

CONSTRUCTION SPECIFICATIONS:

SECTION 08 1416 FLUSH WOOD DOORS (CONTINUED)

- 3.2 INSTALLATION
A. INSTALL DOORS IN ACCORDANCE WITH WDMA 1.5.1.
B. INSTALL DOORS PLUMB AND LEVEL.
C. FIELD FITTING TO FRAMES.
1. NON-RATED DOORS:
a. WIDTH: CUT HINGE AND LOCK EDGES EQUALLY.
b. HEIGHT: CUT BOTTOM EDGE ONLY; MAXIMUM 3/4 INCH.
2. EDGE CLEARANCES:
a. JAMBS AND HEAD: 1/8 INCH MAXIMUM BETWEEN DOOR AND FRAME.
b. SILLS WITHOUT THRESHOLDS: 1/8 INCH MAXIMUM BETWEEN DOOR AND TOP OF FINISH FLOOR.
3. LOCK EDGE: BEVEL 1/8 INCH IN 2 INCHES.
4. DO NOT CUT DOORS DOWN TO OPENING SIZES SMALLER THAN THOSE FOR WHICH THEY WERE MANUFACTURED.
D. INSTALLATION TOLERANCES:
1. WARP: MAXIMUM 1/4 INCH IN ANY 3'-0" X 7'-0" PORTION OF DOOR, MEASURED WITH TAUT STRINGS OR STRAIGHT EDGE ON CONCAVE FACE OF DOOR.

SECTION 08 2113 PLASTIC FACED SOLID CORE METAL CLAD DOOR

- PART 1 GENERAL
1.2 SUBMITTALS
A. SUSTAINABLE DESIGN SUBMITTALS:
1. RECYCLED CONTENT.
2. REGIONAL MATERIALS.
PART 2 PRODUCTS
2.1 MANUFACTURERS
A. ACCEPTABLE MANUFACTURERS:
1. ELIASON CORPORATION, KALAMAZOO, MI
2.2 MATERIALS
A. DOOR BODY
1. .063" THICK TEMPERED ALUMINUM ALLOY WITH DELTA FORMED VERTICAL EDGES.
2. RECYCLED CONTENT: MINIMUM PERCENT, WITH MINIMUM PERCENT CLASSIFIED AS POST-CONSUMER AS SHOWN ON DRAWINGS
2.3 FINISHES
REFER TO DOOR SCHEDULE SHEET.

SECTION 08 4113 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

- PART 1 GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. ALUMINUM ENTRANCE DOORS AND FRAMES.
2. ALUMINUM FRAMED GLAZED STOREFRONTS.
3. GLASS INFILL PANELS.
4. DOOR HARDWARE.
1.3 SYSTEM DESCRIPTION
A. DESIGN REQUIREMENTS: DESIGN EXTERIOR SYSTEMS TO WITHSTAND:
1. DESIGN WIND PRESSURE IN ACCORDANCE WITH ASCE 7, BUILDING CODE, TESTED IN ACCORDANCE WITH ASTM E330.
2. MOVEMENT CAUSED BY AN AMBIENT TEMPERATURE RANGE OF 120 DEGREES F AND A SURFACE TEMPERATURE RANGE OF 180 DEGREES F.
B. PERFORMANCE REQUIREMENTS:
1. AIR INFILTRATION, TESTED TO ASTM E283.
a. ENTRANCES:
1) SINGLE DOOR: MAXIMUM 0.5 CFM PER MINUTE PER LINEAR FOOT OF PERIMETER CRACK, AT STATIC PRESSURE DIFFERENTIAL OF 6.24 PSF.
b. STOREFRONT: 0.8 CFM PER SQUARE FOOT OF FIXED AREA AT STATIC PRESSURE DIFFERENTIAL OF 6.24 PSF.
2. WATER INFILTRATION: NO UNCONTROLLED WATER LEAKAGE, TESTED TO ASTM E331 AT MINIMUM TEST PRESSURE OF 6.24 PSF FOR INSURING DOORS AND 8.0 PSF FOR OUTSWING DOORS AND STOREFRONT.
3. UNIFORM STRUCTURAL LOADING: NO GLASS BREAKAGE OR PERMANENT DAMAGE TO FASTENERS OR SYSTEM COMPONENTS, TESTED TO ASTM E330 AT 1.5 TIMES DESIGN PRESSURE.
4. THERMAL TRANSMITTANCE DUE TO CONDUCTION (UC): MAXIMUM 0.60, TESTED TO AAMA 1500 ON TWO 6'0" X 6'0" UNITS WITH 1 INCH CLEAR INSULATING GLASS.
5. CONDENSATION RESISTANCE FACTOR (CRF): MINIMUM 50, TESTED TO AAMA 1503.
1.4 SUBMITTALS
A. SUBMITTALS FOR REVIEW:
1. SHOP DRAWINGS: INDICATE SYSTEM DIMENSIONS, FRAMED OPENING REQUIREMENTS AND TOLERANCES, TRIM, SEALERS, HARDWARE, AND ACCESSORIES.
B. SUSTAINABLE DESIGN SUBMITTALS:
1. RECYCLED CONTENT.
2. REGIONAL MATERIALS.

