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This MANU-SPEC® utilizes the Construction Specifications Institute (CSI) *Project Resource Manual* (PRM), including *MasterFormat*™, *SectionFormat*™ and *PageFormat*™. A MANU-SPEC is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets [ ]; delete optional text in final copy of specification. Specifier Notes precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate product model numbers, styles and types are used in Specifier Notes and in the specification text Article titled "Acceptable Material." Metric conversion, where used, is soft metric conversion.

This MANU-SPEC specifies framing and trim components for demountable partition systems as manufactured by NxtWall. Revise MANU-SPEC section number and title below to suit project requirements, specification practices and section content. Refer to CSI *MasterFormat* for other section numbers and titles.

SECTION 10 22 19
DEMOUNTABLE PARTITIONS

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes: This Section specifies framing and trim components for demountable partition systems.

Specifier Note: Revise Paragraph below to suit project requirements. Add section numbers and titles per CSI *MasterFormat* and specifier's practice.

B. Related Requirements:

Specifier Note: Include in this Paragraph only those sections and documents that directly affect the work of this section. If a reader of this section could reasonably expect to find a product or component specified in this section, but it is actually specified elsewhere, then the related section number(s) should be listed in the Subparagraph below. Do not include Division 00 documents or Division 01 sections since it is assumed that all technical sections are related to all project Division 00 documents and Division 01 sections to some degree. Refer to other documents with caution since referencing them may cause them to be considered part of the Contract.

1. Section 06 26 00 Board Paneling: Medium density fiberboard.
2. Section 07 21 00 Thermal Insulation.
3. Section 08 13 16 Aluminum Doors.
4. Section 08 14 00 Wood Doors.
5. Section 08 71 00 Door Hardware.
6. Section 08 80 00 Glazing.
7. Section 09 29 00 Gypsum Board.
8. Section [_____].

1.02 REFERENCES

Specifier Note: Paragraph below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain References Paragraph when specifying products and installation by an industry reference standard. List retained standard(s) referenced in this section alphabetically. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Contract Conditions Section 01 42 00 - References may establish the edition date of standards. This Paragraph does not require compliance with standard(s). It is a listing of all references used in this section. Only include here standards that are referenced in the body of the specification in PARTS 1, 2 and/or 3. Do not include references to building codes at any level.

A. Reference Standards:
   1. American Architectural Manufacturers Association (AAMA):
      a. AAMA 611 Voluntary Specification for Anodized Architectural Aluminum.
   2. ASTM International (ASTM):
      a. ASTM E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
      b. ASTM E413 Classification for Rating Sound Insulation.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Coordination: Coordinate work of this Section with work of other trades for proper time and sequence to avoid construction delays. Comply with Section [01 31 00 - Project Management and Coordination].

Specifier Note: Add additional text to specify unusual or detailed coordination requirements affecting the work results of this Section.

1. [_____].

B. Preinstallation Meetings: Conduct preinstallation meeting [one week] prior to commencing [work of this Section] [and] [on-site installations] to verify project requirements, substrate conditions and coordination with other building subtrades, and to review manufacturer's installation instructions and manufacturer's warranty requirements. Comply with Section [01 31 19 - Project Meetings].

Specifier Note: Add additional text to describe requirements for meetings to coordinate products and techniques and to sequence related work for sensitive and complex items.

1. [_____].

C. Sequencing: Sequence work of this section in accordance with Section [01 12 16 - Work Sequence] [and manufacturer's written recommendations for sequencing construction operations].

Specifier Note: Specify additional text as required to describe the particular sequence of events required to coordinate work that must be done in sequence with, or at the same time as, work in another section.

1. [_____].

D. Scheduling: Schedule work of this Section in accordance with Section [01 32 13 - Scheduling of Work].

Specifier Note: Specify additional text to include requirements for coordinating work that requires unusual scheduling with work of other sections.

1. [_____].

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Contract Conditions and Section 01 33 00 - Submittal Procedures.

1.04 ACTION SUBMITTALS

A. General: Submit listed submittals in accordance with Contract Conditions and Section [01 33 00 - Submittal Procedures].

B. Product Data: Submit specified products as follows:
   1. Manufacturer's product data, including manufacturer's SPEC-DATA product sheet.
   2. Catalog pages illustrating products to be incorporated into project.
   3. Material Safety Data Sheets (MSDS).

