

SECTION - C07620: ROOF SHEET METAL FLASHING AND TRIM	
PART I - GENERAL	
1.1 SECTION INCLUDES	
A. Metal trims, coping, gutters, downspouts and accessories	
B. Metal fascia panels	
C. Metal soffit panels	
1.2 RELATED SECTIONS	
A. Thermoplastic Membrane Roofing: SECTION C07530	
B. Flexible and Sheetmetal Flashing: SECTION C07600	
1.3 REFERENCES	
A. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc Aluminum Coated (Galvalume) Steel.	
B. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.	
C. Dade County (Florida) Acceptance; Florida Product Approval (FBC)	
D. SMACNA (ASMM) - Architectural Sheet Metal Manual; Sheet Metal and Air Conditioning Contractors National Association; Architectural Sheet Metal Manual 2006 6TH Edition.	
E. IBC 2006/12 International Building Code	
F. ES 1 compliant to meet with ANSI/SPRI	
G. ASCE 7-10	
1.4 SUBMITTALS	
A. Submit under provisions of Section C01000	
B. Product Data: Manufacturer's data sheets on each product to be used, including:	
1. Preparation instructions and recommendations.	
2. Storage and handling requirements and recommendations.	
3. Installation methods.	
C. Shop Drawings: Submit shop drawings showing layout, profiles and product components, including anchorage, accessories, finish colors and textures.	
D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.	
E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color, and patterns.	
F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.	
G. Operation and Maintenance Data: Include methods for maintaining installed products and precautions relating to cleaning materials and methods that might be detrimental to finishes and performance.	
H. Close Out: Warranty documents specified herein.	
1.5 QUALITY ASSURANCE	
A. Installer Qualifications: A qualified installer, approved by manufacturer to install manufacturer's products.	
1. Contact: Lindy Beuthin, Regional Sales Manger, (800) 248-0280, ext. 2110. Installer must be authorized.	
1.6 DELIVERY, STORAGE, AND HANDLING	
A. Store products in manufacturer's unopened packaging with identification labels intact until ready for installation.	
B. Store materials protected from exposure to harmful conditions. Store material in a dry, above ground location.	
1. Stack pre-finished material to prevent twisting, bending, and abrasion, scratching and denting. Elevate one end of each skid to allow for moisture to run off.	
2. Prevent contact with material that may cause corrosion, discoloration or staining.	
3. Do not expose to direct sunlight or extreme heat trim material with factory applied stripable film.	
1.7 PROJECT CONDITIONS	
A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.	
1.8 WARRANTY	
A. Manufacturer's Warranty: Provide manufacturer's warranty, inclusive of all sheet metal, edge to edge as detailed in SECTION 07530 roofing section. The system shall be as provided by Duro-Last and made part of the edge to edge warranty.	
PART II - PRODUCTS	
2.1 MANUFACTURERS	
A. Manufacturer: Duro Last/Exceptional Metals, Saginaw, MI 48601 (See National Accounts)	
B. Requests for substitutions will be considered in accordance with provisions of Section C01030.	
C. Soffit Panels: Exceptional Metals Aluminum Soffit Panels; V-grooved.	
1. Type: Smooth Surface	
2. Type: 0.040 Aluminum	
3. Style: Solid	
4. Panel Width: 12 inches (305 mm), center to center.	
5. Color: As indicated on the drawings	
D. Trim: Manufacturer's standard trim profiles, factory formed; fabricated as recommended in SMACNA Architectural Sheet Metal Manual.	
1. Material: 24 gauge, 0.024 inch (0.61 mm) ASTM A 653/A 653M Galvalume steel.	
2. Material: 22 gauge, 0.03 inch (0.76 mm) ASTM A 653/A 653M Galvanized Grade 50 steel.	
3. Material: 0.040 inch (1.1 mm) aluminum, ASTM B 209 3105-H14 alloy.	
4. Finish: KYNAR 500/HYLAR 5000 70% PVDF (Polyvinylidene fluoride) paint.	
5. Color: As indicated on the drawings	
E. Gutters and Downspouts: Manufacturer shall provide gutters and downspouts. Finish and color as indicated on the drawings.	
