" (Non-Impact)	1-5/16" (Impact)	1-5/16" (Impact)
Thermal	No	No	IsoLock™ Thermal Break	Dual IsoLock™ Thermal Break
Hurricane Resistant Tested	Large Missile	Small Missile Large Missile	Small Missile Large Missile	Small Missile Large Missile



Tarpon Springs Public Safety Building, Tarpon Springs, Florida
 Architect: Gee & Jenson, Engineers, Architects, Planners, Inc.,
 West Palm Beach, Florida
 Glazing Contractor: Ashe Glass & Mirror, Temple Terrace, Florida
 Photo © Gordon Schenck, Jr.



L-R: IR 500, IR 501UT and IR 501 Framing

350/500 IR Entrances

Entrances are 1-3/4" (44.45 mm) deep and provide the extra strength for applications where more stringent code requirements call for windborne debris protection.



Testing

350/500 IR Entrances are tested to the High Velocity Hurricane Zone requirements of the International Building Code and Florida Building Code. Meeting ASTM E 1886, and TAS 201 and TAS 203 for impact and cycle pressure differentials.

Features

350 IR Entrances feature standard 3-1/2" (88.9 mm) vertical stiles, 3-1/2" (88.9 mm) top rails and 6-1/2" (165.1 mm) bottom rails. 500 IR Entrances feature standard 5" (127 mm) vertical stiles, 5" (127 mm) top rails and 6-1/2" (165.1 mm) bottom rails. Bottom rail options are 7-1/2" (190.5 mm) and 10" (254 mm) for aesthetics or applications where higher bottom rails are required to meet local building codes. 350/500 IR Entrances are single acting and available in singles or pairs to suit any project. The entrances feature the proven Dual Moment welded corner construction with 16 welds per door and Kawneer's Limited Lifetime Warranty.



Standard hinging hardware includes top, bottom and intermediate offset pivots, 1-1/2" pair of butt hinges or continuous geared hinges. Standard MS 1850 three-point locks are available as well as concealed vertical rod exit device hardware options.

Entrances accommodate 1/4", 7/16" and 9/16" impact resistant glazing infills using square glass stops with an interior silicone seal. Additional glazing options include 3M VHB Structural Glazing Tape and dry/dry glazing gaskets. Pairs include an adjustable astragal, utilizing pile weathering with a polymeric fin at the meeting stiles, and all doors include an EPDM blade gasket at the threshold. Polymeric bulb weather stripping is used in the door frames.

Standard door jambs, transom bars and headers from the IR 500/501 Series Framing Systems are designed for use with 350/500 IR Entrances. Optional door frames include Trifab™ VG 450 center glazed, Trifab™ VG 451 center glazed, and 1600 Wall System™ sub-frames.

Kawneer Company, Inc.
 Technology Park / Atlanta
 555 Guthridge Court
 Norcross, GA 30092

kawneer.com
 770 . 449 . 5555

 **KAWNEER**
 AN ALCOA COMPANY



Part 1 - GENERAL

1:01 REFERENCES

- A. Americans with Disabilities Act (ADA): Section 4.5.3. Accessibility Guidelines for Building & Facilities
- B. American Association of Textile Chemists and Colors (AATCC): 16, Option E Colorfastness of Light; 165 Colorfastness to Crocking, Carpets AATCC Crock meter Method.
- C. Aachener Test: Dimensional Stability (DIN Standard 54318 175 Stain Resistance; Pile Floor Covering
- D. American Society for Testing and Materials (ASTM) D 2859 Flammability of Finished Textile Floor Covering Materials. E 648 Critical Radiant Flux of Floor Covering System Using a Radiant Heat Energy Source (NFPA 253) E662 Specific Optical Density of Smoke Generated by Solid Materials (NFPA 258)
- E. Consumer Product Safety Commission (CPSC): FF-1-7 Methenamine Pill Test.

1.02 SUBMITTALS

- A. Shop Drawings and Product Data: Submit for all products proposed for use, describing physical characteristics, sizes, patterns, colors available, type of subfloor, and method of installation.
- B. Test Reports: Provide certified test reports, prepared by an independent testing laboratory, showing conformance to specified performance standards. Test results shall represent average results for production goods, and shall not be over two years old.
- C. Samples: Submit a full repeatable design for each carpet type specified for project, demonstrating color, backing and pattern.
- D. Maintenance Data: Submit manufacturer's recommend cleaning and maintenance data. Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning.

