

OUTLINE SPECIFICATIONS

8 OPENINGS (CONTINUED)

8.04 GLASS

GENERAL: COMPLY WITH REQUIREMENTS OF ASTM E1300, GLASS PRODUCT MANUFACTURERS, GANA GLAZING MANUAL, AND GANA LAMINATED GLAZING REFERENCE MANUAL. FOR SAFETY GLAZING COMPLY WITH CPSC 16 CFR PART 1201 AND ANSI Z97.1

PERFORMANCE REQUIREMENTS: PROVIDE GLASS LITES IN MINIMUM THICKNESS TO COMPLY WITH ASTM E1300, BUT NOT LESS THAN THE THICKNESS AND STRENGTH INDICATED OR REQUIRED TO WITHSTAND DESIGN WIND LOADS INDICATED, THERMAL EXPANSION/CONTRACTION FROM AMBIENT AND SURFACE TEMPERATURE CHANGES, AND IMPACT LOADS.

SUBMITTALS: SUBMIT PRODUCT DATA FOR REVIEW.

WARRANTIES: MANUFACTURER'S STANDARD WARRANTY TO REPLACE THE FOLLOWING PRODUCTS DURING THE PERIOD INDICATED DUE TO DETEIORATION, INCLUDING PEELING, DISCOLORATION, VISION OBSTRUCTION, HERMATIC SEAL FAILURE, AND DELAMINATION.

COATED GLASS PRODUCTS: 10 YEAR WARRANTY.

INSULATING GLASS: 10 YEAR WARRANTY.

ANNEALED FLOAT GLASS: ASTM C1036, TYPE 1, CLASS 1 (CLEAR) OR CLASS 2 (TINTED) AS INDICATED, QUALITY Q3. PROVIDE MINIMUM 6.0 mm THICKNESS UNLESS OTHERWISE INDICATED OR REQUIRED.

HEAT TREATED FLOAT GLASS: ASTM C1048, TYPE 1, CLASS 1 (CLEAR) OR CLASS 2 (TINTED) AS INDICATED, QUALITY Q3, AND KIND AS INDICATED OR REQUIRED. FABRICATE BY HORIZONTAL ROLLER-HEARTH PROCESS, WITH WAVE DISTORTION PARALLEL TO BOTTOM EDGE AS INSTALLED. PROVIDE MINIMUM 6.0 mm THICKNESS UNLESS OTHERWISE INDICATED OR REQUIRED.

KIND HS: PROVIDE HEAT STRENGTHENED FLOAT GLASS WHERE REQUIRED TO RESIST SHADING INDUCED THERMAL STRESSES AND IMPOSED LOADS.

KIND FT: PROVIDE FULLY TREATED FLOAT GLASS WHERE REQUIRED TO RESIST SHADING INDUCED THERMAL STRESSES AND IMPOSED LOADS, OR WHERE SAFETY GLASS IS INDICATED OR REQUIRED (COMPLY WITH CPSC 16 CFR PART 1201 AND ANSI Z97.1).

LOW-E COATED GLASS: ASTM C1376, FLOAT GLASS WITH METALLIC-OXIDE OR NITRIDE COATING APPLIED BY VACUUM DEPOSITION PROCESS AFTER MANUFACTURE, KIND AS INDICATED OR REQUIRED.

FABRICATION: FABRICATE GLAZING UNITS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND REFERENCED GLAZING PUBLICATIONS, TO COMPLY WITH SYSTEM PERFORMANCE REQUIREMENTS, PROVIDE SEALANTS, GLAZING TAPES, GASKETS, AND ACCESSORIES THAT HAVE BEEN TESTED FOR COMPATIBILITY WITH OTHER GLAZING MATERIALS.

INSULATING GLASS UNITS: ASTM E2190, PROVIDE ALUMINUM SPACERS, DUAL EDGE SEAL WITH POLYISOBUTYLENE PRIMARY AND SILICONE SECONDARY, AND DESCICANT.

1" CLEAR LOW-E INSULATING GLASS UNITS:

OUTBOARD LITE: 6mm CLEAR GLASS, KIND AS INDICATED OR REQUIRED, WITH LOW-E COATING ON #2 SURFACE; "SOLO ARBAN 90" BY VITRO ARCHITECTURAL GLASS, OR APPROVED SUBSTITUTE.

INBOARD LITE: 6mm CLEAR GLASS, KIND AS INDICATED OR REQUIRED.

UNIT PERFORMANCE: VISIBLE LIGHT TRANSMITTANCE = 51%, SIGC = 0.23, AND WINTER U-VALUE = 0.29.

INSTALLATION: COMPLY WITH THE MANUFACTURER'S INSTRUCTIONS. INSTALL GLASS LITES IN SERIES WITH UNIFORM PATTERN, DRAW, AND BOW.

9 FINISHES

9.01 GYPSUM BOARD ASSEMBLIES

GENERAL: PROTECT PRODUCTS FROM EXPOSURE TO WEATHER AND CONTACT WITH WET SURFACES. DO NOT BEGIN BOARD INSTALLATION UNTIL BUILDING ENVELOPE IS WATER TIGHT. DO NOT BEGIN TAPING AND FINISHING UNTIL TEMPERATURE HAS BEEN STABILIZED BETWEEN 50 AND 95 DEGREES F FOR MINIMUM 48 HOURS.

