
THIS SPECIFICATION CONTAINS BRAND NAME PRODUCTS

SECTION 13 42 75
INTEGRATED INTERIOR ASSEMBLIES
07/20

New Section

PART 1 GENERAL

1.1 SUMMARY

1.1.1 Section Includes

- A. Delegated design of integrated interior assemblies.
- B. Structure.
- C. Finish panels.
- D. Doors and frames.
- E. Door hardware.
- F. Electrical.
- G. Communications.
- H. Factory integrated components.
- I. Site integrated components.

1.1.2 Related Requirements

01 30 00 - ADMINISTRATIVE REQUIREMENTS: for additional requirements of preinstallation meeting.

01 45 00.00 20 - QUALITY CONTROL: for additional requirements related to Quality Requirements and testing.

01 30 01.00 22 - DESIGN, PROCUREMENT, AND INSTALLATION OF FURNITURE, FIXTURES, AND EQUIPMENT: for additional requirements related to the mockups in this section.

01 33 29 - SUSTAINABILITY REPORTING: for additional requirements relating to indoor air quality.

01 74 19 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL: Limitations on disposal of removed materials and requirements for recycling.

Division 03 - Cast Underlayment for floor leveling compounds needed to achieve floor levelness tolerances.

Division 08 - Doors and Frames for site integrated components and Door Hardware for site integrated components.

Division 09 - Acoustical Ceilings for site integrated components; Specialty Ceilings for site integrated components; Resilient Flooring for site installed integral cove base at interior assemblies; and Low-Profile Fixed Height Access Flooring for site integrated components.

Division 10 - Folding Panel Partitions for site integrated components.

Division 11 - Hydroponic Growing Systems for "Breathe Wall", or equal to, applications.

Division 12 - Manufactured Casework: For modular casework and countertops.

Division 26 - Electrical for site integrated components and commissioning.

Division 27 - Communications for site integrated horizontal cabling.

Division 28 - Electronic Safety and Security for site integrated components.

1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA)

AAMA 611 (2014) Voluntary Specification for
Anodized Architectural Aluminum

ASTM INTERNATIONAL (ASTM)

ASTM C1048 (2012; E 2012) Standard Specification for
Heat-Strengthened and Fully Tempered Flat
Glass

ASTM E136 (2016) Behavior of Materials in a Vertical
Tube Furnace at 750 Degrees C

ASTM E413 (2016) Classification for Rating Sound
Insulation

ASTM E72 (2015) Conducting Strength Tests of Panels
for Building Construction

ASTM E84 (2017) Standard Test Method for Surface
Burning Characteristics of Building
Materials

ASTM E90 (2009) Standard Test Method for Laboratory
Measurement of Airborne Sound Transmission
Loss of Building Partitions and Elements

BIFMA INTERNATIONAL (BIFMA)

ANSI/BIFMA X5.6 (2016) American National Standards For
Office Furnishings -Panel Systems

INTERNATIONAL CODE COUNCIL (ICC)

ICC IBC (2018) International Building Code

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 286 (2015) Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

16 CFR 1201 Safety Standard for Architectural Glazing Materials

UNDERWRITERS LABORATORIES (UL)

UL 183 (2009) UL Standard for Safety Manufactured Wiring Systems

UL 498 (2017; Reprint Nov 2017) UL Standard for Safety Attachment Plugs and Receptacles

UL 507 (1999; Reprint Jun 2012) Standard for Electric Fans

UL 514A (2013; Reprint Aug 2017) UL Standard for Safety Metallic Outlet Boxes

UL 514B (2012; Reprint Nov 2014) Conduit, Tubing and Cable Fittings

UL 514C (2014; Reprint Dec 2014) Nonmetallic Outlet Boxes, Flush-Device Boxes, and Covers

UL 723 (2008; Reprint Aug 2013) Test for Surface Burning Characteristics of Building Materials

1.3 DEFINITIONS

- A. Finish Panel: Site installed panels with factory applied final finish and cutouts for accommodation of mechanical, electrical and plumbing components.
- B. Conventional back box: Standard NEC device metallic back box.
- C. Specialty back box: Proprietary back box required for devices other than those specified in this section.
- D. Factory Integrated Components: Materials or components specified in other sections for factory assembly within integrated interior assemblies.
- E. Site Integrated Components: Materials or components specified in other sections for site assembly within integrated interior assemblies.