- B. INSTALL COMPONENTS PLUMB AND LEVEL, IN PROPER PLANE, FREE FROM WARP AND TWIST.
C. ANCHOR TO SUPPORTING CONSTRUCTION.
D. SET THRESHOLDS AND SILL MEMBERS EXPOSED TO WEATHER IN MASTIC AND SECURE.
E. INSTALL HARDWARE USING TEMPLATES PROVIDED BY MANUFACTURER.
F. INSTALL GLASS AND ACCESSORIES IN ACCORDANCE WITH SECTION 08 8000.
G. INSTALLATION TOLERANCES:
1. MAXIMUM VARIATION FROM PLUMB OR LEVEL: 1/8 INCH IN 3 FEET OR 1/4 INCH IN ANY 10 FEET, WHICHEVER IS LESS.
2. MAXIMUM MISALIGNMENT OF MEMBERS ABUTTING END TO END: 1/32 INCH.
3. SEALANT SPACE BETWEEN FRAMING MEMBERS AND ADJACENT CONSTRUCTION: 1/2 INCH PLUS OR MINUS 1/8 INCH.
3.2 ADJUSTING
A. ADJUST HARDWARE FOR SMOOTH OPERATION.
B. ADJUST DOORS TO OPERATE WITH MAXIMUM OPENING FORCES IN ACCORDANCE WITH APPLICABLE ACCESSIBILITY CODE.
C. TOUCH UP MINOR SCRATCHES AND ABRASIONS TO MATCH ORIGINAL FINISH.
D. ADJUST WEATHERSTRIPPING TO CONTACT APPROPRIATE SURFACES AND FORM WEATHER SEAL.

SECTION 08 5619 DRIVE-THRU WINDOW

- PART 1 GENERAL
1.1 WORK INCLUDED
A. FURNISH ALL LABOR, MATERIAL, SERVICE AND EQUIPMENT NECESSARY TO COMPLETE THE INSTALLATION OF THE DRIVE-THRU WINDOW AS DETAILED ON THE DRAWINGS AND SPECIFIED IN THIS SECTION.
PART 2 PRODUCTS
2.1 DRIVE-THRU WINDOW
A. SHALL BE AS MANUFACTURED BY READY-ACCESS OF WEST CHICAGO, ILLINOIS OR QUICKSERVE OF HOUSTON, TX - SEE NATIONAL ACCOUNT SOURCE INFORMATION FOR ORDERING INFORMATION.
B. READY-ACCESS #275 (FLUSH MOUNT, SINGLE PARTING), SHALL MEET THE FOLLOWING CRITERIA:
1. TOTAL OVERALL DIMENSION 47-1/2 IN. WIDE BY 43-1/2 IN. HIGH.
2. WINDOW OPENING SIZE 19 IN. WIDE BY 35 IN. HIGH.
3. CLEAR ANODIZED ALUMINUM EXTRUSIONS.
4. TRACK FREE BOTTOM SILL PROVIDES FOR A CONTAMINANT SURFACE.
5. AUTOMATIC LOCKS EACH TIME THE WINDOW CLOSES.
6. SLIDING WINDOW AUTOMATICALLY OPENS HORIZONTALLY WHEN THE SERVER STEPS INTO THE RANGE OF THE WINDOW SCAN CONTROL WINDOW REMAINS OPEN A LONG AS SERVER STAYS IN SCAN BEAM. WINDOW CLOSES ONCE SERVER STEPS AWAY FROM WINDOW SCAN BEAM.
7. WINDOW CAN BE OPENED MANUALLY IF POWER GOES OFF.
8. GLASS SHALL BE 1/4 IN. TEMPERED GLASS AS SPECIFIED IN SECTION 08800.
9. INSTALLATION BY LOCAL READY-ACCESS DISTRIBUTOR (OPTIONAL).
10. ONE (1) YEAR WARRANTY ON PARTS AND LABOR.
11. PREPAID FREIGHT TO JOB SITE.
12. COLOR TO MATCH STOREFRONT
C. OPTIONAL MODELS #131-6 (FLUSH MOUNT, BI-PARTING) AND BUMP-OUT 10 ALSO AVAILABLE FOR SITUATIONS WHERE #275 (FLUSH MOUNT, SINGLE PARTING) MODEL CANNOT BE USED. SEE NATIONAL ACCOUNT SOURCE INFORMATION FOR COMPLETE SPECIFICATIONS.
D. OPTIONAL QUICKSERVE MODEL ARE AVAILABLE - SEE NATIONAL ACCOUNTS

- PART 3 EXECUTION
3.1 INSTALLATION OF DRIVE-THRU WINDOW
A. ALUMINUM PLACED IN CONTACT WITH DISSIMILAR MATERIAL, INCLUDING STEEL, CONCRETE, CINDER BLOCK, TILE OR OTHER MASONRY MATERIAL SHALL BE BACK-PAINTED WITH AN APPROVED BITUMINOUS PAINT.
B. ALL JOINTS BETWEEN METAL AND MASONRY SHALL BE FULLY CAULKED IN ORDER TO SECURE A WATER TIGHT JOINT WITH DYMERIC 511 (MIL TI-COMPOUND CHEMICALLY CURED POLYURETHANE) AS MANUFACTURED BY TREMCO MANUFACTURING COMPANY, BEECHWOOD, OHIO. APPLY IN STRICT ACCORDANCE WITH MANUFACTURER'S DIRECTIONS. JOINTS SHALL BE NEATLY POINTED AND EXCESS SHALL BE REMOVED. SET FILLER PLATES IN CAULKING.
3.2 PROTECTION AND CLEANING
A. DRIVE-THRU WINDOW SHALL BE PROTECTED DURING CONSTRUCTION AND AFTER INSTALLATION TO PREVENT INJURY AND /OR STAINING. ALL ALUMINUM WORK SHALL BE THOROUGHLY CLEANED UPON COMPLETION OF THE WORK. DO NOT USE ABRASIVE CLEANING AGENTS.