SUBMITTALS: SUBMIT PRODUCT DATA FOR REVIEW.

STEEL FRAMING: ASTM C645, GALVANIZED STEEL STUDS, RUNNERS, TRACK, AND FURRING MEMBERS. SIZE AND SPACING AS INDICATED, MINIMUM METAL THICKNESS AS REQUIRED BY STEEL FRAMING MANUFACTURER'S PUBLISHED LIMITING HEIGHT TABLES.

SUSPENSION SYSTEM: ASTM C635, FIRE RATED HEAVY DUTY CLASSIFICATION. GALVANIZED STEEL CONSTRUCTION WITH KNURLED FACES, FLUSH FIT MAIN TEES AND CROSS TEES. PROVIDE MANUFACTURER'S RECOMMENDED ACCESSORIES AND TRIM. SIZE ATTACHMENT DEVICES FOR 5 TIMES DESIGN LOAD INDICATED IN ASTM C635. PROVIDE MINIMUM 12 GAUGE WIRE FOR HANGERS AND TIES. ASTM A661 CLASS 1 ZINC COATING, SOFT TEMPER, PRE-STRETCHED, WITH YIELD STRESS LOAD AT LEAST THREE TIMES DESIGN LOAD.

GYPSUM BOARD: ASTM C1396, MAXIMUM FLAME SPREAD INDEX OF 25 AND MAXIMUM SMOKE DEVELOPED OF 450 (ASTM E84). THICKNESS INDICATED, TAPERED EDGES, REGULAR TYPE FOR WALLS AND SAG-RESISTANT TYPE FOR CEILINGS. PROVIDE TYPE X OR TYPE C WHERE INDICATED.

PROVIDE GYPSUM BOARD WITH MOISTURE AND MOLD RESISTANT CORE AND PAPER FACES: "SHEETROCK" MANUFACTURED BY UNITED STATES GYPSUM COMPANY, "TONGUELOCK, MOLD-GUARD" BY GEORGIA PACIFIC GYPSUM LLC, OR APPROVED SUBSTITUTE.

SCREWS: ASTM C1513, SELF-DRILLING, SELF-TAPPING SCREWS AT STEEL FRAMING. ASTM C954 OR ASTM C1002 TYPE 8 OR 212; HOOK OR PANCAKE HEAD AT GYPSUM BOARD TO STEEL FRAMING; PROVIDE CORROSION RESISTANT SCREWS AT COATED GLASS MAT GYPSUM BACKER BOARD AND CEMENT BACKER BOARD.

JOINT COMPOUND AND TAPE: ASTM C475, READY-MIXED ALL-PURPOSE DRYING-TYPE VINYL BASED JOINT COMPOUND, AND 2" PAPER REINFORCING TAPE.

PROVIDE MANUFACTURER'S RECOMMENDED MOLD AND MILDEW RESISTANT JOINT COMPOUND.

CORNER BEAD AND EDGE TRIM: ASTM C1047, ZINC ALLOY FORMED BEAD, L-TRIM, OR U-TRIM WITH FLANGES FOR CONCEALMENT IN JOINT COMPOUND.

ACOUSTICAL SEALANT: ASTM C834, NON-SAG, PAINTABLE, NON-STAINING LATEX SEALANT. TESTED TO REDUCE AIRBORNE SOUND TRANSMISSION (ASTM E90), AND COMPLYING WITH ASTM E814.

INSTALLATION: COMPLY WITH ASTM C754 FOR STEEL FRAMING INSTALLATION, ASTM C636 FOR DRYWALL SUSPENSION SYSTEMS, AND ASTM C840 AND GA-216 FOR GYPSUM BOARD APPLICATION AND FINISHING. AT FIRE RATED ASSEMBLIES, PROVIDE MATERIALS AND INSTALLATION IDENTICAL TO THOSE LISTED BY UL. ISOLATE STEEL FRAMING FROM BUILDING STRUCTURE, AND PROVIDE SUPPLEMENTARY FRAMING AND BLOCKING TO SUPPORT ATTACHED WORK. APPLY GYPSUM BOARD TO MINIMIZE BUTT JOINTS. WITH END JOINTS STAGGERED 3 MINIMUM 24". AND SCREW ATTACH TO SUPPORTS. PROVIDE CORNER BEAD AT ALL EXTERNAL CORNERS, AND EDGE TRIM WHERE BOARDS ABUT OTHER CONSTRUCTION. EMBED JOINT TAPE AND PAPER FACED METAL TRIM IN JOINT COMPOUND, THEN APPLY 3 COATS OF JOINT COMPOUND OVER JOINTS, TRIM, FASTENERS, AND SURFACE DEFECTS, SANDING AFTER EACH COAT AND LEAVING SURFACE SMOOTH AND FREE OF VISUAL DEFECTS (GA-214 LEVEL 4), EXCEPT APPLY 1 COAT AT CONCEALED SURFACES (GA-214 LEVEL 2).

9.02 RESILIENT TILE FLOORING

GENERAL: PROVIDE RESILIENT TILE FLOORING WITH CRITICAL RADIANT TILE FLOOR OF 0.45 WATTS/SQ CM OR GREATER, CLASS 1 (ASTM E648), AND MAXIMUM SMOKE DEVELOPED OF 450 (ASTM E662), MAINTAIN TEMPERATURE AND HUMIDITY RANGE RECOMMENDED BY MANUFACTURER FOR AT LEAST 48 HOURS BEFORE, DURING AND AFTER INSTALLATION.