1.4 ADMINISTRATIVE REQUIREMENTS

1.4.1 Pre-Installation Meetings

Convene two weeks before starting installation work of this section in accordance with 01 30 00 - ADMINISTRATIVE REQUIREMENTS.

- A. Attendees: Owner's representative, Architect, Contractor, and all Subcontractors interfacing with integrated interior assemblies.
- B. Review preparation, sequencing and installation procedures of the integrated interior assemblies to coordinate the work of this section with other impacted sections.

1.5 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for Contractor Quality Control approval. Submittals with an "S" are for inclusion in the Sustainability Notebook, in conformance with Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Provide the following information to the manufacturer prior to development of shop drawings.

Field Measurements; G

Field measurements of existing construction, future construction, finished width and height of walls and associated components, as well as design team provided plans and elevations.

Where field measurements are not possible, hold-to and control dimensions must be coordinated and agreed upon by all parties who interface with the integrated interior assemblies through the Shop Drawing process before manufacturing begins.

Structure; G

Include selected wall types.

Finish Panels; G

Include finishes and configurations.

Doors And Frames; G

Include cores, finishes, frames, and operations.

Door Hardware; G

Include manufacturer's standard hardware and site integrated component hardware.

Electrical; G

Include device type and location, schedules indicating

electrical device specifications, amperage, ground pin orientation, type of solution, wiring configuration, receptacle, faceplate and trim ring colors and styles, and any Factory or Site Integrated Components.

Communications; G

Include faceplate colors and styles and any Factory or Site Integrated components.

Factory and Site Integrated Components; G

Provide make, model, size, configuration, materials and any additional pertinent product data for factory assembly.

Provide make, model, size, configuration and any additional pertinent product data for site installation.

SD-02 Shop Drawings

Submit shop drawings for review prior to commencing any fabrication of the integrated interior assemblies. Coordinate as required until scope is confirmed by all affected stakeholders. Include manufacturer provided plans, elevations, sections, schedules and applicable notes per the following:

Structure; G

Indicate reveal type, profile type, finishes and attachment to base building.

Finish Panels; G

Indicate finishes, cores, glazing, accessories and configurations.

Doors And Frames and Door Hardware; G

Include elevations indicating glazing and finishes, schedules indicating door tags, styles, dimensions, handing, hardware and finishes.

Electrical; G

Coordinate electrical components specified herein with the documents provided by the electrical engineer of record.

Indicate types and locations of wiring devices, outlet, junction and pull boxes, copper conductors and cables, conduit, electrical branch circuiting, amperage, ground pin orientation, wiring diagrams, and faceplate, receptacle and trim ring colors and styles.

Communications; G

Indicate location of components within the integrated interior assembly. See division 27 for additional submittal requirements.

Factory and Site Integrated Components; G

Indicate device type and location.

SD-03 Product Data

Provide manufacturers standard tech sheets as applicable to the project for the following:

Structure; G

Doors And Frames; G

Door Hardware; G

Electrical; G

Accessories; G

Finish Panels; G

SD-04 Samples

Submit two samples for verification of selected finish as scheduled upon request unless noted otherwise. All wood veneer and non-standard custom finishes must be reviewed and approved by the Architect.

Anodized; G, AE

3 x 6 inch on metal.

Chroma Coat or equal to; G, AE

Standard Color: 2 x 2 inch paint chip.

Wood Veneer; G, AE

4 x 4 inch on MDF.

Glass; G, AE

4 x 4 inch

Writeaway Laminate or equal to; G, AE

4 x 8 inch

SD-06 Test Reports

Electrical; G

Communications; G

Fire Resistance; G

Submit documentation of installer performed tests and certification for submission to the Authority Having Jurisdiction.

SD-07 Certificates

Qualification; G

SD-08 Manufacturer's Instructions

Installation; G

Indicate any special preparation of base building conditions, installation and attachment methods.