SECTION 08 7100 DOOR HARDWARE

- PART 1 GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. HARDWARE FOR STEEL, WOOD, AND ALUMINUM DOORS.
2. WEATHERSTRIPPING AND THRESHOLDS.
3. HARDWARE FOR OTHER SECTIONS REFERENCING THIS SECTION.

- PART 2 PRODUCTS
2.1 MANUFACTURERS
A. ACCEPTABLE MANUFACTURERS - BUTT HINGES:
1. HAGER COMPANIES. (WWW.HAGERCO.COM)
B. ACCEPTABLE MANUFACTURERS - LOCKSETS, LATCHSETS, DEADLOCKS, AND CYLINDERS:
1. HAGER COMPANIES. (WWW.HAGERCO.COM)
C. ACCEPTABLE MANUFACTURERS - CLOSERS:
1. HAGER COMPANIES. (WWW.HAGERCO.COM)
D. ACCEPTABLE MANUFACTURERS - DOOR SEALS:
1. HAGER COMPANIES. (WWW.HAGERCO.COM)
2.2 MATERIALS
A. ALUMINUM:
1. EXTRUSIONS: ASTM B221, 6063-T5 ALLOY AND TEMPER.
2. SHEET: ASTM B209, ALLOY AND TEMPER BEST SUITED TO APPLICATION.
3. RECYCLED CONTENT: MINIMUM PERCENT, WITH MINIMUM PERCENT CLASSIFIED AS POST-CONSUMER AS SHOWN ON DRAWINGS.
2.3 COMPONENTS
A. ENTRANCES DOORS: NARROW STILE CONFIGURATION WITH NOMINAL 2 INCH VERTICAL STILES AND TOP RAIL AND 10 INCH BOTTOM RAIL.
B. STOREFRONT: FLUSH GLAZING SYSTEM DESIGNED TO RECEIVE 1 INCH GLASS BY MEANS OF ELASTOMERIC GASKETS, 2 INCH FACE WIDTH X 4-1/2 INCH DEPTH, CENTER GLASS APPLICATION, THERMALLY BROKEN.
C. DOOR HARDWARE: SPECIFIED IN SECTION 08 7100.
2.4 ACCESSORIES
A. FASTENERS:
1. SERIES 300 STAINLESS STEEL FOR WET LOCATIONS AND EXPOSED FASTENERS.
2. STAINLESS OR FLUOROPOLYMER COATED STEEL FOR OTHER LOCATIONS.
B. JOINT SEALERS: SPECIFIED IN SECTION 07 9200.
C. GLASS AND GLAZING ACCESSORIES: SPECIFIED IN SECTION 08 8000.
D. WEATHERSTRIPPING: REPLACEABLE, NONPOROUS SYNTHETIC WOOL FIBER.

- 2.5 FABRICATION
A. FABRICATE WITH MINIMAL CLEARANCES BETWEEN SPACES AROUND PERIMETER.
B. ACCURATELY FIT AND SECURE JOINTS AND INTERSECTIONS. MAKE JOINTS FLUSH AND LINE, AND WEATHER TIGHT.
C. FABRICATE IN LARGEST PRACTICAL UNITS.
D. CONCEAL FASTENERS AND ATTACHMENTS FROM VIEW.
E. FABRICATE ALUMINUM COMPONENTS WITH INTERIOR DOWN CHANNELS. PLACE THERMAL BARRIER LOCATED BETWEEN EXTERIOR AND INTERIOR EXPOSED COMPONENTS THAT ELIMINATES METAL-TO-METAL CONTACT.
F. DOOR HARDWARE:
1. MECHANICAL FASTENERS AND WELLS TO SUPPORT CONSTRUCTION.
2. FABRICATE WITH THICK EXTRUSIONS AND GLASS STOPS FROM 1/8" TO 1/4" THICK EXTRUSIONS.
3. PROVIDE WEATHERSTRIPPING AT DOOR HEAD, JAMBS, MEETING STILES, AND SILLS.
4. PREPARE WITH INTERNAL REINFORCEMENTS FOR DOOR HARDWARE.
2.6 FINISHES
A. ALUMINUM: AAMA 611 ARCHITECTURAL CLASS 1 ANODIZED TO 0.0007 INCH MINIMUM THICKNESS, ALUMINUM ANODIZED FINISH.

- PART 3 EXECUTION
3.1 INSTALLATION
A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPROVED SHOP DRAWINGS.

- F. FLUSH BOLTS: MANUAL TYPE, 12 INCHES LONG, WITH DUSTPROOF STRIKE.
2.3 FINISHES
A. FINISHES: TO ANSIBHMA A156.18.
B. DOOR CLOSERS: FINISH NO. 689, SILVER ENAMEL.
C. THRESHOLDS AND DOOR SEAL HOUSINGS: CLEAR ANODIZED.
D. OTHER: FINISH NO. 626, SATIN CHROME PLATED.

- PART 3 EXECUTION
3.1 INSTALLATION
A. INSTALL HARDWARE IN ACCORDANCE WITH APPROVED HARDWARE SCHEDULE AND MANUFACTURER'S INSTRUCTIONS.
B. INSTALL MORTISE TENON FLUSH WITH ADJACENT SURFACES.
C. INSTALL LOCKSETS, CLOSERS, AND TRIM AFTER FINISH PAINTING.
D. SET THRESHOLDS IN MASTIC AND SECURE.
E. MOUNT CLOSERS SO THAT CLOSERS AND CLOSER ARMS ARE NOT VISIBLE ON CORRIDOR OR PUBLIC SIDE OF DOORS OR ON EXTERIOR OF BUILDING.
F. MOUNTING HEIGHTS - SEE DRAWINGS.
3.2 PROTECTION
A. REMOVE OR PROTECT HARDWARE UNTIL PAINTING IS COMPLETED.
3.3 ADJUSTING
A. TEST AND ADJUST HARDWARE FOR QUIET, SMOOTH OPERATION, FREE FROM BINDING AND RATTLING.
B. ADJUST DOORS TO OPERATE WITH MAXIMUM OPENING FORCES IN ACCORDANCE WITH APPLICABLE ACCESSIBILITY CODE.

