

**CONSTRUCTION SPECIFICATIONS:**

**SECTION 12 2413  
ROLLER WINDOW SHADES  
(CONTINUED)**

- 2.2 MANUFACTURED UNITS
- A. PRODUCT: MYLAR SHADES
  - B. SOLAR SHADE FABRIC: SELECT FROM NFPA 701-1999 FR AND ASTM-G21 AND G22 BACTERIA AND FUNGAL RESISTANCE APPROVED
    - COLOR: BRONZE / BRONZE
    - NO SEAMS FOR SHADES LESS THAN 72" IN ONE DIRECTION
      - % SOLAR TRANSMITTANCE 27
      - % SOLAR REFLECTANCE 19
      - % SOLAR ABSORBANCE 54
      - % VISIBLE LIGHT TRANSMITTANCE 15
    - SHADING COEFFICIENT 0.48
    - THICKNESS 4+ MM
  - C. ROLLER TUBES: SHALL BE 1/2" HARDENED ALUMINUM ROLLER WITH INTERNAL DRIVE KEY. LARGER DIAMETER ROLLERS SHOULD BE SUPPLIED FOR HEAVY SHADES
  - D. CLUTCH SYSTEMS: SHALL BE ROLL EASE MULTI DIRECTIONAL 8 POUND LIFT - COLOR TO BE BLACK. LARGER CLUTCHES SHOULD BE SUPPLIED FOR HEAVY SHADES
  - E. BRACKETS - SAFETY LOCKING POSITIVE DRIVE SPEER - LOCKING IDLER SIDE.
  - F. CHAIN - STAINLESS STEEL QUALIFIED WITH STOPS
  - G. BOTTOM HEM BAR WILL BE DECOR BAR BLACK 1/2" X 1" PUNCH PRESS TAPERED CUT FOR CLEAN (NO BUR) EDGE.
  - H. END CAPS - COLOR TO BE BLACK. BONDED TO THE BOTTOM BAR.
  - I. CHAIN HOLD DOWN - CLEAR DOG BONE WITH SCREW THAT LOCKS CHAIN INTO PLACE.

**PART 3 EXECUTION**

- 3.1 INSTALLATION
- A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
  - B. PROVIDE ADEQUATE CLEARANCES TO ALLOW FOR PROPER OPERATION.
  - C. PLACE UNITS TO LOCATE SHADE CLOTH MINIMUM 2 INCHES FROM INTERIOR FACE OF GLASS.
- 3.2 ADJUSTING
- A. ADJUST SHADES FOR SMOOTH, QUIET OPERATION.