1.03 SUBSTITUTIONS

- A. No Substitutions allowed.

1.04 QUALITY ASSURANCE

A. Qualifications:

- 1. Manufacturer: Company specializing in carpet tile manufacturing with a minimum of ten continuous years of documented experience. Carpet manufacturing processes must be certified by a recognized ISO registrar to the current requirements of either the *ISO 9001* or *ISO 9002* standards for quality management systems as established by the International Organization for Standardization (1987), revised 1994).

2. Installer: Company, with a minimum of five years documented experience in the installation of carpet tiles, certified or accredited by manufacturer.
3. Installer shall have documented experience with a formal lift system when applicable to the job.

B. Quality and Performance Testing: Carpet shall comply with the following performance testing requirements:

1. **CRI TARR Rating:** "Severe" or "Heavy" using ASTM D-5252 Hexapod Tumble Test. Value must be 3.0 or higher to ensure appearance retention in high traffic areas such as school classrooms (rating of 3.0) and corridors (rating of 3.0 – 3.5).
2. **CRI Indoor Air Quality Testing Program:**
 - A. VOC's not to exceed 0.5 milligrams per square meter per hour.
 - B. Styrene not to exceed 0.4 milligrams per square meter per hour
 - C. 4-PC (phenylcyclohexene) not to exceed 0.1 milligrams per square meter per hr
 - D. Formaldehyde not to exceed 0.5 milligrams per square meter per hr.
3. **Noise Reduction Coefficient, ASTM C423:** 0.20 minimum. 0.25 for LEED facility
4. **ASTM D 2859 or CPSC FF-1-70 Methenamine Pill Test:** Pass.
5. **Critical Radiant Flux Classification:** Not less than 0.45 W/sq. cm.
6. **Dry Breaking Strength:** Not less than 100 lbf according to ASTM D 2646.
7. **Dimensional Tolerance:** Within 1/32 inch of specified size dimensions, as determined by physical measurement.
8. **Dimensional Stability:** 0.2% or less according to ISO 2551 (Aachen Test).
9. **Colorfastness to Crocking:** Not less than 4, wet and dry, according to AATCC 165.
10. **Antimicrobial Activity:** Not less than 2-mm halo of inhibition for gram-positive bacteria, not less than 1-mm halo of inhibition for gram-negative bacteria, and no fungal growth, according to AATCC 174.
11. **Electrostatic Propensity:** Less than 3.5 kV according to AATCC 134.
12. **ASTME 648, Critical Radiant Panel Flux Class I,** not less than 0.45 watts per square centimeter.
13. **AATCC 16, Option E:** Minimum rating of 4 on grey scale after 80 hours exposure.
14. **ASTM E 662 (NFPA 258):** Smoke density less than 450 optical density.
15. **AATCC 165:** Minimum rating of 4 wet and dry.
16. **AACHEN Test (DIN Standard 54318):** Dimensional stability 0.2% shrinkage or growth.

1.05 DELIVERY AND STORAGE

- A. Deliver all material to the installation site in the manufacturer's original packaging. Packaging shall contain manufacturer's name, product color and pattern name, identification number, and other related information.
- B. Carpet tiles shall be stored between 40° F and 100° F and shall be conditioned to between 60° F and 90° F for 48 hours prior to installation.

1.06 PROJECT SITE CONDITIONS

- A. Floor temperature shall be a minimum of **60° F** for proper adhesive performance.
- B. Floor pH shall not exceed **10.0** (acid etch using a **50/50** vinegar and water or a **1/20** muriatic acid and water solution if greater than 10.0).
- C. Water vapor transmission of sub-floor shall not exceed **3 lbs. Per 1,000** square feet per 24-hour period as determined by the **#625** Calcium Chloride Test.
- D. Permanent building lights or lighting of equal brilliance available during installation.

1.07 WARRANTY

- A. Provide certified copies of the following manufacturer's product warranties.
 - 1. Lifetime Face Fiber Wear (5 year for Walk-Off)
 - 2. Lifetime Staining/Soiling Resistance
 - 3. Lifetime Color Pattern Permanency
 - 4. Lifetime Delamination of Backing
 - 5. Lifetime Edge Ravel
 - 6. Lifetime Tuft Bind
 - 7. Lifetime Floor Compatibility
 - 8. Lifetime Antistatic
 - 9. Lifetime Antimicrobial Protection
 - 10. Lifetime Flammability
 - 11. Lifetime Cushion Resiliency
 - 12. Lifetime Dimensional Stability
 - 13. Lifetime Floor Release
 - 14. Lifetime Moisture Resistance
- B. Warranty shall be sole source responsibility of the manufacture. Second source warranties or warranties that involve parties other than the manufacturer are unacceptable.