SD-10 Operation and Maintenance Data

Cleaning; G

Adjusting; G

Provide maintenance data for incorporation into operation and maintenance manuals.

SD-11 Closeout Submittals

Manufacturer Warranty; G

Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

Packing Slip; G

Submit copy of packing slip for shipment of re-usable packaging "cookies" and modular electrical dust caps back to manufacturer.

1.6 QUALITY ASSURANCE

1.6.1 Qualification

1.6.1.1 Manufacturer Qualifications

Company specializing in the manufacture of work specified in this section, of the quality and complexity required for this project for a minimum 10 years. Show production facilities capable of meeting contract requirements for single-source responsibilities and warranty.

1.6.1.2 Wall Installer Qualifications

Company trained and certified by manufacturer and specializing in performing the work of this section.

1.6.1.3 Electrical Installer Qualifications

Installer licensed for the work in the location of the project with 3 years of documented experience.

1.6.1.4 Integrated Electrical Components Installer Qualifications

Connections to the base building electrical system and all field installed electrical components, devices, and accessories require installation by an electrical contractor licensed in the jurisdiction of the project in accordance with applicable building and electrical codes and standards. Such work shall be performed under permit, tested, and inspected to confirm

adequacy of final installations to the satisfaction of the Authority Having Jurisdiction.

1.6.1.5 Source Limitations

Obtain integrated interior assemblies from a single source.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver or install integrated interior assemblies until spaces are enclosed and weather-tight, wet work is complete and dry, work above ceilings is substantially complete, and HVAC system is operational and able to maintain ambient temperature and humidity conditions between 60 and 90 degrees Fahrenheit (15.5 and 32.2 Celsius) with Relative Humidity maintained between 25 and 55 percent.
- B. Do not allow packaging to get wet or develop condensation.
- C. Comply with the manufacturer's requirements for a warrantable installation of the installed products to meet the Performance and Design Criteria.
- D. Collect and return re-usable packaging "cookies" and modular electrical dust caps to manufacturer. Submit copy of [packing slip](#).

1.8 [MANUFACTURER WARRANTY](#)

Provide 10 year warranty on walls, doors, door frames, door hardware, electrical, communications and plumbing accommodations for failures in materials or workmanship as indicated by the manufacturer standard warranty.

PART 2 PRODUCTS

2.1 MANUFACTURER

Specification is based on products listed below by DIRT Environmental Solutions or equal product.

2.2 DESCRIPTION

Factory assembled, site installed, integrated interior assemblies, including Structure, Finish Panels, Doors and Frames, Door Hardware, Electrical, Communications, and Factory and Site Integrated components.

2.3 PERFORMANCE AND DESIGN CRITERIA

- A. Provide integrated interior assemblies that are factory sub-assembled and site installed to integrate with the base building structure, shell, mechanical, electrical and plumbing systems.
- B. Walls shall utilize factory finish site installed panels that mechanically fasten to a factory finished and assembled aluminum structural frame module. Finish panels may be monolithic or segmented with the ability to span off-module, or across multiple frames in segments or monoliths, vertically and horizontally.
- C. Assembly shall allow for independent configuration of structure, finishes and functions relative to each side of the wall.

- D. Assembly shall be comprised of components which can be disassembled, relocated and field cut and substantially reused for future reconfigurations allowing for adaptability and retrofitting of the Structure, Finish panels, Doors and Frames, Door Hardware, Electrical, Communications, and Factory and Site Integrated components.
- E. Structure shall be capable of supporting wall hung accessories including but not limited to: casework, furniture, systems furniture, shelves, countertops and equipment in channels or reveals that are integrated within the structural frame and enable universal horizontal alignment without damaging finishes.
- F. Integrated interior assembly shall enable access of the internal cavity from either side without the addition of an access panel or need for repairing of finishes.
- G. Provide integrated interior assembly with a continuous open cavity vertically and horizontally free of structural impediments for the routing of mechanical, electrical and plumbing components.
- H. Provide integrated interior assemblies capable of accommodating up to a 1-inch (25 mm) gap between the top, bottom and side edges of the prefabricated assembly and base building elements.
- I. Provide an integrated interior assembly system capable of accepting pressure fit extrusions and co-extrusions to fill voids between finish panels, at ceiling connections, and other base building connections.