6. Gutter shall consist of 24 gauge Galvalume, Kynar 500/Hylar 5000, Grade 50 steel consisting of 70% PVDF coating.	
7. Downspouts shall consist of 24 gauge Galvalume, Kynar 500/Hylar 5000, Grade 50 steel, 70% PVDF coating. All seams for downspouts shall be Pittsburgh seamed not pop riveted, except at the elbows. Pop rivets shall be Stainless Steel and match in color.	
F. Two Piece Compression perimeter edge metal:	
1. Base leg attached to the perimeter shall consist of 22 gage steel cleat.	
2. Compression Edge Metal shall consist of 0.040 Aluminum to match the color as indicated on drawings.	
H. Coping Cap:	
1. Coping Special design shall be as detailed in the drawings, providing 24 gage cleat, splice plates and coping base on 4-inch face.	
I. Scupper Overflow and Through Wall with custom fit Receiver	
1. Scupper Overflow: Metal Flange and 2 Skirt Scupper consisting of 24 gauge vinyl coated steel shall be shop fabricated by the manufacturer. The skirt shall be back sealed using the factory supplied mastic behind the flange.	
2. Scupper and Collector: Through Wall Scupper and Collector shall be shop fabricated and sized by the manufacturer in one monolithic assembly. The top flange of the collector shall be back sealed and fastened at 4-inch centers. The Receiver/Collector Box shall match color, as indicated on the drawings. The Receiver/Collector shall be 24 gauge steel, Grade 50 steel and the scupper shall be made part of the specified warranty.	
3. All Skirts for through wall and for overflow scupper shall be fabricated with White PVC.	
J. Fascia Custom and Standard Fascia	
1. Custom Fascia shall be of 0.040 aluminum.	
2. Standard Fascia shall consist of 24 gauge steel. Use manufacturer provided cleats.	

PART III - EXECUTION	
EXAMINATION	
A. Verify that substrates are acceptable for roofing installation in accordance with manufacturer's instructions.	
B. Do not begin installation until substrates have been properly prepared.	
C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.	
INSTALLATION	
A. Install in accordance with manufacturer's written instructions.	
B. Coordinate roofing with other work, including but not limited to drainage, flashing and trim, deck substrates, parapets, copings, walls, and other adjoining work.	
C. Install roofing, patterns and drainage indicated, in accordance with manufacturer's instructions, and as necessary to achieve specified performance and a leak-free installation. Allow for structural and thermal movement.	
D. Separate dissimilar metals using bituminous coating to prevent galvanic action.	
E. Provide uniform, neat seams; provide sealant-type joint where indicated and form joints to conceal sealant.	
FIELD QUALITY CONTROL	
A. Post Installation Testing: Owner reserves right to perform post installation testing of installed roofing.	
B. Manufacturer's Field Services: Upon Owner's request, provide manufacturer's field service consisting of product use recommendations and periodic site visit for inspection of product installation in accordance with manufacturer's instructions. Field Technician shall be a certified inspector employed by Duro-Last and not a member of the sales staff.	
CLEANING	
A. Remove temporary coverings and protection of adjacent work areas.	
B. Touch-up, repair or replace damaged products.	
C. Clean in accordance with manufacturer's instructions prior to Substantial Completion.	
D. Remove construction debris from project site and legally dispose of debris.	
PROTECTION	
A. Protect installed products until completion of project.	
B. Touch-up, repair or replace damaged products before Substantial Completion.	
END OF SECTION C07620	
SECTION - C07720: ROOFTOP SUPPORT SYSTEMS	
PART I - GENERAL	
SECTION INCLUDES	
A. The work covered by this specification consists of furnishing all labor, equipment, materials and accessories, and performing all operations required for the correct installation of recycled rubber pipe supports for mechanical piping and elevated platform supports for refrigeration condensers.	