C. Shop Drawings: Indicate information on shop drawings as follows:
   1. Layout of demountable partitions with plans and elevations that show solid panels, glazed panels, and doors.
   2. Details of partition construction indicating framing, trim, glazing gasket, glass, panel, and insulating materials. Indicate finish(es) and colors of framing, trim, and glazing gasket components.
   3. Details of anchorage to adjacent construction.

Specifier Note: Samples are full-size actual products intended to illustrate the products to be incorporated into the project. Sample submittals are commonly necessary for such characteristics as colors, textures and other appearance issues.

D. Samples: Submit as follows:
   1. Example: [Full size] [___ inches × ___ inches (___ × ___ mm)] samples of [_____].

Specifier Note: Use the following Paragraph when high value samples are submitted.

   2. [_____] [Owner] [Architect] [Consultant] will return samples to Contractor for incorporation in work.

1.05 INFORMATION SUBMITTALS

A. General: Submit listed submittals in accordance with Contract Conditions and Section [01 33 00 - Submittal Procedures].

B. Source Quality Control: Submit documentation verifying that components and materials specified in this Section are from single manufacturer.

C. Manufacturer's Instructions: Submit manufacturer's storage and installation instructions.

Specifier Note: Coordinate with Field Quality Control in PART 3. When manufacturer's services are specified during construction operations to verify installation, include following Paragraph for the submittal of instructions and reports. If no field inspections are required, delete the following Paragraph.

D. Manufacturer's Reports: Manufacturer's field reports specified.

E. Qualification Statements:
   1. Submit letter of verification for Manufacturer's Qualifications.
   2. Submit letter of verification for Installer's Qualifications.

1.06 CLOSEOUT SUBMITTALS

A. General: Submit listed submittals in accordance with Contract Conditions and Section [01 33 00 - Submittal Procedures].

B. Operation and Maintenance Data:
   1. Submit operation and maintenance data for installed products in accordance with Section [01 78 23 - Operation and Maintenance Data]. Include:

Specifier Note: Edit or expand list of operation and maintenance data submittal inclusions to suit project requirements.

      a. Manufacturer's instructions detailing maintenance requirements.
      b. Parts catalog giving showing complete list of available parts.
      c. Replacement parts with cuts and identifying numbers.

C. Warranty Documentation: Submit warranty documents specified.

1.07 QUALITY ASSURANCE

A. Qualifications:
   1. Manufacturer:
      a. [5] years experience manufacturing components similar to or exceeding requirements of project.

b. Having sufficient capacity to produce and deliver required materials without causing delay in work.

c. Capable of providing field service representation during construction.

2. Installer: Acceptable to the manufacturer, experienced in performing work of this section and has specialized in installation of work similar to that required for this project.

Specifier Note: Retain the following Paragraph when certification related to sustainability submittals is a project requirement.

B. Sustainability Standards Certification: Provide certification for [_____] materials certified by [certification organization's name] in accordance with [certification organizations standard].

Specifier Note: If a mock-up is required, retain Paragraph below.

C. Mock-Up: Construct mock-up where [indicated] [directed] by [Owner] [Architect] [Consultant] in accordance with Section [01 43 00 - Quality Assurance].

1. Construct showing [section subject matter] work.
2. Dimensions and Process: Construct to [___ feet × ___ feet (___ × ___ m)] using proposed procedures, colors, textures, finishes and quality of work.
3. Purpose: To judge quality of work, substrate preparation, operation of equipment and material application.
4. Locate [where directed] [where indicated].
5. Do not proceed with work prior to receipt of written acceptance of mock-up.
6. When accepted, mock-up will demonstrate minimum standard of quality required for this work. [Approved mock-up may [not] remain part of finished work.] [Remove mock-up and dispose of materials when no longer required and when directed by [Owner] [Architect] [Consultant].]

1.08 DELIVERY, STORAGE & HANDLING

A. Delivery and Acceptance Requirements:

1. Deliver material in accordance with Section [01 61 00 - Common Product Requirements] and in accordance with manufacturer's written instructions.
2. Deliver materials in manufacturer's original packaging with identification labels intact and in sizes to suit project.

B. Storage and Handling Requirements:

1. Store materials protected from exposure to harmful weather conditions and at temperature conditions recommended by manufacturer.

C. Packaging Waste Management:

Specifier Note: The disposal of packaging waste into landfill sites demonstrates an inefficient use of natural resources and consumes valuable landfill space. Specifying appropriate packaging and construction waste management and disposal procedures may contribute to points required for USGBC's LEED® construction project certification.