2.3.1 Structural Performance

- A. Capable of withstanding the effects of gravity loads, dead loads, and the following loads and stresses within limits and under conditions indicated:
 - 1. Transverse Load: Lateral deflection of the overall span when tested under a uniformly distributed load of 5 psf (0.24 kN/m²) in accordance with [ASTM E72](#) where (L) equals wall height:
 - a. Solid Walls: not more than L/120
 - b. Glass Walls: not more than L/175 or 3/4 inch whichever is more stringent.
- B. Mechanical Strength: Capable of withstanding static loads in accordance with [ANSI/BIFMA X5.6](#).

2.3.2 Acoustic Attenuation

Sound Transmission Class (STC) rating of integrated interior assemblies shall be calculated in accordance with [ASTM E413](#), based on tests conducted in accordance with [ASTM E90](#).

2.3.2.1 Interior Walls Indicated as Acoustic

Provide completed assemblies with the following characteristics:

- A. Four inch solid wall: -50 STC.

B. Four inch single glazed wall: -35 STC.

C. Four inch double glazed wall: -43 STC.

2.3.3 Fire Resistance

Surface-Burning Characteristics:

A. Finish materials shall be tested in accordance with **ASTM E84** and **NFPA 286** as required by **ICC IBC**, 803.1.1.

Integrated Interior Assembly shall be approved for use by a qualified independent testing agency in Types I and II Construction in accordance with **ICC IBC** section 603.1 (2) and 603.1 (7).

2.3.4 Assembly UL Ratings

A. **UL 183**; Standard for Safety for Manufactured Wiring Systems.

B. **UL 498**; Standard for Safety for Attachment Plugs and Receptacles.

C. **UL 507**; Component Fans, Electric.

D. **UL 514A**; Standard for Safety for Metallic Outlet Boxes.

E. **UL 514B**; Standard for Conduit Cable and Fittings.

F. **UL 514C**; Standard for Safety for Non; Metallic Outlet Boxes, Flush; Device Boxes, and Covers.

G. **UL 723**; Standard for Test for Surface Burning Characteristics of Building Materials

2.4 STRUCTURE

2.4.1 One Sided Wall

Fully assembled non-bearing structural frame module with site installed finish panels on one side.

A. Reveal Type and Size: Classic 0.354 inches.

B. Material: Aluminum extrusions, 6063-T6 aluminum alloy classified as noncombustible in accordance with **ASTM E136** per **ICC IBC**, 703.5.1.

1. Thickness: As required to meet performance requirements.

C. Wall Thickness: actual 3.5 inch.

D. Top Track: Continuous, with intermittent breaks for pass through of building services or structural components.

E. Bottom Track: Integral with modular frames.

1. Provide frame bases with continuous adjustment mechanism for 1-1/2 inch height adjustment to accommodate floor slab variances.

2. Accessories: non-seismic carpet grippers.

- F. Vertical Element Spacing: As required to meet performance requirements within a minimum of 6 inches and a maximum of 48 inches.
- G. Provide cutouts and support brackets as required for electrical and communication pass through from frame to frame.
- H. Insulation: UltraTouch Recycled Denim treated with boric acid classified in accordance with [ASTM E84](#) per [ICC IBC](#), 603.1(2).

2.4.2 Two Sided Wall

Fully assembled non-bearing structural frame module with site installed finish panels on both sides.

- A. Reveal Type and Size: Classic 0.354 inches.
- B. Material: Aluminum extrusions, 6063-T6 aluminum alloy classified as noncombustible in accordance with [ASTM E136](#) per [ICC IBC](#), 703.5.1.
 - 1. Thickness: As required to meet performance requirements.
- C. Wall Thickness: Actual 4 inch.
- D. Top Track: Continuous, with intermittent breaks for pass through of building services or structural components.
- E. Bottom Track: Integral with modular frames.
 - 1. Provide frame bases with continuous adjustment mechanism for 1-1/2 inch height adjustment to accommodate floor slab variances.
- F. Accessories: non-seismic carpet grippers.
- G. Vertical Element Spacing: As required to meet performance requirements within a minimum of 6 inches and a maximum of 48 inches.
- H. Provide cutouts and support brackets as required for electrical and communication pass through from frame to frame.
- I. Insulation: UltraTouch Recycled Denim treated with boric acid classified in accordance with [ASTM E84](#) per [ICC IBC](#), 603.1(2).