QUALITY ASSURANCE	
A. Rooftop Support Systems shall be manufactured under a strict quality control program assuring quality product delivered to the jobsite. Supports that are damaged shall not be installed.	
B. Workmanship: All supports to be installed by a qualified contractor and installed in accordance with manufacturer's recommendations.	
1. All work shall comply with all applicable federal, state, and local codes and laws having jurisdiction.	
2. All work shall conform to accepted industry and trade standards for pipe support installations.	
RELATED SECTIONS	
A. Thermoplastic Membrane Roofing: SECTION C07530	
B. Flexible and Sheetmetal Flashing: SECTION C07600	
PART II - PRODUCTS	
MANUFACTURERS	
A. Pipe Supports:	
1. Cooper B-Line, Inc., Highland, IL 62249, "DURA-BLOK"	
B. Elevated Equipment Supports:	
2. AVCOA Corporation, Fort Lauderdale, FL 33314	
MATERIALS	
A. Pipe Support: Curb base shall be made of 100% recycled rubber and polyurethane prepolymer with a uniform load capacity of 500 pounds per linear foot of support. In addition, each base to have a reflective yellow stripe.	
1. Steel Frame: Steel, 14 gauge strut galvanized per ASTM A653 or 12 gauge strut galvanized per ASTM A653 for bridge series.	
2. Attaching hardware: Zinc-plated threaded rod, nuts and attaching hardware per ASTM B633.	
B. Equipment Support: Constructed of 6061-T6 Aluminum alloy. The support system shall consist of rectangular or circular tube legs, with rails (I-beams) and clips and plates. Engineered to withstand high velocity hurricane zone provisions. Wind loads shall be verified with local jurisdiction having authority. Verify minimum clear clear height required.	
PART III - EXECUTION	
INSTALLATION	
A. Pipe Support:	
1. Install in accordance with manufacturer's instructions.	
2. Always consult roofing manufacturer for roof membrane compression capacities. If necessary, a compatible sheet of roofing material (rubber pad) may be installed under rooftop support to disperse concentrated loads and add further membrane protection.	
3. Gas pipe spacing subject to local gas authorities.	
4. Use properly sized clamps to suit pipe sizes.	
B. Equipment Elevated Support:	
1. Install 2 rails 5 feet each and 2 rails 7 feet with three supports each rail (center middle leg), 5 feet rails to be 31-inches apart at cooler/freezer condensers and 7feet rails to be 27-inches apart at ice machine condensers. Stands shall provide 18-inch minimum clearance and shall be sized and installed according to the manufacturer's load charts and printed installation details.	
END OF SECTION C07720	

SECTION - C07740: ROOF HATCHES	
PART I - GENERAL	
SECTION INCLUDES	
A. Furnish labor, materials, services, equipment and appliances required for roof hatch work only when indicated on the Drawings and specified herein.	
RELATED SECTIONS	
A. Aluminum Ladders: SECTION C05514	
B. Thermoplastic Membrane Roofing: SECTION C07530	
C. Flexible and Sheetmetal Flashing: SECTION C07600	
WARRANTY	
A. Manufacturer's Standard Warranty: Materials shall be free of defects in material and workmanship for a period of five (5) years from the date of purchase.	
SUBSTITUTIONS	
A. Substitutions shall be considered in accordance with provisions of Section C01030.	
PART II - PRODUCTS	
MANUFACTURER	
A. Bilco Company, New Haven, CT 06505	
ROOF HATCHES	
A. Type "S-20", completely assembled:	
1. Curbs: 14 gauge prime painted steel with 22 gauge steel liner; 12 inches high; extended flanges for mounting with screws; Integral cap flashing of same gage of material as curb.	