SUBMITTALS: SUBMIT PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR REVIEW.

RUBBER TILE: ASTM F1344 CLASS 1, WET AND DRY STATIC COEFFICIENT GREATER THAN 0.60 (ASTM D2047), MANUFACTURER, PRODUCT, AND COLOR AS SCHEDULED. INSTALL WITH MANUFACTURER'S RECOMMENDED ADHESIVE. LAY TILE IN GRID PATTERN.

ACCESSORIES: PROVIDE PATCHING AND LEVELING COMPOUND AND LOW-VOC ADHESIVE AS RECOMMENDED BY RESILIENT FLOORING MANUFACTURER. PROVIDE RESILIENT EDGE TRANSITION STRIPS TAPERED TO MEET ABUTTING MATERIALS.

INSTALLATION: PREPARE SUBSTRATES AND INSTALL FLOORING IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. EXAMINE SUBSTRATES FOR DEFECTS BEFORE BEGINNING INSTALLATION. REMOVE CONCRETE PROJECTIONS AND FILL LOW SPOTS WITH PATCHING AND LEVELING COMPOUND TO PROVIDE SMOOTH SURFACE. DO NOT DELIVER FLOORING MATERIALS UNTIL TEMPERATURE AND HUMIDITY CONDITIONS HAVE BEEN STABILIZED, AND ACCLIMATE FLOORING MATERIALS IN CONDITIONED SPACE FOR MINIMUM 48 HOURS BEFORE.

INSTALLATION: CLEAN SURFACES IMMEDIATELY BEFORE INSTALLING FLOORING. LAYOUT FLOORING AS INDICATED, OR TO PROVIDE EQUAL WIDTH TILES GREATER THAN HALF-WIDTH AT OPPOSITE ENDS OF SPACES. INSTALL FLOORING BEFORE INSTALLING FLOOR SET CASEWORKS AND EQUIPMENT. EXTEND FLOORING INTO RECESSES, AND SCRIBE AND CUT TO FIT PERMANENT CONSTRUCTION WHILE LEAVING RECOMMENDED EXPANSION SPACE. INSTALL RESILIENT EDGE STRIPS AT EDGES OF FLOORING THAT WOULD OTHERWISE BE EXPOSED. CLEAN RESILIENT FLOORING AFTER INSTALLATION.

ADHESIVE INSTALLATION: REMOVE DELETERIOUS COATINGS FROM SUBSTRATE. TEST SUBSTRATE FOR DRYNESS (ASTM F1869 AND ASTM E2170), PH (ASTM F710) AND BOND - DO NOT PROCEED WITH INSTALLATION UNTIL RESULTS ARE ACCEPTABLE. ADHERE FLOORING TO SUBSTRATE.

9 FINISHES (CONTINUED)

9.03 PAINTING

GENERAL: DELIVER ALL PAINTING MATERIALS IN SEALED, ORIGINAL LABELED CONTAINERS BEARING MANUFACTURER'S NAME, PRODUCT DESCRIPTION, COLOR IDENTIFICATION, AND APPLICATION INSTRUCTIONS. PROTECT PRODUCTS FROM FABRICATOR APPLY PAINT ONLY WHEN THE RELATIVE HUMIDITY IS BELOW 85%, AND THE AMBIENT AIR AND SUBSTRATE TEMPERATURES WILL BE BETWEEN 50 AND 95 DEGREES F DURING AND FOR 24 HOURS FOLLOWING APPLICATION.

SUBMITTALS: SUBMIT PRODUCT DATA FOR REVIEW.

PAINT: PROVIDE PAINT PRODUCTS INDICATED IN COLORS AS SCHEDULED. SHERWIN-WILLIAMS COMPANY UNLESS OTHERWISE INDICATED. OR APPROVED SUBSTITUTE. PROVIDE PRIMERS AND UNDERCOATS PRODUCED BY THE SAME MANUFACTURER AS FINISH COATS, AND THAT ARE COMPATIBLE WITH ONE ANOTHER AND THE SUBSTRATES INDICATED.

INSTALLATION: PREPARE SURFACES AND APPLY PAINT IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. APPLY PAINT ONLY WHEN AMBIENT TEMPERATURE AND RELATIVE HUMIDITY ARE WITHIN MANUFACTURER'S RECOMMENDED RANGE. CLEAN SUBSTRATES OF SUBSTANCES THAT COULD IMPAIR BOND OF PAINTS, INCLUDING DUST, DIET, OIL, GREASE, AND INCOMPATIBLE PAINTS. UNIFORMELY APPLY COATINGS TO ACHIEVE MANUFACTURER'S RECOMMENDED DRY FILM THICKNESS, WITHOUT RUNS, DRIPS, SAGS, OR BRUSH MARKS. APPLY ADDITIONAL COATS WHEN UNDERCOATS, STAINS, OR OTHER CONDITIONS SHOW THROUGH FINAL COAT, UNTIL PAINT FILM IS OF UNIFORM FINISH, COLOR, AND APPEARANCE. UNLESS OTHERWISE INDICATED, PAINT AND FINISH ALL EXPOSED SURFACES THAT ARE NOT PRE-FINISHED. DO NOT PAINT CODE REQUIRED LABELS OR EQUIPMENT PLATES. PROVIDE THE FOLLOWING PAINT SYSTEMS FOR THE SUBSTRATES AND GLOSS INDICATED:

EXTERIOR: CONCRETE WALLS - PAINTED.