2.4.3 Glazed Wall

Fully assembled non-bearing structural frame module with glass infill and Site assembled non-bearing structural frame module with glass infill.

- A. Reveal Type and Size: Classic 0.354 inches.
- B. Extrusion Profile: Rectilinear and Double Glazed "Evil Twin".
- C. Material: Aluminum extrusions, 6063-T6 aluminum alloy classified as noncombustible in accordance with [ASTM E136](#) per [ICC IBC](#), 703.5.1.
 - 1. Thickness: As required to meet performance requirements.
- D. Wall Thickness: Actual 4 inch.
- E. Top Track: Continuous, with intermittent breaks for structural

components.

F. Bottom Track: Integral with modular frames.

1. Provide frame bases with continuous adjustment mechanism for 1-1/2 inch height adjustment to accommodate floor slab variances.

2. Accessories: non-seismic carpet grippers.

G. Vertical Element Spacing: As required to meet performance requirements within a minimum of 6 inches and a maximum of 60 inches.

1. Vertical Element spacing may exceed 60 inches with manufacturer review and approval.

H. Glazing Finish Panel: Per Schedule Below.

I. Glazing Gasket Color: Silver.

2.4.4 Structure Exposed Finishes

Clear Anodized Aluminum: AAMA 611, AAM12C22A31, Class I

2.5 FINISH PANELS

2.5.1 Factory Finished Panel

Finish panels shall meet the finish classification requirement for the proposed location in the building.

2.5.1.1 Core Material

Medium Density Fiberboard Core (MDF).

A. Features:

1. No Added Formaldehyde MDF with Class C Flame spread rating of 150 or less per ASTM E84

B. 1/8 inch mass loaded vinyl adhered to back of panel for enhanced acoustic performance as scheduled.

2.5.1.2 Finish Material

Manufacturer standard options shall be classified in accordance with ASTM E84 as Class A per ICC IBC 803.1.2 unless indicated otherwise. See Finish Schedule below for additional information.

A. Chroma Coat (DC02) or equal to: Water based paint sprayed onto substrate.

1. Maximum Size: 48 x 120 inches.

B. WriteAway (MCF-#) or equal to: Dry Erase 3D laminate film vacuum formed to substrate.

1. Maximum Size: 46 x 120 inches.

2.5.1.3 Mounting

Face Mounted.

2.5.1.4 Thickness

Typical: 1/2 inch.

With integral base: 3/8 inch.

2.5.2 Glass Finish Panel

2.5.2.1 Glazing Material

Tempered glass (GLS-#): Architectural flat glass per **ASTM C1048**, Kind FT (fully tempered), Condition A (uncoated), Type 1, Class 1 (transparent), Quality q3. Complies with CPSC **16 CFR 1201** Category II per **ICC IBC**, 2015.2406.2.

A. Thickness: 1/4 inch and 3/8 inch (Double glaze area only).

B. Finish: Per Finish Schedule below.

2.5.2.2 Mounting

Center Mounted for glazed walls and doors and Double Glazed for "Evil Twin" Face Mounted Features:

A. Aluminum mounting rails to maintain alignment with adjacent finishes.

B. Maximum Size of 1/4 inch tempered glass: 60 x 120 inches.

2.6 DOORS AND FRAMES

Coordinate ADA, ANSI, Access Control and Fire Life Safety requirements with drawings and schedules prior to the development of shop drawings per Pre-Manufacture Submittal requirements.

2.6.1 Hardware Preparation and Reinforcement

Factory milled, reinforced, drilled and taped doors and frames by manufacturer to receive Integrated Hardware Components as scheduled.