2. Covers: Same materials and gages as curbs; continuous Neoprene gasket weatherproof seal.	
3. Curb and Cover Insulation: One inch thick rigid.	
4. Hardware: Heavy duty pintle hinges, manually operated compression spring operators enclosed in telescopic tubes, positive snap latches with plated turn handles inside and out, automatic hold-open arm with vinyl grip handle; cadmium plated finish.	
FABRICATION	
A. Fabricate free of visual distortions and defects. Weld corners and joints. Provide for removal of condensation. Provide weather-tight assembly.	
PART III - EXECUTION	
PROTECTION	
A. Cover and protect hatches from damage before and after installation. Replace damaged covers at no additional cost to Owner.	
INSTALLATION	
A. Install in accord with manufacturer's instructions. Coordinate with installation of roofing system and related flashings. Provide weather-tight installation. Apply bituminous paint on metal surfaces of units in contact with cementitious materials and dissimilar metals.	
END OF SECTION C07740	
SECTION - C07920: SEALANTS AND CAULKING	
PART I - GENERAL	
SECTION INCLUDES	
A. Exterior sealing; waterproofing and visual requirements.	
B. Interior sealing; painting requirements.	
C. Interior mildew-resistant sealant.	
D. Fire-resistant joint sealant.	
E. Preparing sealant substrate surfaces.	
F. Sealant and backing.	
RELATED SECTIONS	
A. Concrete Footing/Slab-on-Grade: SECTION C03300	
B. Unit Masonry Assemblies: SECTION 04810	
C. Finish Carpentry: SECTION C06200	
D. Flexible and Sheet Metal Flashing: SECTION C07600	
E. Roof Sheet Metal Flashing and Trim: SECTION C07620	
F. Aluminum-Framed Entrances and Storefronts: SECTION C08411	
G. Pass-Thru Windows: SECTION C08580	
H. Gypsum Board: SECTION C09250	
I. Reinforced Wall Coverings: SECTION C097700	
J. Painting: SECTION C09910	
K. Millwork, Cabinetry and Countertops: SECTION C12390	
INTENT	
A. Requirements of this Section controls the type and quality of sealing work. Unless specifically directed otherwise in other Sections and/or on the Drawings these Technical Sections shall take precedence.	
B. Provide sealant required to close joints that would allow moisture or air to enter structure between fixed materials as shown on the drawings and as herein specified including but not limited to:	
1. Sealing of interior perimeter joints of window framing, door frames, and other wall openings.	
2. Setting of thresholds in sealant.	
3. Sealing of joints between countertops and wall surfaces for a sanitary joint.	
4. Sealing of joints of every nature and description that would allow moisture or air penetration.	
5. Sealing of joints indicated to be caulked or sealed whether specifically mentioned herein or not.	
6. Sealing around all pipe, duct and vent penetrations.	
PART II - PRODUCTS	
MANUFACTURER	
A. The Drawings were prepared & written on the basis of using the products pre-approved by the Owner. Such is intended to establish minimum quality and LEED standards, not to limit competitive bidding. Products with equal or superior characteristics by other manufacturers are acceptable under conditions of the Section C01030. The use of sealants with low VOC's is preferred.	
SEALANT MATERIALS	
A. Exterior Sealant: Compound used at masonry joints.	
1. BASF Soroelastic NP2, three-part polyurethane sealant; ASTM-C920, Type M.	
2. Color: Match brick mortar	
B. Exterior Sealant: Compound used at exterior sidewalks and exposed concrete areas.	
1. BASF Soroelastic NP2, three-part polyurethane sealant; ASTM-C920, Type M.	
2. Color: Match exposed concrete	

Interior Sealant: Compound used throughout job in dining, kitchen, restrooms, etc:	
1. Dow Corning 790, one-part neutral-cure silicone sealant.	
2. Color: Clear	
D. Fire-Resistant Joint Sealant: (as required by building codes or authorities)	
1. One part fire-stopping sealant system formulated for use in through-penetration sealing of openings, cables, conduit, pipes, and penetrations through walls and floors.	