**SECTION 12 4813  
ENTRANCE FLOOR MATS**

**PART 1 GENERAL**

- 1.1 SUMMARY
- A. SECTION INCLUDES:
    1. ALUMINUM GRID FLOOR MATS.
    2. RECESSED FRAME.
- 1.3 SYSTEM DESCRIPTION
- a. PERFORMANCE REQUIREMENTS: PROVIDE RECESSED ALUMINUM ENTRANCE FLOOR MAT SYSTEM, WHICH HAS BEEN MANUFACTURED AND INSTALLED TO MAINTAIN PERFORMANCE CRITERIA STATED BY MANUFACTURER WITHOUT DEFECTS, DAMAGE OR FAILURE.
- 1.4 SUBMITTALS
- a. PRODUCT DATA: SUBMIT PRODUCT DATA, INCLUDING MANUFACTURER'S SPECIFICATION SHEET AND INSTALLATION INSTRUCTIONS FOR SPECIFIED PRODUCTS. INCLUDE METHODS OF INSTALLATION AND SUBSTRATE PREPARATION FOR EACH TYPE OF SUBSTRATE.
  - b. SHOP DRAWINGS: SUBMIT SHOP DRAWINGS SHOWING LAYOUT, PROFILES AND PRODUCT COMPONENTS, INCLUDING ANCHORAGE, ACCESSORIES, FINISH COLORS, PATTERNS AND TEXTURES.
  - c. SAMPLES: SUBMIT SAMPLES FOR EACH TYPE AND COLOR OF EXPOSED ENTRANCE MAT, FRAMES AND ACCESSORIES REQUIRED. PROVIDE SAMPLES OF MAT MATERIALS.
  - d. QUALITY ASSURANCE SUBMITTALS: (1) CERTIFIED TEST REPORTS SHOWING COMPLIANCE WITH SPECIFIED PERFORMANCE CHARACTERISTICS AND PHYSICAL PROPERTIES, AND (2) MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  - e. CLOSEOUT SUBMITTALS: (1) CLEANING & MAINTENANCE DATA (INCLUDE METHODS FOR MAINTAINING INSTALLED PRODUCTS AND PRECAUTIONS AGAINST CLEANING MATERIALS AND METHODS DETRIMENTAL TO FINISHES AND PERFORMANCE), AND (2) WARRANTY.
- 1.5 QUALITY ASSURANCE
- a. INSTALLER: INSTALLER SHOULD BE HIGHLY EXPERIENCED IN PERFORMING WORK OF THIS SECTION, HAVING PREVIOUSLY DONE WORK SIMILAR TO THAT REQUIRED FOR THIS PROJECT.
- 1.6 SEQUENCING/SCHEDULING
- a. ORDERING: COMPLY WITH MANUFACTURER'S ORDERING INSTRUCTIONS AND LEAD-TIME REQUIREMENTS TO AVOID CONSTRUCTION DELAYS.
  - b. DELIVERY: DELIVER MATERIALS IN MANUFACTURER'S ORIGINAL, UNOPENED, UNDAMAGED PACKAGING.
  - c. STORAGE: STORE MATERIALS AT TEMPERATURE AND IN HUMIDITY CONDITIONS RECOMMENDED BY MANUFACTURER AND PROTECT FROM EXPOSURE TO HARMFUL WEATHER CONDITIONS.
  - d. INSTALLATION: EXCEPT AS OTHERWISE INDICATED HEREIN, SEQUENCING OR SCHEDULING FOR PERFORMANCE OF WORK OF THIS SECTION IN RELATION WITH OTHER WORK IS CONTRACTOR'S OPTION. DELAY INSTALLATION OF MATS UNTIL NEAR TIME OF SUBSTANTIAL COMPLETION FOR THE PROJECT.
- 1.7 PROJECT CONDITIONS
- a. TEMPERATURE: MAINTAIN TEMPERATURE WHERE PRODUCTS WILL BE INSTALLED BEFORE, DURING AND AFTER INSTALLATION AS RECOMMENDED BY MANUFACTURER.
  - b. FIELD MEASUREMENTS: WHERE POSSIBLE, VERIFY ACTUAL MEASUREMENTS BY FIELD MEASURING BEFORE FABRICATION AND INCLUDE MEASUREMENTS IN SHOP DRAWINGS. TO AVOID CONSTRUCTION DELAYS, COORDINATE FIELD MEASUREMENTS AND FABRICATION SCHEDULE BASED UPON CONSTRUCTION PROGRESS.