1ST COAT: LOKON CONCRETE & MASONRY PRIMER SEALER (A24W8300)

2ND COAT: A-100 EXTERIOR LATEX SATIN (A82 SERIES)

3RD COAT: A-100 EXTERIOR LATEX SATIN (A82 SERIES)

EXTERIOR FERROUS, ALUMINUM AND GALVANIZED METAL - SEMI-GLOSS:

1ST COAT (OMIT IF PRE-PRIMED): PRO-CRYL UNIVERSAL PRIMER (B66-310 SERIES)

2ND COAT: SOLO ACRYLIC SEMI-GLOSS (A76 SERIES)

3RD COAT: SOLO ACRYLIC SEMI-GLOSS (A76 SERIES)

INTERIOR MASONRY - EGG-SHELL:

1ST COAT: LOKON BLOCK SURFACER (A24W200)

2ND COAT: PROMAR 200 ZERO VOC LATEX EG-SHEL (B20-2600 SERIES)

3RD COAT: PROMAR 200 ZERO VOC LATEX EG-SHEL (B20-2600 SERIES)

EXTERIOR FERROUS, ALUMINUM AND GALVANIZED METAL - SEMI-GLOSS:

1ST COAT (OMIT IF PRE-PRIMED): PRO-CRYL UNIVERSAL PRIMER (B66-310 SERIES)

2ND COAT: PROMAR 200 ZERO VOC LATEX SEMI-GLOSS (B31-2600 SERIES)

3RD COAT: PROMAR 200 ZERO VOC LATEX SEMI-GLOSS (B31-2600 SERIES)

INTERIOR GYPSUM BOARD - EGG-SHELL:

1ST COAT: PROMAR 200 ZERO VOC LATEX PRIMER (B28W2600)

2ND COAT: PROMAR 200 ZERO VOC LATEX EG-SHEL (B20-2600 SERIES)

3RD COAT: PROMAR 200 ZERO VOC LATEX EG-SHEL (B20-2600 SERIES)

INTERIOR CONCRETE FLOORS - CLEAR EPOXY COATING:

1ST COAT: ARMORSEAL 33 EPOXY PRIMER SEALER (H88CQ33)

2ND COAT: ARMORSEAL 1000 HS EPOXY (B67-2000)

3RD COAT (WHERE SCHEDULED): ARMORSEAL 1000 HS EPOXY (B67-2000)

10 SPECIALTIES

10.01 EMERGENCY ENTRANCE SYSTEMS

KEY LOCK BOX: UL LISTED KEY LOCK BOX, 1/4" STEEL WELDED HOUSING, 1/2" STEEL DOOR WITH GASKET AND STAINLESS STEEL HINGE, INTERIOR GASKET, BIASED CUT KEY LOCK, WITH DUST COVER. INTERFERE FOR BUILDING ALARM SYSTEM, 5"X4"X3" DEEP, "KNOXBOX 2300" BY KNOX COMPANY, OR APPROVED SUBSTITUTE.

MOUNTING: RECESSED, WITH STEEL SHELL AND 7/8" FLANGE.

COLOR: DARK BRONZE.

INSTALLATION: INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. SET UNITS PLUMB, LEVEL, AND SQUARE.

10.02 FIRE EXTINGUISHERS AND ACCESSORIES

GENERAL: PROVIDE FIRE EXTINGUISHER AT EACH LOCATION INDICATED, AND AT EACH FIRE EXTINGUISHER CABINET.

SUBMITTALS: SUBMIT PRODUCT DATA FOR REVIEW.

FIRE EXTINGUISHERS: NOMINAL 5 LB MULT-PURPOSE CHEMICAL FIRE EXTINGUISHER, 2A-10BC RATED, PAINTED STEEL CYLINDER, "MPS" BY LARSEN'S MANUFACTURING CO. OR APPROVED SUBSTITUTE. PROVIDE WALL BRACKET FOR FIRE EXTINGUISHERS AT LOCATIONS WITHOUT CABINETS.

INTERIOR FIRE EXTINGUISHER CABINETS: SEMI-RECESSED WITH 2-1/2" ROLLED EDGE, STEEL BOX AND DOOR, FULL CLEAR ACRYLIC DOOR, RED BAKED ENAMEL FINISH, "2409-R2" BY LARSEN'S MANUFACTURING CO. OR APPROVED SUBSTITUTE.

INSTALLATION: INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. MOUNT CABINETS WITH BOTTOM AT 27" ABOVE FINISH FLOOR. SET UNITS PLUMB, LEVEL, AND SQUARE.

10.03 CALL BOX SYSTEM

GENERAL: SUBMIT PRODUCT DATA FOR REVIEW.

SYSTEM COMPONENTS: ADA COMPLIANT EMERGENCY TWO-WAY COMMUNICATION SYSTEM TO ESTABLISH TWO WAY COMMUNICATION WITH REMOTE MONITORING LOCATION.

CALL BOXES: LINE POWERED, SURFACE MOUNTED, WITH ONE BUTTON 2 NUMBER PROGRAMMABLE CALLING, "2400-BOARDS" BY RATH AREA OF REFUGE, OR APPROVED SUBSTITUTE.