A. Factory milled doors and frames with hinge locations and sizes as determined by integrated interior assembly manufacturer; including factory installed steel backer plates.

B. Access Control Components: Factory provided rough in for Site Integrated Components and integrated interior assembly manufacturer provided hardware.

2.6.2 Hollow Core Wood Doors

A. Operation: Swing.

B. Door Thickness: 1-11/16 inch.

C. Door Size: As indicated on Door Schedule.

D. Door Panel: Factory finished high density fiberboard faces over honeycomb core with solid wood edging.

E. Finish:

1. Wood Veneer: Reconstituted

a. Species: Per Finish Schedule below.

b. Grade: 2.

c. Grain Direction: Vertical

d. Sheen: Low

2.6.3 Door Frames

A. Architectural grade structural aluminum factory finished and integrated with wall structure.

B. Door frames capable of reconfiguration without part replacement or damage to wall components.

C. Frames are shipped knocked down and assembled on site.

D. Jambs shipped over length by 2 inches in height, for field cutting to suit opening height for proper alignment with adjacent frames.

E. Extrusion Profile: Rectilinear.

F. Configuration: As required by door operation or function.

G. Size: As required for doors sizes indicated on Door Schedule.

H. Standard Frame Depth: 4 inches.

1. Wrap Around frame: 4-3/4 inches.

I. Finish:

1. Clear Anodized Aluminum: AAMA 611, AAM12C22A31, Class I.

2.7 DOOR HARDWARE

Provide site integrated components in accordance with Division 08 Openings and Division 28 Electronic Safety and Security. All Hardware indicated in this section to be provided by the manufacturer or the manufacturers distribution partner and installed on site unless indicated otherwise.

2.7.1 General Door Hardware

A. Hinges: Stanley 4-1/2 x 4 inch, Butt Hinge F179. Four hinges per door, no exceptions.

B Rectilinear Bar Pull: 12 inches.

C. Floor Stops: Dome.

D. Acoustical Seals: Manufacturers Standard to accommodate door operation.

1. Type: Drop Seal.
2. Color: Silver.

2.7.2 Hardware Finishes

BHMA Standard finishes provided as follows unless indicated otherwise:

- A. 630 - Satin Stainless Steel: pulls.

2.7.3 Keying

Provide in accordance with Section 08 71 00 DOOR HARDWARE.

2.8 ELECTRICAL

2.8.1 Copper Conductors and Cables

2.8.1.1 Armored Cable (Type AC)

Multi conductor Type AC with 3, 5 or 8 insulated copper conductors in size #12 AWG factory assembled from the pre-terminated device with an additional 10 feet extending from the top or bottom edge of the frame.

Features:

- A. Extender Cable: Quick connect pre-terminated at both ends modular system for wiring modular devices per shop drawings.
- B. Power Whip: Manufacturer standard modular connector at one end and Pig Tail conventional hard wire connection at opposite end for connection to base building branch circuit conductor per drawings and Division 26 requirements.

2.8.1.2 Flexible Conduit Cable

Manufacturers standard UL listed multi conductor fabricated of lightweight NEC Type FMC, high-strength aluminum alloy with 3, 5, or 8 insulated copper conductors in size #12 AWG factory assembled from the pre-terminated device.

Features:

- A. Extender Cable: Quick connect pre-terminated at both ends modular system for wiring modular devices per shop drawings.
- B. Power Whip: Manufacturer standard modular connector at one end and Pig Tail conventional hard wire connection at opposite end for connection to base building branch circuit conductor per drawings and Division 26 requirements.

2.8.1.3 Modular Splitter

Modular cable quick connect device for power distribution to be secured to wall, floor or above ceiling per shop drawings.

2.8.2 Conduit

2.8.2.1 Flexible Metal Conduit

Provide UL listed flex conduit per ANSI/UL-1, NEC Type FMC fabricated of lightweight, high-strength aluminum alloy. Refer to Division 26, 27, and 28 for additional conduit raceway and pull-string requirements.

2.8.3 Outlet Junction and Pull Boxes

Manufacturers standard back box and mounting bracket, factory mounted.