3M Fire Barrier Sealant CP-25WB+ by Electrical Products Division, 3M Company.	
Kitchen Exhaust Hoods to Stainless Steel Wall Panels:	
1. 3M "Fire Barrier" 2000	
2. International Protective Coatings "Flamesafe" FS 1900.	
ACCESSORIES	
A. Primer: Non-staining type, recommended by sealant manufacturer, to suit application.	
B. Joint Cleaner: Non-corrosive and non-staining; recommended by sealant manufacturer; compatible with joint forming materials.	
C. Joint Backing: Where required, non-absorbent and non-staining foam rod, compatible with sealant used. Diameter required to form friction surface at sides of open joint.	
D. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.	
E. Masking Tape: FS UU-T-106.	
PART III - EXECUTION	
GENERAL	
A. Do not use interior sealant for exterior conditions. Gun apply compound with nozzle of proper size to fit width of joint indicated; force sealant into joint with sufficient pressure to expel air and fill groove solidly.	
INSPECTION	
A. Verify that surfaces and joint openings are ready to receive work and field measurements are as shown on Drawings and recommended by sealant manufacturer. Beginning of installation means installer accepts existing conditions as appropriate for work.	
CONDITIONS	
A. Exterior: Apply sealants when temperature is between 40 and 100 degrees F.	
B. Interior: Do not install solvent curing sealants in enclosed building spaces. Maintain temperature and humidity recommended by sealant manufacturer during and after installation.	
PREPARATION	
A. Perform in accord with ASTM C804 for solvent release and C790 for latex base sealants. Remove loose materials and foreign matter which might impair adhesion of sealant. Clean and prime joints in accord with manufacturer's instructions. Verify that joint backing and release tapes are compatible with sealant. Protect elements surrounding work of this Section from damage or discoloration.	
INSTALLATION	
A. General: Conform to SWI requirements for installation and with manufacturer's instructions. Measure joint dimensions and size materials to achieve required width/depth ratios.	
B. Joint Backing: Install to achieve neck dimension no greater than 1/3 joint width.	
C. Bond Breaker: Install where joint backing is not used.	
D. Masking Tape: Place on finish surface on one or both sides of joint cavity to protect adjacent finish surfaces from compound smears. Remove within 10 minutes after joint has been filled and tooled.	
E. Primer: Use in accord with manufacturer's instructions. Test for staining on samples of actual surfaces to be sealed prior to application.	
3.6 FINISHING	
A. Tool joints slightly concave unless shown otherwise on the Drawings. When tooling white or light color sealant, use dry or water wet tool.	
3.7 CLEANING AND REPAIRING	
A. Remove masking tapes and clean adjacent soiled surfaces. Repair or replace defaced or disfigured finishes caused by work of this Section.	
3.8 PROTECTION OF COMPLETED WORK	
A. Protect sealants until cured.	
END OF SECTION C07920	
DIVISION 8 - DOORS AND WINDOWS	
SECTION - C08110: STANDARD STEEL DOORS AND FRAMES	
PART I - GENERAL	
SUMMARY	
A. All doors and frames in this section are to be supplied and installed by the General Contractor through the Owner's National Account Vendor, refer to National Account list.	
B. Section Includes:	
1. Pressed steel hollow metal doors and frames.	
2. Hollow-metal frames for Plastic Laminated doors.	
3. Metal louvers in hollow metal doors.	
4. Hollow metal frame reinforcing, door reinforcing, door insulation, closer reinforcements, clips angles and anchorage.	
5. Factory prime paint finish.	
RELATED SECTIONS	
A. Unit Masonry Assemblies (Grout): Section C04810	
B. Plastic Laminated Faced Doors: SECTION C08210	
C. Finish Door Hardware: SECTION C08710	
D. Glazing: SECTION C08800	
E. Painting: SECTION C09910	
QUALITY ASSURANCE	
A. Applicable Standards: Specifications and standards of SDI 100-99.	
B. Wind Load Performance Requirements: All exterior doors and frames must meet design pressure provided by the Architect/Engineer for this project.	