1.08 EXTRA MATERIALS

- A. Provide up to 10% attic stock of each carpet type, or predetermined quantity as requested by owner.

Part 2 - PRODUCTS

2.01 MANUFACTURER

- A. MILLIKEN – FIELD CARPET
~~XXXXXXXXXXXXXX~~
Elevation Due North, Color TBA
50 cm tile
- B. MILLIKEN - VESITBULE
~~XXXXXXX~~
Sepia Rampart, Color TBA
50 cm tile

2.02 MATERIALS

- A. FIELD CARPET
 - Construction: Tufted, Textured Loop
 - Face Fiber materials: Milliken-Certified WearOn® Nylon Type 6,6
 - Tufted Face Weight: 15 oz/yd² (509 g/m²)
 - TARR Rating: Severe Rated
 - Standard backing: PVC-Free Underscore™ ES Cushion
 - Adhesive for installation: Zero or Low-VOC adhesive. Must be CRI Green Label Plus approved.
- B. VESITBULE
 - Construction: Tufted, Multi-Level Loop
 - Face Fiber materials: 50% ECONYL® SDN Type 6 Multifilament, 50% SDN Type 6 Mono- and Multifilament
 - Tufted Face Weight: 28.2 oz/yd² (956 g/m²)
 - TARR Rating: Heavy Rated
 - Standard backing: PVC-Free Underscore™ ES Cushion
 - Adhesive for installation: Zero or Low-VOC adhesive. Must be CRI Green Label Plus approved.

2.03 ACCESSORIES

- A. Adhesive shall be manufacturer approved.
- B. Subfloor filler: Ardex feather finish or other Portland cement based floor-patching compound.
- C. Cove base: stated by owner
- D. Transition strips: stated by owner

Part 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces are smooth and flat and are ready to receive work.
- B. Verify that floor temperature is a minimum of 60° F. for proper adhesive performance.

- C. Verify the %Relative Humidity or water transmission rate within the floor and reference Section 3.03 Installation for details on how to proceed.
- D. Verify that floor pH does not exceed **10.0**
- E. Beginning of installation means acceptance of existing substrate and site conditions.

3.02 PREPARATION

- A. The sub-floor shall be structurally sound, clean, dust free, smooth, and level. Cracks and holes in excess of **1/8"** should be filled with an underlayment material such as **Ardex feather finish**, or other Portland cement based floor-patching compound.
- B. Due to the non-PVC nature of specified backing, it is not necessary to remove existing flooring adhesive such as "cut back" emulsion, or residual latex based general-purpose adhesive.
- C. Residual trowel notches shall be reduced to **1/32"** by mechanical scraping or grinding or by light patching.
- D. Do not sand or mechanically abrade any asphaltic (black) adhesive. These type adhesives may contain asbestos fibers from vinyl asbestos tile.
- E. All protruding objects must be removed.
- F. Prohibit traffic from area until filler is cured.
- G. Vacuum clean substrate.
- H. For TractionBack® to effectively prevent lateral movement, it is **required** that all dust and dirt **must** be removed from the floor prior to installation of product. A thorough wet mopping of the floor surface is **required** prior to beginning installation of TractionBack.

3.03 INSTALLATION

- A. Install carpet tiles and adhesive in accordance with manufacture's installation instructions.
- B. Carpet to be secured to the floor in compliance with Americans with disabilities Act: **(ADA), Section 4.5.3.**
- C. Proper layout and planning must be completed prior to any application of adhesive or carpet tile.
- D. Two working chalklines must be applied to the floor to insure a straight, square properly aligned installation. These chalklines intersect at the starting point and are exactly **90°** to each other.
- E. Begin installation using a pyramid technique and aligning the first tile at the intersection of the two chalklines.
- F. Always slide each module into position from the side to prevent trapped yarn. Set each module by firmly rubbing both joints.
- G. Modules should be tight but not compressed. Peaking will occur when modules are too tight. Too loose an installation can slip and create obvious gap with use.
- H. Arrows are embossed and printed on the back of each module indicating pile direction. All arrows shall run in the same direction.