**PART 2 PRODUCTS**

- 2.1 ACCEPTABLE MANUFACTURER
- A. PROVIDE DUAL TRACK FOOT GRILLE BY **MATS INC.**, 37 SHUMAN AVENUE, STOUGHTON, MA, 02072, TELEPHONE 800-628-7462 OR 781-344-1536, FAX 781-344-1537, WWW.MATSINC.COM.
- 2.2 MATERIALS
- A. PRODUCT: DUAL TRACK.
    - 1) CONSTRUCTION: BOLT-THRU DESIGN WITH INDIVIDUAL ALUMINUM SPACERS. SWEDGE, WELDED AND KEY LOCK FASTENING OF RAILS IS NOT ALLOWED.
    - 2) MATERIAL: ALUMINUM ALLOY TYPE 6061-T6. SOFT ALUMINUM ALLOY (SUCH AS 6063-T52) IS NOT ALLOWED.
    - 3) DRYING INSERT: DRYING INSERTS TO BE NYLON MATERIAL WITH 5% POST-CONSUMER RECYCLED CONTENT.
    - 4) RECYCLED CONTENT: ALUMINUM TO BE 43.97% PRE-CONSUMER AND 14.1% POST-CONSUMER RECYCLED CONTENT
    - 5) BLADES: T-SHAPED BLADES, 1-5/16 X 1/8 X 1-1/2 INCH SIZE. COMBINATION T-SHAPED BLADES 1-1/8 X 1/8" WITH ANTI-SLIP POLYMER C9066 INSERT. SPACING BETWEEN BLADES NOT TO EXCEED 3/16"
    - 6) DIMENSION: GRILLE DEPTH TO BE 1/2" WITH FRAME "S"
    - 7) PANELS: FOOT GRILLE TO BE SUPPLIED IN PANELS NOT TO EXCEED 48" X 42". PIECE DESIGN NOT ALLOWED. ALL GRILLE PANELS TO BE SUPPLIED WITH INDIVIDUAL PREFABRICATED, FACTORY-ASSEMBLED.
    - 8) LOAD CAPACITY: 3.831 LBS PER 2 FOOT SPAN
  - B. FRAMING ACCESSORIES FOR RECESSED ALUMINUM MATS: GRILLE SPRING WILL HAVE THE FOLLOWING CHARACTERISTICS:
    1. RECESSED FRAME INTEGRATED WITH CONCRETE SUBSTRATE. THE PERIMETER FRAMES SHALL BE RECESSED INTO THE CONCRETE.
    2. PERIMETER FRAMES SHALL BE ANGLE AD FRAME, EITHER "LEVEL" OR "EMBEDDED" DEPENDING ON THE INSTALLATION. FOR INSTALLATION WITH EITHER NEW CONSTRUCTION OR RETROFITS, ALL ALUMINUM FRAMES SHALL BE PRE-ASSEMBLED AT FACTORY INCORPORATING WELDED CONSTRUCTION FOR ALL JOINTS. EACH GRILLE SECTION SHALL INCORPORATE AN INVISIBLE SECTION DIVIDER INTEGRATED AND WELDED WITHIN THE FRAME. FRAMES AND GRILLES SHALL BE SHIPPED FULLY ASSEMBLED IN PROTECTIVE WOODEN CRATING TO EACH JOBSITE. FOR SECTIONS LARGER THAN 8'-0" BY 8'-0" A MECHANICAL JOINT IS TO BE PROVIDED, (IF SPECIFIED).
    3. RECESSED FRAME FOR EITHER CONCRETE SUBSTRATE OR FINISHED SURFACE. THE PERIMETER FRAMES SHALL BE AN ANGLE AD FRAME, EITHER "LEVEL" OR "EMBEDDED" DEPENDING ON THE INSTALLATION. FOR INSTALLATION WITH EITHER NEW CONSTRUCTION OR RETROFITS, ALL ALUMINUM FRAMES SHALL BE PRE-ASSEMBLED AT FACTORY INCORPORATING WELDED CONSTRUCTION FOR ALL JOINTS. EACH GRILLE SECTION SHALL INCORPORATE AN INVISIBLE SECTION DIVIDER INTEGRATED AND WELDED WITHIN THE FRAME. FRAMES AND GRILLES SHALL BE SHIPPED FULLY ASSEMBLED IN PROTECTIVE WOODEN CRATING TO EACH JOBSITE. FOR SECTIONS LARGER THAN 8'-0" BY 8'-0" A MECHANICAL JOINT IS TO BE PROVIDED, (IF SPECIFIED).
    4. PERIMETER FRAMES SHALL BE "Z" SHAPE SUCH AS MODEL "TT" BY MATS INC. FOR INSTALLATION OVER FINISHED FLOOR SURFACES. ALL ALUMINUM FRAMES SHALL BE PRE-ASSEMBLED AT FACTORY INCORPORATING WELDED CONSTRUCTION FOR ALL JOINTS. EACH GRILLE SECTION SHALL INCORPORATE AN INVISIBLE SECTION DIVIDER INTEGRATED AND WELDED WITHIN THE FRAME. FRAMES AND GRILLES SHALL BE SHIPPED FULLY ASSEMBLED IN PROTECTIVE WOODEN CRATING TO EACH JOBSITE. FOR SECTIONS LARGER THAN 8'-0" BY 8'-0" A MECHANICAL JOINT IS TO BE PROVIDED, (IF SPECIFIED).