SIGNAGE: MINIMUM 8"X6" DIRECTIONS SIGN WITH LOCATION AND FLOOR DESIGNATIONS, WITH RAISED LETTERS AND BRAILLE, "7049" BY RATH AREA OF REFUGE, OR APPROVED SUBSTITUTE.

DATA CABLE: 2-HOUR RATED UNSHIELDED CIRCUIT INTEGRITY CABLE, UL 2196.

INSTALLATION: INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. SET UNITS PLUMB, LEVEL, AND SQUARE.

EXTEND DATA CABLES TO TELEPHONE BACKBOARD, FOR CONNECTION TO TELEPHONE NETWORK BY OWNER.

10.04 BOLLARD COVERS: 1-1/8" THICK POLYETHYLENE COVERS WITH DOME TOPS DESIGNED TO FIT STANDARD STEEL PIPE BOLLARDS, "BOLLARDGARD" BY INNOPLAST, OR APPROVED SUBSTITUTE. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

COLOR: SAFETY YELLOW.

10 SPECIALTIES (CONTINUED)

10.05 STORAGE UNIT SYSTEMS

GENERAL: PROVIDE STORAGE UNIT SYSTEMS BY JANUS INTERNATIONAL CORPORATION, OR APPROVED SUBSTITUTE. PROTECT ALL SHARP OR UNFINISHED EDGES WITH PROTECTIVE COVERS OR BY HEAMING, AND COVER ALL EXPOSED FASTENER TIPS WITH PLASTIC COVERS. PROVIDE METAL REINFORCEMENT OR BACKING FOR ALL SURFACE MOUNTED EQUIPMENT, INCLUDING EQUIPMENT PROVIDED BY OTHERS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

SUBMITTALS: SUBMIT SHOP DRAWINGS FOR REVIEW.

INTERIOR COILING DOORS: "MODEL 650" MANUALLY OPERATED OVERHEAD COILING DOOR, 26 GAUGE CORRUGATED CURTAIN FABRICATED FROM GALVANIZED STEEL, PAINTED FINISH IN COLOR AS SCHEDULED, EXTERIOR LIFT HANDLE(S) ON BOTTOM BAR.

LATCH: ZINC COATED STAINLESS STEEL, JANUS MINI LATCH.

COILING DOOR ELECTRIC OPERATOR: "PANTHEON" DRUM MOUNTED LOW VOLTAGE DC MOTOR OPERATOR, UL 325 COMPLIANT CONTROLLER WITH UP/DOWN/STOP OPERATION AND KEYPAD SWITCH, ELECTRONIC LIMITS, SOFT START AND SOFT STOP, AND MANUAL RELEASE FOR MANUAL OPERATION.

HALLWAY SYSTEM: PROVIDE RELATED HOT-DIP GALVANIZED FRAMING, CHANNELS, ANGLES, HARDWARE, AND FASTENERS. COVER ALL GYPSUM BOARD, FIREPROOFING, PIPES, WIRES, AND CONDUITS EXPOSED IN CORRIDORS AND LOBBIES WITH HEMMED 20 GAUGE GALVALUME STEEL COVER WITH PAINTED FINISH TO THE HEIGHT OF THE HALLWAY SYSTEM.

DOOR HERS AND HEADERS: FLUSH PANELS FABRICATED FROM MINIMUM 20 GAUGE HOT-DIP GALVANIZED STEEL, WITH PAINTED FINISH IN COLOR AS SCHEDULED.

HALLWAY PANELS: CORRUGATED PANELS FABRICATED FROM MINIMUM 26 GAUGE HOT-DIP GALVANIZED STEEL, WITH PAINTED FINISH IN COLOR AS SCHEDULED. INSTALL VERTICALLY WITH MID-SPAN BRACING.

HALLWAY BASE: 18" HIGH X 0.080" THICK ALUMINUM DIAMOND PLATE BASE (ASTM B209 3003-H22) WITH RUBBER CAP AT ALL STORAGE CORRIDOR HALLWAY PANELS.

HALLWAY CORNERS: FABRICATED FROM MINIMUM 20 GAUGE HOT-DIP GALVANIZED STEEL, WITH PAINTED FINISH TO MATCH HALLWAY PANELS. PROVIDE 4"X4" HIGH X 0.080" THICK ALUMINUM DIAMOND PLATE CORNER GUARDS (ASTM B209 3003-H22) WITH RUBBER CAP AT ALL STORAGE CORRIDOR OUTSIDE CORNERS.

LOBBY WAINSCOT: 48" HIGH X 0.080" THICK ALUMINUM DIAMOND PLATE WAINSCOT (ASTM B209 3003-H22) WITH RUBBER CAP AT ALL LOBBIES.

UNIT NUMBER PLAQUE: 4"X8" PLAQUE CONFORMING TO OWNER'S SIGNAGE STANDARDS. COORDINATE NUMBERING WITH OWNER.

UNIT PARTITION SYSTEM: CORRUGATED PANELS FABRICATED FROM MINIMUM 26 GAUGE GALVALUME STEEL SHEET. INSTALL VERTICALLY WITH MID-SPAN BRACING. PROVIDE RELATED HOT-DIP GALVANIZED FRAMING, CHANNELS, ANGLES, HARDWARE, AND FASTENERS. COVER ALL GYPSUM BOARD, FIREPROOFING, PIPES, WIRES, AND CONDUITS EXPOSED IN THE STORAGE UNITS WITH HEMMED 20 GAUGE GALVALUME STEEL COVERS TO THE HEIGHT OF THE PARTITION SYSTEM.