- I. A parallel of “scribe” cutting technique may be used when cutting the modules. Any method leading to a clean, properly sized cut is acceptable.
- J. Cuts are most easily and cleanly done through the face of the module.
- K. Provide unobstructed spaces for removing and replacing furniture and equipment in the installation area.
- L. Concrete slabs must have **Relative Humidity (RH)** and **pH range** compliant to manufacturer’s QC standards. Follow manufacturer’s guidelines for installing tiles with or without adhesives.

3.04 FIELD QUALITY CONTROL

- A. Arrange for carpet manufacturer to provide field service specialist at commencement of installation to instruct installer in methods and to assure that project conditions are satisfactory.
- B. Review CRI 104 for guidelines on **temperature, humidity, and ventilation** and on “Protecting Indoor Installations.”
- C. Do not install carpets over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive. Concrete slabs must have **Relative Humidity (RH)** and **pH range** compliant to manufacturer’s QC standards.

3.05 CLEANING

- A. Remove excess adhesive from floor, base and wall surfaces without damage.
- B. Clean floor and base surfaces in accordance with manufacturer’s instructions.
- C. A commercial upright vacuum with a beater brush approved under the CRI Seal of Approval Green Label program is recommended for vacuuming of all carpet. For a list of approved vacuums visit www.carpet-rug.org.

Regular maintenance of vacuums is also essential. Vacuums should be emptied and inspected after every use. Particular attention should be paid to the condition of the brushes. Also, make sure that there is no material obstructing the air-flow channel.

Typical vacuuming frequencies are as follows:

High traffic: Every full work day. All entrances, exits, lobbies, food service areas, main corridors, elevators, funnel and pivot points. The vacuum should make a minimum of three passes in all high traffic areas.

Medium traffic: Every other work day. All secondary corridors, conference rooms, private offices.

Low traffic: Once a week. Minimal use corridors, rarely used conference rooms and training rooms.

Spot Cleaning

Spots and stains are one of the biggest detriments to high appearance levels. In order to maintain a consistent appearance level between periodic maintenance, it's critical that spots and stains be removed on a daily basis. In most cases, daily spotting is the responsibility of the janitorial or housekeeping staff. Recommend the use of a Spot Kit for treating most spots, following these procedures:

1. Remove as much excess material as possible prior to spot removal. Blot up liquids with a clean white terry cloth, vacuum up soil and gently scrap up encrusted material.
 2. Spray Pre-mist onto a clean, white terry towel and work in gently. Do not scrub. Blot, absorbing as much of the spot into the towel as possible. Work from the outside edge of the spot into the center to prevent spreading.
 3. Apply dry carpet cleaner to the spot. Gently agitate with a brush, wait 30 mins and vacuum.
- Note: Do not recommend using any spotting agents containing solvents as they can leave residue that contributes to resoiling and can possibly damage the carpet.

Regular Cleaning

Regular cleaning of the carpet is required to remove ground in soil and soil that is bonded to the fiber. A dry cleaning method is preferred, however hot water extraction is an acceptable alternative using the following procedures. An appropriate pre-mist should be sprayed and brushed thoroughly into the carpet using a dual cylindrical brush type scrubber and allowed to work for the recommended dwell time. This should be followed by flushing with the Hot Water Extractor. For conditions where detergent residues are left in the carpet a mild acid (5.0 pH) type pre-mist mixed per label directions with water should be used.

For greasy, oily soil conditions, a higher pH product (8.5 or 9.0 pH) mixed with water per label directions should be used as the pre-mist. The Hot Water Extractor should be filled with plain hot tap water containing 5.0 oz. of acid rinse/gallon in the tank at a temperature not to exceed 140° F. This procedure should remove as much detergent residue, soil and/or debris as possible. The carpet should be allowed to fully dry using blowers and fans and be examined for wickback. (Wickback is a condition where soil moves from the lower part of the fiber to the tips as the carpet dries). If wickback is evident, repeat the pre-mist extraction process and again allow the carpet to fully dry. Re-check for wickback and repeat above procedure until there is no evidence of wickback. Once restored, the carpet should then be thoroughly vacuumed, and spot cleaned on a regular frequency in accordance with Milliken Approved Carpet Maintenance Procedures.

