

SECTION 12 52 00– FURNITURE

PART 1 - GENERAL

1.1 SUMMARY

- A. Provide the work of this Section in accordance with requirements of the Contract Documents.
- B. This Section includes the following furniture packages including:
 - 1. Arconas ancillary furniture.
 - 2. Arconas beam seating furniture.
 - 3. GL Seaman furniture.
 - 4. KI furniture.
 - 5. Miscellaneous furniture.
- C. Related Requirements:
 - 1. Division 12, Section 12 52 00.01 “Furniture Package”.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Sustainable Design Submittals:
 - 1. Building Product Disclosure and Optimization - Sourcing of Raw Materials:
 - a. Extended Producer Responsibility (EPR): Submit documentation indicating that manufacturers have a take back or recycling program for the product purchased.
 - b. Bio-based Materials: For bio-based products and materials other than wood, submit documentation of product data and testing results in compliance with LEED requirements.
 - c. Wood Products: Submit documentation of Forest Stewardship Council or USGBC equivalent certification.
 - d. Materials Reuse: For products that are salvaged, refurbished, or reused, include a statement indicating costs for each product.
 - e. Recycled Content: For products having recycled content, indicate percentages by weight of post-consumer and pre-consumer recycled content.
 - 1) Include statement indicating costs for each product having recycled content.
 - f. Regional Materials: For products that are required to comply with requirements for regional materials, indicating location of material manufacturer and point of extraction, harvest, or recovery for each raw material.
 - 1) Include statement indicating distance to Project, cost for each regional material and the fraction by weight that is considered regional.
 - 2. Indoor Environmental Quality, Low Emitting Materials: Building Products must be tested and compliant with the California Department of Public-Health (CDPH) Standard Method V1.1-2010 or v1.2 2017, using the applicable exposure scenario.

- a. For paints, and coatings, wet applied, include printed statement of VOC content, showing compliance with the applicable VOC limits of the California Air Resources Board (CARB) 2007, Suggested Control Measure for Architectural Coatings or the South Coast Air Quality Management District (SCAQMD) Rule 1113-2011.
- b. Adhesives and Sealants: For wet applied on-site products, submit printed statement showing compliance with the applicable chemical content requirements of SCAQMD Rule 1168, effective July 1, 2005 and rule amendment date of January 7, 2005.
- c. Alternative tests for VOC above include ASTM D2369-10; ISO 11890 part 1; ASTM D6886-03; or ISO 11890-2.
- d. Methylene Chloride and perchloroethylene may not be added to paints, coating, adhesive or sealants
- e. Composite Wood: Submit documentation showing that wood used in the project has low formaldehyde emissions that meet the California Air Resources Board ATCM for formaldehyde requirements for ultra-low emitting formaldehyde (ULEF) resins or no added formaldehyde resins.

1.3 INFORMATIONAL SUBMITTALS

A. Sustainable Design Submittals:

- 1. Building Product Disclosure and Optimization - Environmental Product Declarations
 - a. Submit product specific type III EPDs or Industry wide (generic) EPDs, USGBC approved program declaration or products with a publicly available, critically reviewed life-cycle assessment conforming to ISO 14044 that have at least a cradle to gate scope.
- 2. Building Product Disclosure and Optimization - Material Ingredients
 - a. Material Ingredient Reporting: Submit documentation confirming chemical inventory of products to at least 0.1 % (1000ppm) with at least one of the following:
 - 1) Submit published manufacturer inventory of ingredients identified by name and Chemical Abstract Service Registration Number (CASRN)
 - 2) Submit documentation that product has been certified as Cradle-to-Cradle v3 at the Bronze Level or better
 - 3) Submit Declare product label indicating that all ingredients have been disclosed down to 1000 ppm or designated as Red List Free or Declared
 - 4) Living Product Challenge
 - 5) Product Lens Certification
 - 6) USGBC approved program.
 - b. Material Ingredient Optimization: Submit documentation confirming chemical inventory of products to at least 0.01 % (100ppm) and/or that has a compliant material ingredient optimization report with at least one of the following:
 - 1) Submit GreenScreen V1.2 Benchmark: Third party report prepared by a licensed GreenScreen List Translator, or a full GreenScreen Assessment.
 - 2) Submit third-party verified documentation that product has been certified as Cradle-to-Cradle v3 at the Bronze Level or better
 - 3) Submit third-party verified Cradle to Cradle v3 Material Health certificate at the Bronze Level or better
 - 4) Submit third-party verified Declare product label indicating that all ingredients have been disclosed down to 100 ppm

- 5) Submit third-party verified documentation that product is Living Product Challenge certified with a Red List Free or LBC Red List Free Declare label.
- 6) Submit documentation that product has a manufacturer prepared action plan with material inventory to at least 1000 ppm.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance Instructions: Furnish maintenance instructions for each item specified for use by the Owner after acceptance of the Work. . Provide product data for care products used or recommended by installer/fabricator and names, addresses and telephone numbers of local sources for products.

1.5 QUALITY ASSURANCE

- A. Fabricator Qualifications: Approved by American Airlines, Refer to furniture packages appended to this Section.
- B. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.
- C. Mockup: Full-size panel, of each type, anchored to wall surface with back lighting system.
 1. Mockup shall function to demonstrate light temperature and light dimming capabilities to achieve optimum color temperature and lighting levels, prior to final installation.
 - a. Provide fully function lighting control source equivalent to that intended for final installation.
 - b. Mockup shall demonstrate proposed location of LED Driver; LED Driver location shall be hidden from view.
 2. Build room corner mockups of the Gate and Boarding area to be constructed in the field include the following:
 - a. Magnetic base stanchions **STN-01**.
 3. Build room corner mockups of the Gate and Boarding area to be constructed in the field include the following:
 - a. Carpet tile.
 - b. Transitions to terrazzo flooring.
 - c. Ceiling
 - d. Lighting in accordance with Division 26.
 - e. Gate counter.
 - f. Furniture.
 4. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 5. Subject to Architect approval, mockup components maybe reused in final installation.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Protect furniture during transit, delivery, storage, and handling to prevent damage, soilage, and deterioration.

- B. Do not deliver furniture until painting and similar operations that could damage materials and finishes have been completed in installation areas. If furniture must be stored in other than installation areas, store only in areas where environmental conditions comply with requirements specified in "Field Conditions" Article.

1.7 FIELD CONDITIONS

- A. Environmental Limitations: Do not deliver or install furniture until building is enclosed, wet work is complete, and HVAC system is operating and will maintain temperature and relative humidity at occupancy levels during the remainder of the construction period.

PART 2 - PRODUCTS

2.1 FURNITURE

- A. Refer to Furniture Package appended to this Section.

2.2 FABRICATION, GENERAL

- A. Complete fabrication, including assembly, finishing, and hardware application, to maximum extent possible, before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.
- B. Shop cut openings, to maximum extent possible, to receive hardware, appliances, plumbing fixtures, electrical work, and similar items

2.3 SHOP FINISHING

- A. Factory finish furniture.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Condition furniture to average prevailing humidity conditions in installation areas before installation.

3.2 INSTALLATION

- A. Install furniture level, plumb, true, and straight.
- B. Hardware Adjustment: Adjust and lubricate operable hardware according to hardware manufacturer's written instructions for proper operation.

3.3 ADJUSTING AND CLEANING

- A. Repair damaged and defective furniture, where possible, to eliminate functional and visual defects; where not possible to repair, replace furniture.
- B. Clean, lubricate, and adjust hardware.
- C. Touch up shop-applied finishes to restore damaged or soiled areas.

END OF SECTION