- C. OPTIONAL ACCESSORIES FOR RECESSED ALUMINUM FOOT GRILLE
    1. RECESSED PAN: 20 GAUGE ALUMINUM (OPTIONAL)
    2. ACCESSORIES: STAINLESS STEEL HINGES
  - D. PRODUCT TESTING FOR RECESSED FOOT GRILLE
    1. ASTM C1028 STATIC COEFFICIENT OF FRICTION: 1.21
    2. ASTM B117 PRODUCT CORROSION TO SALT: PRODUCT WITHSTANDS 1000 HOURS OF SALT FOG WITHOUT ANY NOTICEABLE CHANGES.
- 2.3 PRODUCT SUBSTITUTIONS
- A. SUBSTITUTIONS: NO SUBSTITUTIONS PERMITTED.

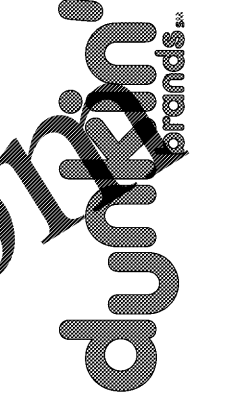
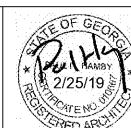
**PART 3 EXECUTION**

- 3.1 SUBSTRATE PREPARATION
- A. EXAMINE SUBSTRATES AND CONDITIONS WHERE FLOOR MATS WILL BE INSTALLED. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED. SUB FLOOR SHALL BE CLEAN AND DRY, AND WITHIN ACCEPTABLE TOLERANCES.
- 3.2 INSTALLATION
- A. SIZES: SHOP-FABRICATE UNITS OF FLOOR MAT TO GREATEST EXTENT POSSIBLE IN SIZES AS INDICATED. WHERE NOT INDICATED OTHERWISE, PROVIDE SINGLE UNIT FOR EACH MAT INSTALLATION, BUT DO NOT EXCEED MANUFACTURER'S MAXIMUM SIZE RECOMMENDATION FOR UNITS INTENDED FOR REMOVAL AND CLEANING. WHERE JOINTS IN MATS ARE NECESSARY, SPACE SYMMETRICALLY AND AWAY FROM NORMAL TRAFFIC LANES. MITER CORNER JOINTS IN FRAMING ELEMENTS WITH HAIRLINE JOINTS OR PROVIDE PREFABRICATED CORNER UNITS WITHOUT JOINTS. WHERE POSSIBLE, VERIFY SIZES BY FIELD MEASUREMENT BEFORE SHOP FABRICATION.
  - B. ACCESSORIES: WHERE INDICATED FOR RECESSED OR WALL-TO-WALL APPLICATIONS, PROVIDE ALUMINUM FRAMEWORK AS RECOMMENDED BY MANUFACTURER.
  - C. GENERAL: STRICTLY COMPLY WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. COORDINATE INSTALLATION WITH ADJACENT WORK TO ENSURE PROPER CLEARANCES AND TO PREVENT TRIPPING HAZARDS.
- 3.3 CLEANING AND PROTECTION
- A. GENERAL CLEANING: REFER TO MANUFACTURER'S CLEANING AND MAINTENANCE INSTRUCTIONS.
  - B. OWNER'S PERSONNEL: INSTRUCT OWNER'S PERSONNEL IN PROPER MAINTENANCE PROCEDURES.
  - C. PROTECTION: PROTECT INSTALLED PRODUCT AND FINISH SURFACES FROM DAMAGE DURING CONSTRUCTION AND UNTIL ACCEPTANCE.

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ATLANTA GA 30309

**CONSTRUCTION SPECIFICATIONS (CONT.)**

ARCHITECT PROJECT #18-028

**GN-1.6**