Recommend the use of cleaning products that have been approved by the Carpet and Rug Institute Seal of Approval. For a list of approved products visit www.carpet-rug.org.

Recommend that customers use a hot water extraction unit that is approved under the Carpet and Rug Institute Seal of Approval. For a list of approved extractors visit the above referenced website

3.06 PROTECTION

- A. Protect finished installation as instructed/deemed acceptable by owner and manufacturer's recommendations.

VersaFlex Down Lights

Indoor / Outdoor Lights



20W

The New Sleek Commercial LED Down Lights!

Features

- Available with either 4", 6", or 8" downlight cans
- Innovative separable design of junction box and trim
- Easy Installation
- Ideal for soffits and ceilings
- UL & Energy Star qualified
- Optional Retro Cable
- Optional Backup Battery

Advantage

- High quality aluminium alloy
- One engine allows for seamless integration of multiple trim options
- Safe and cool to touch
- Replace up to 85W halogen bulb
- Great heat sink dissipation
- Certificate: UL/cUL, Energy Star, LM79
- Warranty: 5 Years

Recommended Use

- Shopping Malls
- Retail Stores
- Banquet Halls
- Auditoriums
- Office Spaces

Input Voltage

- 100-277Vac 50/60Hz

Qualification



MELTON ELECTRIC

111 Jacob Lane, Myrtle Beach, SC 29579 | Office: (843) 236-3030 | Fax: (843) 236-3040 | jamiem@meltonelectric-sc.com

VersaFlex Down Lights

Indoor / Outdoor Lights

Product

PRODUCT NAME	LED VersaFlex Down Light	
SKU #	150233	150234
MODEL #	Versa- 20W- 30E	Versa- 20W- 50E
CCT	3000K	5000K

Specifications

LUMEN	1760LM
LUMEN EFFICACY	88LM/W
CONSUMPTION	20W
VIEWING ANGLE	65° for 4" / 70° for 6" / 75° for 8"
INPUT VOLTAGE	100-277V 50/60Hz
THD	<20%
POWER FACTOR	>0.9
LIFESPAN	50,000hrs

Fixture Specifications

LED TYPE	SMD
HOUSING	High Quality Aluminum Alloy
HOUSING COLOR	Silver

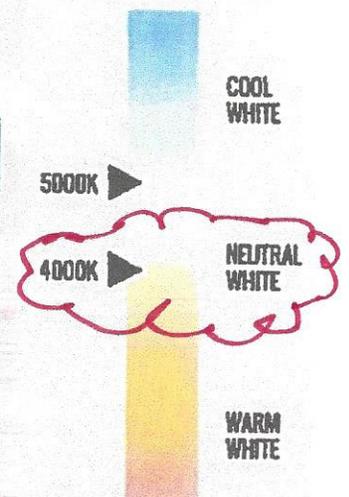
Others

OPERATING TEMPERATURE	APPLICATION	CRI	DIMMABLE
-4°F - 104°F	Indoor / Outdoor	Ra>80	No

Warranty & Qualification

WARRANTY	UL LISTED	ENERGY STAR
5-Year Limited	Yes	Yes

CORRELATED COLOR TEMPERATURE (CCT)



Due to continuous product improvement, information in this document is subject to change