- 3.4 SCHEDULE
A. SET NO. 1 - DOOR FROM SALES AREA TO EXTERIOR. (SEE DOOR SCHEDULE AND FLOOR PLAN FOR QUANTITY, SIZE AND DIRECTION OF SWING.)
1. TEMPORARY CYLINDER, HAGER 3901 OR 3902 AS REQUIRED.
2. HAGER S200 M.L.T. 1-9 DLY ALM (HANDICAP ACCESS) DOOR CLOSERS
3. OFFSET PIVOTS.
4. ADAMS RITE MS 1850A DEADLOCK.
5. MANUFACTURER'S STANDARD PUSH/PULL HARDWARE. REFER TO DRAWINGS FOR DOORS WHICH ARE TO BE PREPARED FOR CUSTOM "D" HANDLES. REFER TO NATIONAL ACCOUNTS FOR ORDERING AND INSTALLATION INFORMATION.
6. HAGER 4045 MIL 1/2" X 4" THRESHOLD
B. SET NO. 2 - DOORS FROM TOILETS TO HALL. (SEE DOOR SCHEDULE AND FLOOR PLAN FOR QUANTITY, SIZE AND DIRECTION OF SWING.)
1. 1-1/2 PAIR BUTTS, HAGER, BB-1279 2BD
2. 1 LOCKSET, HAGER 3440 WTN US26D
3. 1 FLOOR STOP, HAGER 2415 US26D
4. 1 KICK PLATE, HAGER 2145 BLACK 10" X 2' L.W.O.D. LOCAL BARRIER FREE CODE MAY REQUIRE LARGER KICK PLATES - VERIFY BEFORE ORDERING.
5. 1 CLOSER, HAGER S200 M.L.T. 1-6 ALM
C. SET NO. 3 - DOOR FROM STORAGE TO EXTERIOR. METAL DOOR AND FRAME. (SEE DOOR SCHEDULE AND FLOOR PLAN FOR QUANTITY, SIZE AND DIRECTION OF SWING.)
1. 3 EA. HINGES, HAGER BB1191 32D
2. 1 LOCKSET, HAGER 3405 WTN US26D
3. 1 CLOSER, HAGER S100 PA 1-6 HOHOS ALM
4. 1 THRESHOLD, HAGER 4135 MIL
5. 1 SWEEP, HAGER 8025 B MIL
6. 1 HOLDER/STOP, HAGER 8665 US26D
7. 1 SET W/STRIPPINGS, HAGER 8005 B MIL
8. 1 LOCK GUARD, HAGER 341D 32D
9. 1 DOOR VIEWER, HAGER 1756 US26D
10. ALTERNATE DOOR VIEWER: MODEL HL-VGL-FW, 9" X 5", NATIONAL GUARD PRODUCTS

SECTION 08 8000 GLAZING

- PART 1 GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. GLASS FOR OTHER SECTIONS REFERENCING THIS SECTION.
1.3 SUBMITTALS
A. SUSTAINABLE DESIGN SUBMITTALS:
1. RECYCLED CONTENT.
2. REGIONAL MATERIALS.
3. LOW-EMITTING MATERIALS.
1.4 PROJECT CONDITIONS
A. PERFORM GLAZING WHEN AMBIENT TEMPERATURE IS ABOVE 40 DEGREES F.
B. PERFORM GLAZING ON DRY SURFACES.

- PART 2 PRODUCTS
2.1 MANUFACTURERS
A. ACCEPTABLE MANUFACTURERS - GLASS:
1. PPG INDUSTRIES, INC. (WWW.PPG.COM)
2. PILKINGTON ARCHITECTURAL GLASS (WWW.PILKINGTON.COM)
2.2 MATERIALS - GLASS
A. CLEAR GLASS: ASTM C1036, TYPE 1 TRANSPARENT FLAT, CLASS 1 CLEAR, QUALITY Q3 GLAZING SELECT.
B. CLEAR TEMPERED GLASS: ASTM C1048, TYPE 1 TRANSPARENT FLAT, CLASS 1 CLEAR, QUALITY Q3 GLAZING SELECT, KIND FT FULLY TEMPERED.
C. RECYCLED CONTENT: MINIMUM PERCENT RECYCLED GLASS CONTENT, CLASSIFIED AS POST-INDUSTRIAL AS SHOWN ON DRAWINGS.
2.3 ACCESSORIES
A. GASKETS:
1. SOFT COMPRESSION GASKETS: ASTM C584, NEOPRENE OR EPDM, OR ASTM C1115, SILICONE; 80 TO 90 SHORE A DUREMETER HARDNESS.
2. SPACERS: ASTM C864, NEOPRENE OR EPDM, OR ASTM C1115, SILICONE; 50 TO 60 SHORE A DUREMETER HARDNESS.
C. GLAZING GASKETS:
1. SOFT COMPRESSION GASKETS: ASTM C584, NEOPRENE OR EPDM, OR ASTM C1115, SILICONE OR THERMOPLASTIC POLYOLEFIN RUBBER, MOLDED OR EXTRUDED SHAPE TO FIT GLAZING CHANNEL RETAINING SLOT; BLACK COLOR.
2. SOFT COMPRESSION GASKETS: ASTM C509, TYPE II, BLACK, MOLDED OR EXTRUDED, NEOPRENE, EPDM, SILICONE OR THERMOPLASTIC POLYOLEFIN RUBBER, OF PROFILE AND HARDNESS REQUIRED TO MAINTAIN WATER TIGHT SEAL; BLACK COLOR.
2.4 FABRICATION
A. TEMPERED GLASS:
1. COMPLY WITH ASTM C1048.
2. PROCESS IN HORIZONTAL POSITION SO THAT INHERENT ROLLER DISTORTION WILL RUN PARALLEL TO BUILDING FLOOR LINES AFTER INSTALLATION.
B. SEALED INSULATING GLASS:
1. COMPLY WITH ASTM E2190.
2. FABRICATE SPACER BAR FRAME OF TUBULAR ALUMINUM FILLED WITH DESICCANT.
3. BOND SPACER BAR FRAME TO GLASS PANE WITH TWIN PRIMARY SEALS.
4. FILL SPACE OUTSIDE FRAME TO GLASS EDGE WITH ELASTOMERIC SEALANT.
C. LAMINATED GLASS:
1. COMPLY WITH ASTM C1172 AND ANSI Z97.1
2. LAMINATE GLASS WITH LAMINATING FILM BY MANUFACTURER'S STANDARD HEAT AND PRESSURE PROCESS.
3. CUT GLASS TO REQUIRED SIZE AT FACTORY.
4. DISCARD GLASS WITH VOIDS, DELAMINATION, OR ENTRAPPED DIRT OR FOREIGN MATTER.
D. LOW-E COATED GLASS: APPLY LOW-EMISSIVITY COATING TO SCHEDULED GLASS SURFACE.