C. Supplier Qualification: Qualified direct distributor of products to be furnished. The distributor shall have in their regular employment an A.H.C./C.D.C. or person of equivalent experience who will be available at reasonable times to consult with the Architect, Contractor and/or Owner regarding any matters affecting the total door and frame openings.	
D. Installer Qualification: Experience with installation of similar materials.	
SUBMITTALS	
A. Product Data: Include construction details, material descriptions, core descriptions, label compliance, fire-resistance rating, and finishes for each type of steel door and frame specified.	
B. Product test reports.	
C. Shop Drawings: Provide a schedule of standard steel doors and frames using same reference numbers for details and openings as those on the drawings.	

PRODUCT HANDLING	
A. Deliver hollow metal doors in manufacturer's protective covering. Handle hollow metal with care to prevent damage.	
B. Door Storage: Store doors in upright position, under cover. Place doors on 4-inch minimum high wood skids or on floors in manner that will prevent rust and damage. Do not use non-vented plastic or canvas shelters which create humidity chamber and promote rusting. If corrugated wrapper on door becomes wet, or moisture appears, remove wrapping immediately. Provide 1/4-inch space between doors to promote air circulation.	
C. Frame Storage: Store frames under cover on 4-inch minimum wood skids or on floors in manner that will prevent rust and damage. Do not use non-vented plastic or canvas shelters which create humidity chamber and promote rusting. Store assembled frames in vertical position, 5 units maximum in stack. Provide 1/4-inch space between frames to promote air circulation.	
PART II - PRODUCTS	
MANUFACTURERS	
A. HOLLOW METAL SUPPLIER CONTACT INFORMATION:	
Lockne:	
100 Courchelle Drive	
Nickolasville, KY 40356	
ATTN: Jeff Kirkner (856) 887-9119 ext. 131	
HOLLOW METAL	
A. Acceptable Manufacturers:	
1. Steelcraft an Ingersoll-Rand Company, "L-Series"	
2. Amweld Building Products, Inc.	
C. Ceco Door Products; an ASSA ABLOY Group Company	
B. Cold-Rolled Steel Sheet: Commercial quality, stretcher leveled flatness, cold-rolled steel, free from scale, pitting or other surface defects, complying with ASTM A366 and A568 general requirements.	
C. Galvanealed Steel Sheets: ASTM A924, A60 zinc coating. Use galvanealed steel sheets for exterior hollow metal doors, door frames and door louvers. Internal reinforcing may be manufactured of hot rolled pickled and oiled steel per ASTM-A569.	
D. Coating materials, primer: Use manufacturer's standard rust inhibiting primer conforming to ANSI-A224.1-1990.	
RELATED MATERIALS	
A. Supports and Anchors: After fabricating, galvanize units to be built into exterior walls according to ASTM A 153/A 153M, Class B.	
B. Inserts, Bolts and Anchors: Provide items to be built into exterior walls, hot-dip galvanized according to ASTM A 153/A 153M.	
C. Power-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devices for attaching standard steel door frames of type indicated.	
D. Bituminous Coating: cold-applied asphalt mastic, SSPC-Paint 12, compounded for 15-mil dry film thickness per coat. Provide inert-type noncorrosive compound free of asbestos fibers, sulfur components, and other deleterious impurities.	
STANDARD STEEL DOORS	
A. General: Provide doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces. Comply with ANSI A250.8.	
1. Core Construction: Manufacturer's standard polystyrene core that produces doors complying with ANSI A250.8.	
2. Vertical Edges for Single-Acting Doors: Beveled edge.	
a. Beveled Edge: 1/8 inch in 2 inches (3 mm in 50 mm).	