HORIZONTAL SECURITY MESH: 2"x2"x1/8" GAUGE GALVANIZED WELDED WIRE MESH INSTALLED OVER TOP OF ALL INTERIOR STORAGE UNITS. PROVIDE HOT-DIP GALVANIZED ANGLES AT 5' CENTERS AND AT TOP OF UNIT PARTITIONS TO SUPPORT MESH, AND FASTEN SECURELY IN PLACE.

10.07 PRE-ENGINEERED ALUMINUM CANOPY SYSTEMS

GENERAL: SEE STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT APPLY TO THIS SECTION.

SUBMITTALS: SUBMIT SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED TO PRACTICE IN THE JURISDICTION WHERE THE PROJECT IS LOCATED, SHOWING COMPLIANCE WITH THE INDICATED STRUCTURAL REQUIREMENTS WITHOUT EXCEEDING ALLOWABLE WORKING STRESS OF MATERIALS, INCLUDING ANCHORS AND CONNECTIONS, MAXIMUM DEFLECTION OF L/180. ALLOW FOR THERMAL MOVEMENT FROM 120 DEG F AMBIENT TEMPERATURE RANGE, AND 180 DEG F MATERIAL SURFACE RANGE.

PROJECT CONDITIONS: FIELD VERIFY DIMENSIONS PRIOR TO SHOP FABRICATION.

MANUFACTURER: PROVIDE PRODUCTS MANUFACTURED BY PEACHTREE PROTECTIVE COVERS, INC., OR APPROVED SUBSTITUTE.

MATERIALS:

INTERLOCKING DECKING, BEAMS AND GUTTERS: EXTRUDED ALUMINUM ALLOY 6063 TEMPER T6, COMPLYING WITH ASTM B221.

FLASHING: MINIMUM 0.040" ALUMINUM.

FASTENERS: STAINLESS STEEL WITH NEOPRENE WASHERS WHERE IN CONTACT WITH ALUMINUM. HOT-DIP GALVANIZED ANCHORS FOR ATTACHMENT TO MASONRY OR STEEL.

FABRICATION: FABRICATE TO INDICATED SIZES, DIMENSIONS AND DETAILS. ASSEMBLE WORK TRUE-TO-LINE, WITH TIGHT, CLOSE FITTING JOINTS. PROVIDE FULLY WELDED EXTRUDED ALUMINUM SYSTEM, WITH PROVISIONS FOR THERMAL EXPANSION. EASE EXPOSED EDGES AND GRIND ALL EXPOSED WELDS SMOOTH. PROVIDE COMPONENTS REQUIRED FOR PROPER ANCHORAGE. SHOP FINISH AS INDICATED.

FINISH: HIGH PERFORMANCE FLUOROPOLYMER COATING COMPLYING WITH AAMA 2604, TWO-COAT THERMOURED SYSTEM OF INHIBITIVE PRIMER AND FLUOROPOLYMER TOPCOAT CONTAINING MINIMUM 70% PVDF RESIN, MINIMUM 1.2 MIL DRY FILM THICKNESS, COLOR AS SCHEDULED.

INSTALLATION: INSTALL WORK TRUE-TO-LINE AND PLUMB, WITH SLOPE FOR POSITIVE DRAINAGE. ANCHOR FABRICATIONS SECURELY IN PLACE WITH COMPATIBLE FASTENERS. PREVENT CONTACT BETWEEN ALUMINUM AND DISSIMILAR MATERIALS. PROVIDE FLASHING AT ADJACENT CONSTRUCTION. TEST DRAINAGE SYSTEM. TOUCH-UP FINISH IMMEDIATELY AFTER ERECTION.

14 CONVEYING SYSTEMS

HYDRAULIC ELEVATORS

GENERAL: COMPLY WITH ANSI/ASME 17.1 AND ISO 9001-2000.

SUBMITTALS: SUBMIT MANUFACTURER'S SHOP DRAWINGS, OPERATION AND MAINTENANCE MANUALS, AND FINISH SAMPLES FOR REVIEW.

WARRANTY: PROVIDE MANUFACTURER'S STANDARD WARRANTY AND MAINTENANCE SERVICE INCLUDING 24 HOUR EMERGENCY CALL BACK FOR PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.

ELEVATOR: PROVIDE ELEVATORS SCHEDULED AS BASIS OF DESIGN, OR APPROVED SUBSTITUTE. PROVIDE MANUFACTURER'S STANDARD ELEVATOR COMPONENTS AND FEATURES, UNLESS OTHERWISE INDICATED.

INSTALLATION: INSTALL ELEVATORS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND ANSI/ASME 17.1. ADJUST ELEVATORS FOR PROPER OPERATION: SMOOTH ACCELERATION AND DECELERATION, AND AUTOMATIC LEVELING AT EACH FLOOR TO WITHIN 1/4" OF LANDING.