- PART 3 EXECUTION
3.1 PREPARATION
A. CLEAN GLAZING RABBETS. REMOVE LOOSE AND FOREIGN MATTER.
B. REMOVE PROTECTIVE COATINGS ON METAL SURFACES.
C. CLEAN GLASS JUST PRIOR TO INSTALLATION.
3.2 INSTALLATION - GENERAL
A. INSTALL GLASS IN ACCORDANCE WITH GLASS MANUFACTURER'S INSTRUCTIONS.
B. MAINTAIN MANUFACTURER'S RECOMMENDED EDGE AND FACE CLEARANCES BETWEEN GLASS AND FRAME MEMBERS.
3.3 INSTALLATION - GASKET GLAZING METHOD
A. FABRICATE GASKETS TO FIT OPENINGS, ALLOW FOR STRETCHING OF GASKETS DURING INSTALLATION.
B. SET SOFT COMPRESSION GASKET AGAINST FIXED STOP OR FRAME WITH BONDED MITER CUT JOINTS AT CORNERS.
C. SET GLASS CENTERED IN OPENINGS ON SETTING BLOCKS.
D. INSTALL REMOVABLE STOP CUPS AND INSERT DENSE COMPRESSION GASKETS AT CORNERS, WORKING TOWARD CENTERS OF GLASS, COMPRESSION GLASS AGAINST SOFT COMPRESSION GASKETS TO PRODUCE WEATHER TIGHT SEAL.
E. SEAL JOINTS IN GASKETS.
F. ALLOW GASKETS TO PROTRUDE PAST FACE OF GLAZING STOPS.
3.4 PROTECTION
A. AFTER INSTALLATION, MARK GLASS WITH AN 'X' USING REMOVABLE PLASTIC TAPE.

- 3.5 SCHEDULE
A. ALL SALES AREA PRIMARY GLASS - 1 IN. INSULATING GLASS, 1/2 IN. AIR SPACE WITH 1/4 IN. CLEAR POLISHED PLATE FOR OUTDOOR AND INDOOR LIGHTS.
B. ALL DRIVE-THRU GLAZING - 1/2 IN. LOW-E GLASS, 1/2 IN. AIR SPACE WITH 1/4 IN. CLEAR FLOAT GLASS FOR OUTDOOR LIGHT.
C. ENTRANCES DOORS - 1 IN. INSULATED AND TEMPERED GLASS.
D. PROVIDE TEMPERED OR SAFETY GLASS FOR INDOOR AND OUTDOOR GLASS AREAS WHERE REQUIRED BY BUILDING CODES.
E. INSULATING GLASS UNITS SHALL PROVIDE A MIN. U-VALUE OF .49 WINTER AND .56 SUMMER AND SHALL COMPLY WITH ALL REQUIREMENTS OF THE LOCAL GOVERNING ENERGY CODE.