3. Top and Bottom Edges: Closed with flush or inverted 0.042-inch- (1.0-mm-) thick end closures or channels of same material as face sheets.	
B. Exterior Doors: Face sheets fabricated from metallic-coated steel sheet. Provide doors complying with requirements indicated below by referencing ANSI A250.8 for level and model and ANSI A250.4 for physical-endurance level:	
1. Level 3 and Physical Performance Level A (Extra Heavy Duty), Model 2 (Seamless).	
Interior Doors: Face sheets fabricated from cold-rolled steel sheet, unless otherwise indicated to comply with exterior door requirements. Provide doors complying with requirements indicated below by referencing ANSI A250.8 for level and model and ANSI A250.4 for physical-endurance level:	
1. Level 2 and Physical Performance Level B (Heavy Duty), Model 2 (Seamless).	
STANDARD STEEL FRAMES	
A. General: Comply with ANSI A250.8 and with details indicated for type and profile.	
B. Exterior Frames: Fabricated from metallic-coated steel sheet.	
1. Frames for Level 3 Steel Doors: 14 GA. steel sheet.	
C. Interior Frames: Fabricated from cold-rolled steel sheet, unless otherwise indicated to comply with exterior frame requirements.	
1. Frames for Level 2 Steel Doors: 16 GA. steel sheet.	
2. Frames for Laminated Doors: 0.053-inch (1.3 mm) thick steel sheet.	
D. Supports and Anchors: Fabricated from electrolytic zinc-coated or metallic coated steel sheet.	
E. Jamb Anchors: Masonry, stud-wall, compression, or postinstalled expansion type; not less than 0.042 inch (1.0 mm) thick.	
F. Floor Anchors: Formed from same material as frames, not less than 0.042 inch (1.0 mm) thick.	
G. Plaster Guards: Formed from same material as frames, not less than 0.016-inch (0.4-mm) thick.	
FABRICATION	
A. General: Fabricate standard steel doors and frames to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. To ensure proper assembly at Project site, clearly identify work that cannot be permanently factory assembled before shipment. Reinforce as required to support loads imposed by door operation and for installing hardware.	
B. Standard Steel Doors:	
1. Exterior Doors: Provide weep-hole openings in bottom of exterior doors to permit moisture to escape. Seal joints in top edges of doors against water penetration.	
2. Glazed Lites: Factory cut openings in doors.	
C. Standard Steel Frames: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of same thickness metal as frames.	
1. Welded Frames: Weld flush face joints continuously; grind, fill, dress, and make smooth, flush, and invisible.	
2. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners, unless otherwise indicated.	
3. Plaster Guards: Weld guards to frame at back of hardware mortises in frames installed in concrete or masonry.	
4. Floor Anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per anchor.	
5. Jamb Anchors: Locate anchors not more than 18 inches (457 mm) from top and bottom of frame. Space anchors not more than 32 inches (813 mm) o.c.	
B. Door Silencers: Except on weather-stripped doors, drill stops to receive door silencers as follows. Provide plastic plugs to keep holes clear during construction.	
D. Hardware Preparation: Factory prepare standard steel doors and frames to receive templated mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping, according to the Door Hardware Schedule and templates furnished as specified on the drawings.	
1. Comply with applicable requirements in ANSI A250.6 and ANSI/DHI A115 Series specifications for door and frame preparation for hardware. Locate hardware as indicated on Shop Drawings or, if not indicated, according to ANSI A250.8.	
E. Stops and Moldings: Provide stops and moldings around glazed lites where indicated. Form corners of stops and moldings with beveled or mitered hairline joints.	
1. Provide fixed stops and moldings welded on secure side of door or frame.	
2. Provide loose stops and moldings on inside of doors and frames.	



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INTERPLAN

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INTERIOR DESIGN  
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FSR# 00534

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
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CONSULTANT PROJECT # 2016.0430

PRINTED FOR Bid

DATE November 20, 2017

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