14.01

GENERAL: PROVIDE STORAGE UNIT SYSTEMS BY JANUS INTERNATIONAL CORPORATION, OR APPROVED SUBSTITUTE. PROTECT ALL SHARP OR UNFINISHED EDGES WITH PROTECTIVE COVERS OR BY HEAMING, AND COVER ALL EXPOSED FASTENER TIPS WITH PLASTIC COVERS. PROVIDE METAL REINFORCEMENT OR BACKING FOR ALL SURFACE MOUNTED EQUIPMENT, INCLUDING EQUIPMENT PROVIDED BY OTHERS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

SUBMITTALS: SUBMIT SHOP DRAWINGS FOR REVIEW.

INTERIOR COILING DOORS: "MODEL 650" MANUALLY OPERATED OVERHEAD COILING DOOR, 26 GAUGE CORRUGATED CURTAIN FABRICATED FROM GALVANIZED STEEL, PAINTED FINISH IN COLOR AS SCHEDULED, EXTERIOR LIFT HANDLE(S) ON BOTTOM BAR.

LATCH: ZINC COATED STAINLESS STEEL, JANUS MINI LATCH.

COILING DOOR ELECTRIC OPERATOR: "PANTHEON" DRUM MOUNTED LOW VOLTAGE DC MOTOR OPERATOR, UL 325 COMPLIANT CONTROLLER WITH UP/DOWN/STOP OPERATION AND KEYPAD SWITCH, ELECTRONIC LIMITS, SOFT START AND SOFT STOP, AND MANUAL RELEASE FOR MANUAL OPERATION.

HALLWAY SYSTEM: PROVIDE RELATED HOT-DIP GALVANIZED FRAMING, CHANNELS, ANGLES, HARDWARE, AND FASTENERS. COVER ALL GYPSUM BOARD, FIREPROOFING, PIPES, WIRES, AND CONDUITS EXPOSED IN CORRIDORS AND LOBBIES WITH HEMMED 20 GAUGE GALVALUME STEEL COVER WITH PAINTED FINISH TO THE HEIGHT OF THE HALLWAY SYSTEM.

DOOR HERS AND HEADERS: FLUSH PANELS FABRICATED FROM MINIMUM 20 GAUGE HOT-DIP GALVANIZED STEEL, WITH PAINTED FINISH IN COLOR AS SCHEDULED.

HALLWAY PANELS: CORRUGATED PANELS FABRICATED FROM MINIMUM 26 GAUGE HOT-DIP GALVANIZED STEEL, WITH PAINTED FINISH IN COLOR AS SCHEDULED. INSTALL VERTICALLY WITH MID-SPAN BRACING.

HALLWAY BASE: 18" HIGH X 0.080" THICK ALUMINUM DIAMOND PLATE BASE (ASTM B209 3003-H22) WITH RUBBER CAP AT ALL STORAGE CORRIDOR HALLWAY PANELS.

HALLWAY CORNERS: FABRICATED FROM MINIMUM 20 GAUGE HOT-DIP GALVANIZED STEEL, WITH PAINTED FINISH TO MATCH HALLWAY PANELS. PROVIDE 4"X4" HIGH X 0.080" THICK ALUMINUM DIAMOND PLATE CORNER GUARDS (ASTM B209 3003-H22) WITH RUBBER CAP AT ALL STORAGE CORRIDOR OUTSIDE CORNERS.

LOBBY WAINSCOT: 48" HIGH X 0.080" THICK ALUMINUM DIAMOND PLATE WAINSCOT (ASTM B209 3003-H22) WITH RUBBER CAP AT ALL LOBBIES.

UNIT NUMBER PLAQUE: 4"X8" PLAQUE CONFORMING TO OWNER'S SIGNAGE STANDARDS. COORDINATE NUMBERING WITH OWNER.

UNIT PARTITION SYSTEM: CORRUGATED PANELS FABRICATED FROM MINIMUM 26 GAUGE GALVALUME STEEL SHEET. INSTALL VERTICALLY WITH MID-SPAN BRACING. PROVIDE RELATED HOT-DIP GALVANIZED FRAMING, CHANNELS, ANGLES, HARDWARE, AND FASTENERS. COVER ALL GYPSUM BOARD, FIREPROOFING, PIPES, WIRES, AND CONDUITS EXPOSED IN THE STORAGE UNITS WITH HEMMED 20 GAUGE GALVALUME STEEL COVERS TO THE HEIGHT OF THE PARTITION SYSTEM.

HORIZONTAL SECURITY MESH: 2"x2"x1/8" GAUGE GALVANIZED WELDED WIRE MESH INSTALLED OVER TOP OF ALL INTERIOR STORAGE UNITS. PROVIDE HOT-DIP GALVANIZED ANGLES AT 5' CENTERS AND AT TOP OF UNIT PARTITIONS TO SUPPORT MESH, AND FASTEN SECURELY IN PLACE.