- COMPLIANCE WITH REFERENCE STANDARDS.
A. ALL PROTECTIVE CONTAINERS FROM FREEZING AND OVERHEATING ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
1.4 PROJECT CONDITIONS
A. ENVIRONMENTAL REQUIREMENTS: MAINTAIN MINIMUM AMBIENT TEMPERATURE OF 50 DEGREES F DURING AND AFTER INSTALLATION.
1.5 MAINTENANCE
A. EXTRA MATERIALS: 2 PERCENT OF EACH TILE.
PART 2 PRODUCTS
2.1 MANUFACTURERS
A. ACCEPTABLE MANUFACTURERS - TILE:
1. DAL-TILE CORP. (WWW.DAL-TILEPRODUCTS.COM)
2. CREATIVE MATERIALS CORP. (HTTPS://WWW.CREATIVEMATERIALSCORP.COM)
B. ACCEPTABLE MANUFACTURERS - SETTING AND GROUTING MATERIALS:
1. MAPEI (HTTP://WWW.MAPEI.COM/US-EN-TILE-&STONE-INSTALLATION-STEMS-CEMENT-GROUTS/KERACOLOR.S)
C. SUBSTITUTIONS: NOT PERMITTED.
2.2 MATERIALS
A. TILE:
1. SIZE: AS INDICATED ON DRAWINGS.
2. COLOR: AS INDICATED ON DRAWINGS.
3. TRIM UNITS: BEADS, COVES, AND TULLINOSE. COLOR TO MATCH TILE.
2.3 ACCESSORIES
A. LATEX-PORTLAND CEMENT MORTAR: ANSI A118.4, POLYMER MODIFIED DRY SET TYPE.
B. DRY SET PORTLAND CEMENT MORTAR: ANSI A118.1, POLYMER MODIFIED DRY SET TYPE.
C. EPOXY ADHESIVE:
1. ANSI A118.4, TYP. SET BONDING.
2. MAXIMUM VOLATILE ORGANIC COMPOUND (VOC) CONTENT: 65 GRAMS PER LITER.
D. PORTLAND CEMENT MORTAR: ANSI A118.4, POLYMER MODIFIED DRY SET TYPE.
E. SAND: ASTM C114, CLEAN, FREE OF ORGANIC MATTER.
F. WATER: CLEAN, POTABLE.
G. JOINT TAPES:
1. ANSI A118.4, TYP. JOINT TYPE.
2. COLOR: AS INDICATED ON DRAWINGS.
I. JOINT SEALERS: SPECIFIED IN SECTION 07 9200.
J. JOINT TAPE: WATERPROOF, PERFORATED BEDDING TAPE.

- PART 1 GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. GYPSUM BOARD.
2. CEMENTITIOUS PANELS.
3. TAPING AND BEDDING OF GYPSUM BOARD.
1.3 SUBMITTALS
A. SUSTAINABLE DESIGN SUBMITTALS:
4. RECYCLED CONTENT.
5. REGIONAL MATERIALS.
6. LOW-EMITTING MATERIALS.
1.4 PROJECT CONDITIONS
A. DO NOT INSTALL GYPSUM BOARD UNTIL BUILDING IS SUBSTANTIALLY WEATHER TIGHT.
B. MAINTAIN TEMPERATURE IN SPACES IN WHICH WORK IS BEING PERFORMED ABOVE 50 DEGREES F DURING AND AFTER INSTALLATION.

- PART 2 PRODUCTS
2.1 MANUFACTURERS
A. ACCEPTABLE MANUFACTURERS - GYPSUM PANELS:
1. CERTAINTED GYPSUM, INC. (WWW.CERTAINTED.COM)
2. GP GYPSUM CORPORATION (WWW.GP.COM)
3. NATIONAL GYPSUM CO. (WWW.NATIONALGYPSUM.COM)
4. TEMPLE-IN-LAND (WWW.TEMPLEINLAND.COM)
5. USG CORPORATION (WWW.USG.COM)
B. ACCEPTABLE MANUFACTURERS - CEMENTITIOUS PANELS:
1. USG CORPORATION (WWW.USG.COM)
2.2 MATERIALS - GYPSUM PANELS
A. REGULAR GYPSUM BOARD: ASTM C1396, 48 INCHES WIDE X THICKNESS INDICATED, MAXIMUM PRACTICAL LENGTH, TAPERED EDGE.
B. FIRE RESISTANT GYPSUM BOARD: ASTM C1396, TYPE X, 48 INCHES WIDE X THICKNESS INDICATED, MAXIMUM PRACTICAL LENGTH, TAPERED EDGE. APPLY TO FIRE RATED ASSEMBLIES.
C. WATER RESISTANT GYPSUM BOARD: ASTM C1396, 48 INCHES WIDE X THICKNESS INDICATED, MAXIMUM PRACTICAL LENGTH, TAPERED EDGE. APPLY TO WET LOCATIONS SPECIFIED ON DRAWINGS.
D. FIRE RESISTANT, WATER RESISTANT GYPSUM BOARD: ASTM C1396, TYPE X, 48 INCHES WIDE X THICKNESS INDICATED, MAXIMUM PRACTICAL LENGTH. AFTER SET, APPLY TO WALLS TO RECEIVE TILE, SANITARY WALL PANELS AND WALLS AT LOCATIONS SPECIFIED ON DRAWINGS.
E. RECYCLED CONTENT: GYPSUM WALLBOARDS SHALL CONTAIN RECYCLED CONTENT MATERIALS AS FOLLOWS: REFR. FACINGS: A MINIMUM OF 10% POST-INDUSTRIAL RECYCLED PAPER CONTENT. GYPSUM CORES, WHERE FEASIBLE, A MINIMUM OF 10% POST-INDUSTRIAL RECYCLED GYPSUM CONTENT. THE PERCENTAGE OF RECYCLED CONTENT IS BASED ON THE WEIGHT OF THE COMPONENT MATERIALS.
2.3 MATERIALS - CEMENTITIOUS PANELS:
A. CEMENTITIOUS PANELS: ANSI A118.9, HIGH DENSITY, CEMENTITIOUS WITH GLASS FIBER REINFORCEMENT. MINIMUM 1/2" THICK X 48 INCHES WIDE, MAXIMUM PRACTICAL LENGTH, ENDS AND EDGES SQUARE. APPLY TO WALLS IN LOCATIONS AS INDICATED ON DRAWINGS.