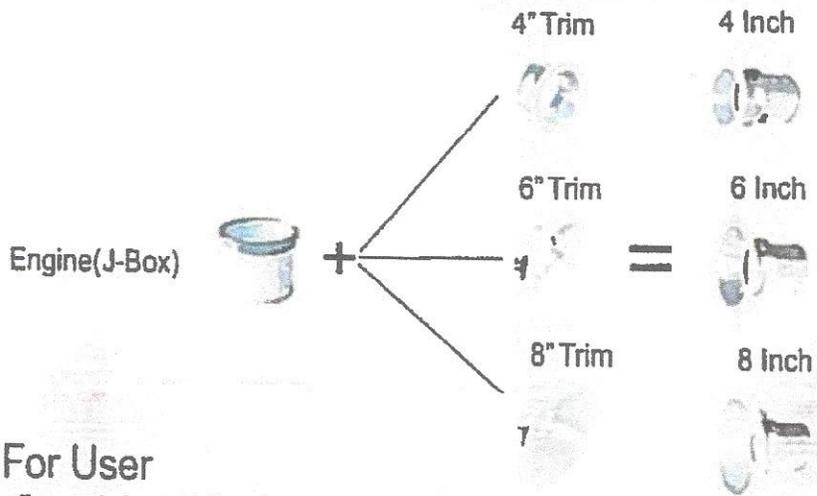
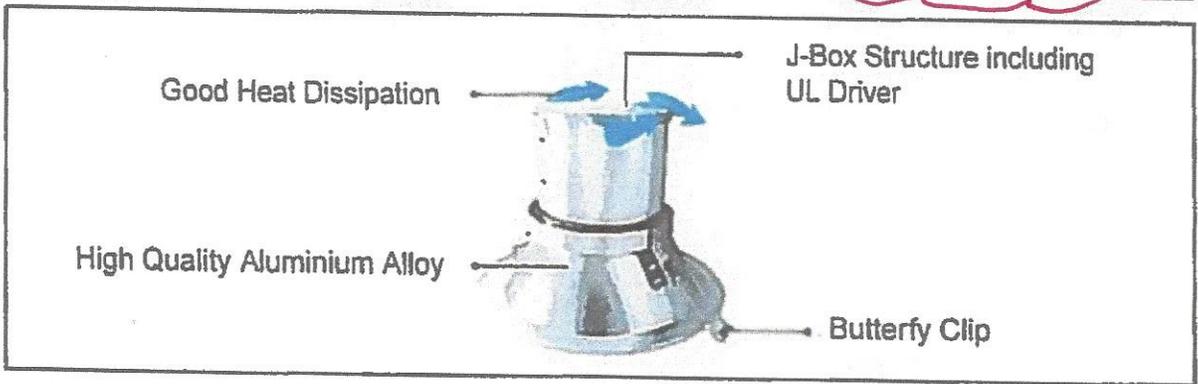
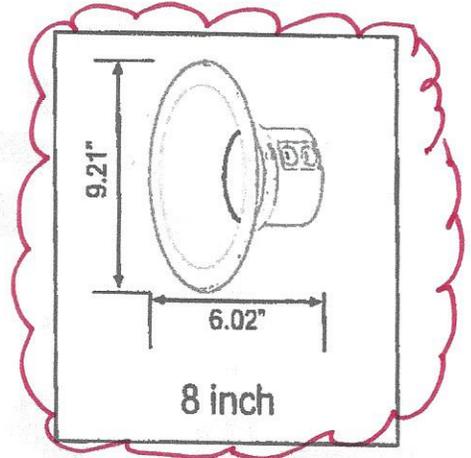
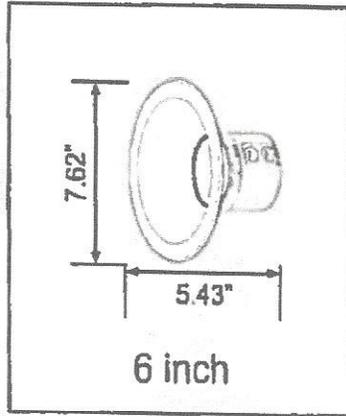
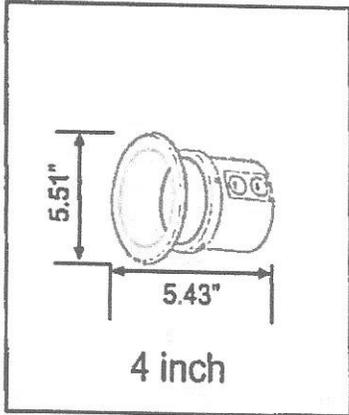
MELTON ELECTRIC

111 Jacob Lane, Myrtle Beach, SC 29579 | Office: (843) 236-3030 | Fax: (843) 236-3040 | jamiem@meltonelectric-sc.com

VersaFlex Down Light

Indoor / Outdoor Lights

Drawing



Notice For User

- Please turn off power before install or change assembly parts.
- The input voltage and lamps should be matched, after connecting the power line, Please make sure the wiring section is insulated
- Licensed Electrician Installation ONLY.

Due to continuous product improvement, information in this document is subject to change.