2.8.4 Face Plates and Trim Rings

2.8.4.1 Manufacturer Standard Faceplates

Factory provided, factory installed.

A. Color: White.

B. Construction: 2 adjustment screws at top and bottom for flush installation.

2.8.4.2 Manufacturer Standard Trim Rings

Factory provided, site installed.

A. Color: White

2.8.4.3 Conventional Faceplates

Provide in accordance with Division 26 requirements.

2.8.4.4 Engraving and Identification

Provide in accordance with Division 26 requirements.

2.8.5 Wiring Devices

Pre-terminated 20 amp receptacle factory assembled in outlet junction box.

A. Color: White.

B. Ground Pin Orientation: Down.

C. USB charging port as located per drawings: Type A, 5 amp, 5 volt.

2.9 COMMUNICATIONS

2.9.1 Outlet Junction and Pull Boxes

Modular back box and mounting bracket: Factory mounted.

2.9.2 Horizontal Cabling

Provide in accordance with Division 27 requirements.

2.9.3 Face Plates and Trim Rings

2.9.3.1 Modular Faceplates

Factory provided, factory installed.

A. Color: White

B. Construction: 2 adjustment screws at top and bottom for flush installation.

2.9.3.2 Modular Trim Rings

Factory provided, site installed.

A. Color: White.

2.9.3.3 Conventional Face Plates

Provide in accordance with Division 27 requirements.

2.9.3.4 Engraving and Identification

Provide in accordance with Division 27 requirements.

2.10 SITE INTEGRATED COMPONENTS

Door Hardware: Per Division 08 and 28

2.11 ACCESSORIES

All accessory materials required by the manufacturer for a warrantable installation of the installed products in a manner that meets the Performance and Design Criteria. Manufacturer's accessories required by the project:

2.11.1 Manufacturer Standard Wall Base

Mechanically fastened recessed and adjustable Santoprene base or equal to.

A. Color: Silver.

2.11.2 Manufacturer Standard Ceiling Trim

Mechanically fastened recessed and adjustable to accommodate up to a 1/2 inch gap between integrated interior assembly and base building elements

A. Color: Silver.

2.11.3 Ceiling Perimeter Hanger

Manufacturer provided 1-1/8 inch exposed perimeter edge angle extrusion for supporting lay-in panel ceiling systems.

2.11.4 Opti-Filler (or equal to) Pressure Fit Gaskets

Wall Panel Seal at Reveal: Provide extrusions and co-extrusions to fill voids between finish panels, at ceiling connections, and at base building connections as required. (both horizontal and vertical gaskets). Coordinate

final locations of gaskets with manufacturer through the shop drawing process prior to procurement of fabrication.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify existing conditions meet the manufacturer's requirements before starting work.

1. Floor Levelness:

- a. Contiguous wall lengths less than 40 feet: Base building sub-floor shall be level within 3/8 inch over 10 feet.
- b. Contiguous wall lengths greater Than 40 feet: Base building sub-floor shall not exceed a maximum total floor flatness deviation greater than 1-1/2 inches.

2. Vertical leading edge of assembly structure to base building: Where partitions attach to adjacent walls, the finish face shall be plum within 1/2 inch over 10 feet.

3. Top of assembly structure to base building: Where partitions attach to bulkhead or soffit, the finish face shall be level within 1/2 inch over 10 feet.

4. Lay in Ceilings: Where partitions attach to lay-in ceiling grid, the grid shall be level within 1/4 inch over 10 feet.

- B. Verify products have been stored, and will be installed, in accordance with project's Construction Indoor Air Quality Management Plan specified in Section 01 33 29 - SUSTAINABILITY REPORTING.

- C. Verify field or hold-to control dimensions before fabrication of integrated interior assemblies. Coordinate fabrication schedule with construction schedule and progress to avoid delay in the work.

- D. Examine all adjoining work including work by others.

- E. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Prepare surfaces to receive work in accordance with manufacturer's instructions.

- B. Locations to receive integrated interior assemblies shall be inspected for compliance with manufacturers requirements.