- PART 3 EXECUTION
3.1 PREPARATION
A. CLEAN SURFACES TO REMOVE LOOSE AND FOREIGN MATTER THAT COULD IMPAIR ADHESION.
B. REMOVE RIDGES AND PROJECTIONS. FILL VOIDS AND DEPRESSIONS WITH PATCHING COMPOUND COMPATIBLE WITH SETTING MATERIALS.
C. ALLOWABLE SUBSTRATE TOLERANCES:
1. THIN SET METHOD:
a. MAXIMUM VARIATION IN SUBSTRATE SURFACE: 1/8 INCH IN 8 FEET.
b. MAXIMUM HEIGHT OF ABRUPT IRREGULARITIES: 1/32 INCH.
2. THICK SET METHOD: MAXIMUM 1/4 INCH IN 10 FEET VARIATION IN SUBSTRATE SURFACE.
D. TEST CONCRETE SUBSTRATE TO ASTM D4263. DO NOT INSTALL TILE UNTIL SURFACES ARE SUFFICIENTLY DRY.
3.2 INSTALLATION
A. INSTALL CRACK SUPPRESSION MEMBRANE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. METHODS:
1. WALLS: ANSI A108.8, THIN SET WITH EPOXY ADHESIVE.
2. FLOORS: ANSI A108.8, THIN SET WITH LATEX-PORTLAND CEMENT MORTAR.
C. MINIMIZE PIECES LESS THAN ONE HALF SIZE. LOCATE CUTS TO BE INCONSPICUOUS.
D. LAY TILE TO PATTERN SHOWN ON DRAWINGS. DO NOT INTERRUPT TILE PATTERN THROUGH OPENINGS.
E. JOINT WIDTHS:
1. CERAMIC TILE: 1/8 INCH, PLUS OR MINUS 1/16 INCH.
2. PORCELAIN AND QUARRY TILE: 1/4 INCH, PLUS OR MINUS 1/8 INCH.
F. MAKE JOINTS WATER TIGHT, WITHOUT VOIDS, CRACKS, EXCESS MORTAR, OR EXCESS GROUT. ALIGN JOINTS IN WALL AND FLOOR OF SAME-SIZED TILE.
G. FIT TILE AROUND PROJECTIONS AND AT PERIMETER. SMOOTH AND CLEAN CUT EDGES. ENSURE THAT TRIM WILL COMPLETELY COVER CUT EDGES.
H. INSTALL TRIM:
1. INSIDE CORNERS: COVE UNITS.
2. OUTSIDE CORNERS: BEAD UNITS.
3. BASE: BASE UNITS.
4. ACCURATELY TILE ENDS: BULLNOSE UNITS.
I. ALLOW TILE TO SET FOR A MINIMUM OF 48 HOURS BEFORE GROUTING.
J. GROUT TILE JOINTS IN ACCORDANCE WITH ANSI A108.10 WITHOUT EXCESS GROUT.
K. CONTROL JOINTS:
1. PROVIDE CONTROL JOINTS AT:
a. CHANGES IN BACKUP MATERIAL.
b. CHANGES IN PLANE.
c. OVER JOINTS IN SUBSTRATE.
d. MAXIMUM 24 FEET ON CENTER AT INTERIOR LOCATIONS EXCEPT MAXIMUM 8 FEET AT EXTERIOR LOCATIONS EXPOSED TO DIRECT SUNLIGHT.
2. FORM JOINTS PER TCMA METHOD EJ-171.
3. INSTALL JOINT BACKING AND JOINT SEALER AS SPECIFIED IN SECTION 07 9200.
3.3 ADJUSTING
A. REMOVE AND REPLACE PIECES THAT HAVE BEEN DAMAGED DURING INSTALLATION.
3.4 PROTECTION
A. PROVIDE PROTECTION FOR COMPLETED WORK USING NON-STAINING SHEET COVERINGS.
B. PROHIBIT TRAFFIC ON TILE FLOORS FOR MINIMUM 3 DAYS AFTER INSTALLATION.

- PART 1 GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. SUSPENDED METAL CEILING GRID SYSTEM.
2. ACoustICAL PANELS.
1.2 SUBMITTALS
A. SUSTAINABLE DESIGN SUBMITTALS:
1. RECYCLED CONTENT.
2. REGIONAL MATERIALS.
1.3 PROJECT CONDITIONS
A. ENVIRONMENTAL REQUIREMENTS: INSTALL IN APPROXIMATELY SAME CONDITIONS OF TEMPERATURE AND HUMIDITY AS WILL PREVAIL AFTER INSTALLATION.
1.4 MAINTENANCE
A. EXTRA MATERIALS: ONE UNOPENED CARTON OF EACH ACOUSTICAL PANEL.
PART 2 PRODUCTS
2.1 MANUFACTURERS
A. ACCEPTABLE MANUFACTURERS - SUSPENSION SYSTEM:
1. ARMSTRONG WORLD INDUSTRIES. (WWW.ARMSTRONG.COM)
B. ACCEPTABLE MANUFACTURERS - ACOUSTICAL UNITS:
1. ARMSTRONG WORLD INDUSTRIES. (WWW.ARMSTRONG.COM)
C. SUBSTITUTIONS: NOT PERMITTED.