COMCHECK



COMcheck Software Version 4.1.1.0
Envelope Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Life Storage 230
Location: Brewster, New York
Climate Zone: 5a
Project Type: New Construction
Vertical Glazing / Wall Area: 1%

Construction Site: 1639 Route 22
Owner/Agent: Designer/Contractor: Brewster, NY 10509

Additional Efficiency Package(s)

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Building Area	Floor Area
1-Warehouse - Nonresidential	17571

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof: Metal Building, Standing Seam, Filled Cavity with Thermal Break(s) (Bldg. Use 1 - Warehouse)	5857	30.0	0.0	0.041	0.035
Core Floor: Slab-On-Grade (Unheated, Horizontal with vertical 2 ft. Brng. Use 1 - Warehouse)	160	---	10.0	0.700	0.540
WALLS					
Mfr. Pnl. Steel-Framed, 24" o.c. (Bldg. Use 1 - Warehouse)	560	19.0	0.0	0.054	0.064
Stair: Concrete Block 8" (Partially Grouted, Cels Empty, Normal Density, Furring Metal) (Bldg. Use 1 - Warehouse)	443	0.0	0.0	0.090	0.090
Basement Wall: Solid Concrete 12" Thickness, Normal Density, Furring Metal, Wall Ht 14.0, Depth B.G. 7.0 (Bldg. Use 1 - Warehouse)	463	0.0	0.0	0.096	0.108
CEILING					
Mfr. Pnl. Steel-Framed, 24" o.c. (Bldg. Use 1 - Warehouse)	2468	19.0	0.0	0.054	0.064
Sliding Door: Glass (> 50% glazing) Metal Frame, Entrance Door, Perf. Density, Furring Metal (Bldg. Use 1 - Warehouse)	72	---	---	0.360	0.770
Stair Elevator: Concrete Block 8" (Partially Grouted, Cels Empty, Normal Density, Furring Metal) (Bldg. Use 1 - Warehouse)	702	0.0	0.0	0.090	0.090
HM Door: Insulated Metal, Swinging (Bldg. Use 1 - Warehouse)	46	---	---	0.100	0.370
Basement Wall: Solid Concrete 12" Thickness, Normal Density, Furring Metal, Wall Ht 14.0, Depth B.G. 14.0 (Bldg. Use 1 - Warehouse)	1960	0.0	0.0	0.134	0.138
SDU/ITZ					
Mfr. Pnl. Steel-Framed, 24" o.c. (Bldg. Use 1 - Warehouse)	560	19.0	0.0	0.054	0.064
Stair: Concrete Block 8" (Partially Grouted, Cels Empty, Normal Density, Furring Metal) (Bldg. Use 1 - Warehouse)	443	0.0	0.0	0.090	0.090
Basement Wall: Solid Concrete 12" Thickness, Normal Density, Furring Metal, Wall Ht 14.0, Depth B.G. 7.0 (Bldg. Use 1 - Warehouse)	463	0.0	0.0	0.134	0.108

Project Title: Life Storage 230
Data filename: P:\Uncle Bob - Life Storage\UB 230 - Brewster NY Phs II\ComCheck\LS 230 Brewster, NY.cck
Report date: 03/1/20
Page 1 of 9

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
WEST					
Mfr. Pnl. Steel-Framed, 24" o.c. (Bldg. Use 1 - Warehouse)	4968	19.0	0.0	0.054	0.064

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Penetration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are R-factors.
(d) Thermal spacer block with minimum R-3.5 must be installed above the purflin/ast, and the roof deck secured to the purlin.

Envelope Passes: Design 0.4% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.1.1.0 and to comply with any applicable mandatory requirements listed on the Inspection Checklist.

Name: *Steve Erimas Hee* Signature: *[Signature]* Date: *3-10-20*

Project Title: Life Storage 230
Data filename: P:\Uncle Bob - Life Storage\UB 230 - Brewster NY Phs II\ComCheck\LS 230 Brewster, NY.cck
Report date: 03/1/20
Page 2 of 9



THESE DRAWINGS AND DESIGN ARE THE PROPERTY OF STANARD ARCHITECTURE INC. ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS SHALL BE REPRODUCED WITHOUT THE ARCHITECT'S PERMISSION. THEY ARE TO BE USED ONLY FOR THE PROJECT AND SITE IN CONNECTION WITH THE ISSUE DATE AND DESIGNATION OF THESE DRAWINGS. ALL DIMENSIONS MUST BE TO CENTER UNLESS NOTED OTHERWISE. THE ARCHITECT IS NOT RESPONSIBLE FOR DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION. DO NOT SCALE DRAWINGS.

THESE DRAWINGS AND DESIGN ARE THE PROPERTY OF STANARD ARCHITECTURE INC. ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS SHALL BE REPRODUCED WITHOUT THE ARCHITECT'S PERMISSION. THEY ARE TO BE USED ONLY FOR THE PROJECT AND SITE IN CONNECTION WITH THE ISSUE DATE AND DESIGNATION OF THESE DRAWINGS. ALL DIMENSIONS MUST BE TO CENTER UNLESS NOTED OTHERWISE. THE ARCHITECT IS NOT RESPONSIBLE FOR DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION. DO NOT SCALE DRAWINGS.

THESE DRAWINGS AND DESIGN ARE THE PROPERTY OF STANARD ARCHITECTURE INC. ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS SHALL BE REPRODUCED WITHOUT THE ARCHITECT'S PERMISSION. THEY ARE TO BE USED ONLY FOR THE PROJECT AND SITE IN CONNECTION WITH THE ISSUE DATE AND DESIGNATION OF THESE DRAWINGS. ALL DIMENSIONS MUST BE TO CENTER UNLESS NOTED OTHERWISE. THE ARCHITECT IS NOT RESPONSIBLE FOR DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION. DO NOT SCALE DRAWINGS.

Life Storage #230
Self Storage Phase II
1639 Route 22
Brewster, NY 10509



ISSUE FOR CONSTRUCTION REVISIONS:

PROJECT NUMBER: 201941
DATE: 6-5-20

SHEET NUMBER: A0.4