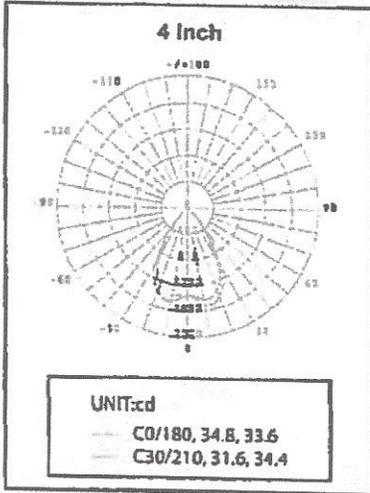
MELTON ELECTRIC

111 Jacob Lane, Myrtle Beach, SC 29579 | Office: (843) 236-3030 | Fax: (843) 236-3040 | jamiem@meltonelectric-sc.com

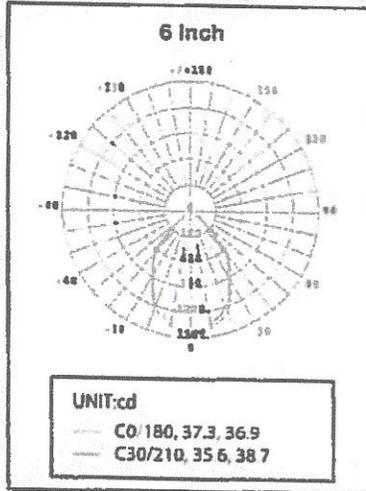
VersaFlex Series

Indoor / Outdoor Lights

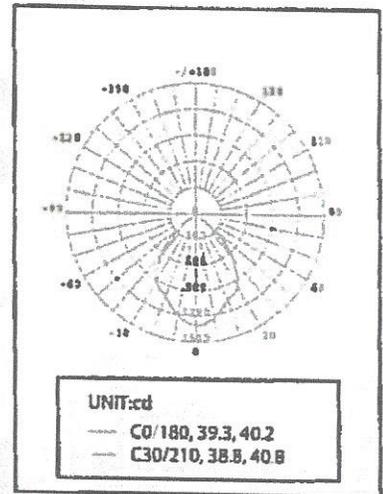
Light Distribution Testing Parameters



AVERAGE BEAM ANGLE(50%): 67.2 DEG

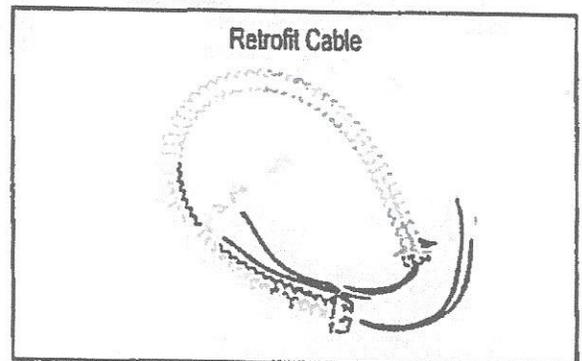
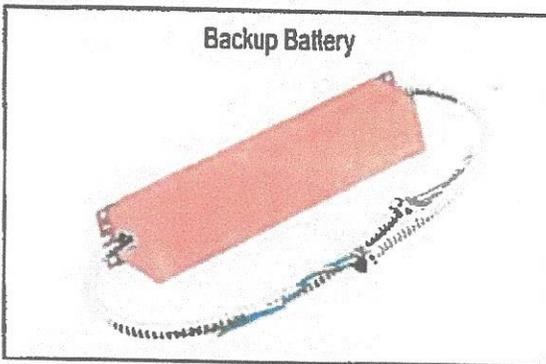


AVERAGE BEAM ANGLE(50%): 74.2 DEG



AVERAGE BEAM ANGLE(50%): 79.6 DEG

Optional Battery Backup



Battery Specifications

OUTPUT POWER	18W(max)	25W(max)
INPUT POWER	6W(Max)	
OUTPUT VOLTAGE	170VDC (Equivalent 120VAC)	
INPUT VOLTAGE	100-277 VAC, 50-60Hz	
EMERGENCY OPERATIONS	≥90 minutes	
OPERATING TEMP	0°C to 50°C	
BATTERY	High Temp Nickel-Cadmium 48 Hour Recharge 7-10 Year Life Expectancy	

Due to continuous product improvement, information in this document is subject to change.

MELTON ELECTRIC

111 Jacob Lane, Myrtle Beach, SC 29579 | Office: (843) 236-3030 | Fax: (843) 236-3040 | jamiem@meltonelectric-sc.com

LED DOWN LIGHTS