- SECTION 09 5100 ACOUSTICAL CEILINGS
PART 1 GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. CERAMIC, PORCELAIN AND QUARRY TILE FLOOR AND WALL FINISHES.
1.2 QUALITY ASSURANCE
A. INSTALLER QUALIFICATIONS: MINIMUM 10 YEARS' EXPERIENCE IN WORK OF THIS SECTION.
B. TILE AND TRIM UNITS: MEET ANSI A137.1, STANDARD GRADE.
C. STATIC COEFFICIENT OF FRICTION FOR FLOOR TILE: MINIMUM 0.60, TESTED TO ASTM C1028 IN DRY CONDITION.
1.3 DELIVERY, STORAGE AND HANDLING
A. DELIVER MORTAR, ADHESIVE, AND GROUT CONTAINERS BEARING HALLMARK CERTIFYING

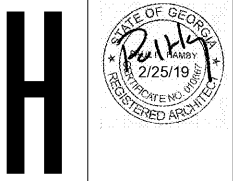
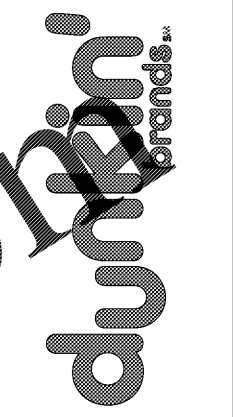
- SECTION 09 3000 TILING
PART 1 GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. CERAMIC, PORCELAIN AND QUARRY TILE FLOOR AND WALL FINISHES.
1.2 QUALITY ASSURANCE
A. INSTALLER QUALIFICATIONS: MINIMUM 10 YEARS' EXPERIENCE IN WORK OF THIS SECTION.
B. TILE AND TRIM UNITS: MEET ANSI A137.1, STANDARD GRADE.
C. STATIC COEFFICIENT OF FRICTION FOR FLOOR TILE: MINIMUM 0.60, TESTED TO ASTM C1028 IN DRY CONDITION.
1.3 DELIVERY, STORAGE AND HANDLING
A. DELIVER MORTAR, ADHESIVE, AND GROUT CONTAINERS BEARING HALLMARK CERTIFYING

- SECTION 09 2900 GYPSUM BOARD
PART 1 GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. GYPSUM BOARD.
2. CEMENTITIOUS PANELS.
3. TAPING AND BEDDING OF GYPSUM BOARD.
1.3 SUBMITTALS
A. SUSTAINABLE DESIGN SUBMITTALS:
4. RECYCLED CONTENT.
5. REGIONAL MATERIALS.
6. LOW-EMITTING MATERIALS.
1.4 PROJECT CONDITIONS
A. DO NOT INSTALL GYPSUM BOARD UNTIL BUILDING IS SUBSTANTIALLY WEATHER TIGHT.
B. MAINTAIN TEMPERATURE IN SPACES IN WHICH WORK IS BEING PERFORMED ABOVE 50 DEGREES F DURING AND AFTER INSTALLATION.

- SECTION 09 3000 TILING
PART 1 GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. CERAMIC, PORCELAIN AND QUARRY TILE FLOOR AND WALL FINISHES.
1.2 QUALITY ASSURANCE
A. INSTALLER QUALIFICATIONS: MINIMUM 10 YEARS' EXPERIENCE IN WORK OF THIS SECTION.
B. TILE AND TRIM UNITS: MEET ANSI A137.1, STANDARD GRADE.
C. STATIC COEFFICIENT OF FRICTION FOR FLOOR TILE: MINIMUM 0.60, TESTED TO ASTM C1028 IN DRY CONDITION.
1.3 DELIVERY, STORAGE AND HANDLING
A. DELIVER MORTAR, ADHESIVE, AND GROUT CONTAINERS BEARING HALLMARK CERTIFYING

- SECTION 09 5100 ACOUSTICAL CEILINGS
PART 1 GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. SUSPENDED METAL CEILING GRID SYSTEM.
2. ACoustICAL PANELS.
1.2 SUBMITTALS
A. SUSTAINABLE DESIGN SUBMITTALS:
1. RECYCLED CONTENT.
2. REGIONAL MATERIALS.
1.3 PROJECT CONDITIONS
A. ENVIRONMENTAL REQUIREMENTS: INSTALL IN APPROXIMATELY SAME CONDITIONS OF TEMPERATURE AND HUMIDITY AS WILL PREVAIL AFTER INSTALLATION.
1.4 MAINTENANCE
A. EXTRA MATERIALS: ONE UNOPENED CARTON OF EACH ACOUSTICAL PANEL.
PART 2 PRODUCTS
2.1 MANUFACTURERS
A. ACCEPTABLE MANUFACTURERS - SUSPENSION SYSTEM:
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B. ACCEPTABLE MANUFACTURERS - ACOUSTICAL UNITS:
1. ARMSTRONG WORLD INDUSTRIES. (WWW.ARMSTRONG.COM)
C. SUBSTITUTIONS: NOT PERMITTED.

- SECTION 09 3000 TILING
PART 1 GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. CERAMIC, PORCELAIN AND QUARRY TILE FLOOR AND WALL FINISHES.
1.2 QUALITY ASSURANCE
A. INSTALLER QUALIFICATIONS: MINIMUM 10 YEARS' EXPERIENCE IN WORK OF THIS SECTION.
B. TILE AND TRIM UNITS: MEET ANSI A137.1, STANDARD GRADE.
C. STATIC COEFFICIENT OF FRICTION FOR FLOOR TILE: MINIMUM 0.60, TESTED TO ASTM C1028 IN DRY CONDITION.
1.3 DELIVERY, STORAGE AND HANDLING
A. DELIVER MORTAR, ADHESIVE, AND GROUT CONTAINERS BEARING HALLMARK CERTIFYING



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Table with columns: NO, DESCRIPTION, DATE, SCALE, DRAWN, PPH, CKD, APPD. Includes revision history for SET REVISIONS and SHEET REVISIONS.

DUNKIN - 1270 SPRING STREET, SUITE 7
ATLANTA GA 30309

CONSTRUCTION SPECIFICATIONS (CONT.)
ARCHITECT PROJECT #18-028

GN-1.4