- C. Survey floor to determine the nature of floor level and determine where special conditions exist beyond manufacturer's standard leveling capabilities of 1-1/2 inch total variation in floor level. Prepare sub-floor per Division 03.

- D. Field conditions and pre-existing installations by others which may adversely affect installation or exceed the manufacturers limitations shall be corrected before installing walls.

3.3 INSTALLATION

Install all materials in accordance with manufacturer's instructions based on conditions present and pre-installation meeting. All miscellaneous installation materials required to comply with EQ credit: Low Emitting Materials, Option 1 in accordance with Section 01 33 29 SUSTAINABILITY REPORTING. All building services shall be installed and connected to the base building systems by licensed subtrades. All building services shall be inspected by authorized trade representatives and Authority Having Jurisdiction in the presence of a manufacturer representative. Coordinate with all affected parties as required.

3.3.1 Doors and Frames

Install doors to close against walls without gaps. Install doors to open and close smoothly.

3.3.2 Electrical

Electrical testing requirements provided in accordance with Division 26 Electrical. Inspect all electrical installations as part of conventional electrical scope prior to installation of finish panels. Installation sequence as determined by the certified installer and coordinated with the General Contractor based on project conditions.

3.3.3 Communications

Communications testing requirements provided in accordance with Division 27 Communications.

3.4 FIELD QUALITY CONTROL

3.4.1 Electrical

All building services shall be inspected by authorized trade representatives and the local building authority prior to installation of finishing panels. Refer to Shop Drawings for location of components incorporated into prefabricated walls. In general, installation locations and dimensions are installed a typical distance from prefabricated wall edges, refer to Shop Drawings for more information.

3.4.2 Communications

Install communications systems in accordance with Division 27 requirements.

3.5 ADJUSTING

Adjust and lubricate hardware for proper operation in accordance with manufacturer's instructions.

3.5.1 Doors and Frames

Adjust for smooth and balanced door movement in accordance with manufacturer's instructions. Adjust and lubricate hardware for proper operation.

3.6 CLEANING

Dispose of all waste material in accordance with Section 01 74 19 CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL and project's Waste Management Plan. Upon completion of installation clean finishes in accordance with the manufacturer's instructions. Avoid alkaline or abrasive agents. Avoid scratching or marring finishes.

3.7 PROTECTION

Protect installed work as required by the manufacturer to maintain product performance, design criteria and warranty.

3.8 DEMONSTRATION

Manufacturer's representative will be responsible to provide general product training to the Owner or their outsourced operations team at time of installation as well as conduct a comprehensive training session(s) to convey the methodology, and assembly of the walls to sustain general operational maintenance by the Owner's personnel with clearance over the facilities lifetime.

3.9 FINISH SCHEDULE

A. (ANO-M1) Anodized:

1. Type: Manufacturer Standard.
2. Color: Clear.

B. (PNT-M2) Chroma Coat Paint, or equal to:

1. Type: Manufacturer Standard.
2. Manufacturer: DIRT T.
3. Grade: 1.
4. Color Name: FOG DC02.

C. (VEN-M13) Wood Veneer:

1. Type: Reconstituted.
2. Grade: 2.
3. Species: Very Maple Flat Cut.
4. Sheen: Low.
5. Grain Direction: Vertical, Flat.
6. Notes: Used for doors.

D. (GLS-M4) Glass:

1. Type: Tempered.
2. Color/Finish: Manufacturer Standard Clear.

3. Thickness: 6mm.

E. (GLS-M18) **Glass:**

1. Type: Tempered.

2. Color/Finish: Manufacturer Standard Clear.

3. Thickness: 10mm.

4. Note: Glass for double glazed wall in Blue OPS Area.

F. Finish Panels:

1. (MCF-M11): **WriteAway**, or equal to.

a. Type: Manufacturers Standard Solid Color.

b. Color/Pattern Manufacturer: DIRT T or equal to.

c. Color: Digital White

d. Sheen: Gloss

3.10 DOOR HARDWARE SCHEDULE

A. (DHW - 1):

1. (32) 12" x 6" C to C Bar Pull 630 Finish by DIRT T, or equal to,
(center location at 3'-8 ¾" AFF)

-- End of Section --