Specifier Note: Include the following Subparagraphs to specify information that will provide direction to the Contractor for the disposal of construction waste materials using environmentally responsible methodology other than landfill resources.

1. Separate waste materials for [reuse] [and] [recycling] in accordance with [Section 01 74 19 - Construction Waste Management and Disposal].

Specifier Note: USGBC's LEED certification includes credits for the diversion of construction waste from landfill. Diversion can be tracked by either weight or volume but must be consistent for all materials. Manufacturer may reclaim packaging and delivery materials for recycling.

2. Remove packaging materials from site and dispose of at appropriate recycling facilities.
3. Collect and separate for disposal [paper] [plastic] [polystyrene] [corrugated cardboard] packaging material [in appropriate onsite bins] for recycling.
4. Fold metal and plastic banding, flatten and place in designated area for recycling.

Specifier Note: Add additional Subparagraphs to include pallets, crates, padding and other packing materials that are typically

associated with the specified products.

5. Remove:
   a. Pallets from site [and return to supplier or manufacturer].
   b. [_____].

Specifier Note: Coordinate Article below with Contract Conditions and with Section 01 78 36 - Warranties.

1.09 WARRANTY

A. Warranty: Refer to Contract Conditions and Section [01 78 36 - Warranties] for project warranty provisions.

B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and does not limit, other rights Owner may have under other Contract Documents.
   1. Warranty Term: 10 years commencing on date of substantial completion.

Specifier Note: Include statements specific to this Section that supplement or extend warranties contained in the Contract Conditions.

C. Special Warranty:
   1. Warranty Term: [_____] commencing on date of substantial completion.

PART 2 PRODUCTS

Specifier Note: Retain Article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal," "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.01 DEMOUNTABLE PARTITIONS

Specifier Note: Include in the following Paragraph manufacturer's name, address, phone number, fax number, e-mail address and website URL.

A. Manufacturer: NxtWall.
   1. Contact: 5200 S. Sprinkle Road, Kalamazoo, MI 49002; Phone: 269-488-2752; Fax: 269-488-2754; E-mail: info@nxtwall.com; Website: www.nxtwall.com.

Specifier Note: Substitution procedures must either be in the Contract Conditions or in Section 01 25 00 - Substitution Procedures. Do not include substitution procedures here.

2. Single Source Responsibility: Provide components and materials specified in this section from a single manufacturer.
3. Substitution Limitations:
   a. Substitutions: [In accordance with [Contract Conditions] [Section 01 25 00 - Substitution Procedures] [No substitutions permitted].

Specifier Note: Include an overall description of the system, assembly, product or material. Include required properties or characteristics that do not obviously belong under other titles. Examples: Configuration, size and color.

B. Description:

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section. General statements to comply with a particular code are typically addressed in Contract Conditions and Section 01 41 00 - Regulatory Requirements. Repetitive statements should be avoided.

1. Regulatory Requirements:

a. In accordance with Section [01 41 00 - Regulatory Requirements].
b. [_____].

2. Sustainability Characteristics:
   a. [_____].
3. Compatibility:
   a. Ensure components and materials are compatible with specified accessories and adjacent materials.

Specifier Note: Performance characteristics are usually stated with some form of evaluation or verification. Performance usually, but not universally, applies to systems and assemblies. Performance criteria can include structural, safety, fire resistance, vapor retardancy, acoustical, thermal, operational capacity and durability.

Specifier Note: The term “Design Criteria” is used when describing the intended characteristics of a product for which the Contractor is assigned design responsibility.

C. Performance Criteria:

Specifier Note: STC will vary with system components used, see manufacturer’s information on tested systems.

1. STC (ASTM E90, calculated in accordance with ASTM E413): [_____].

D. Flex Series:

1. Wall Depth: 3”1/16
2. Glass Panels (Framed)
   a. Clear Tempered.
   b. {1/4" Single Pane}{3/8” Single Pane}{¼” Double Pane}{¼”-3/8” Double Pane Combo}
   c. {Full Height}{Segmented}
3. Solid Panels (Framed)
   a. {Vinyl Wrapped Gypsum}{Laminated Particleboard}{Tackable Fabric}{Magnetic Whiteboards}
   b. {Full Height}{Segmented}

E. View Series:

1. Wall Depth: 3”1/16
2. Glass Panels (Frameless)
   a. Clear Tempered
   b. {3/8” Single Pane}{½” Single Pane}

H. Finishes:

1. Powder Coat: Manufacturer’s standard.
   a. Color: [MS Silver] [Black] [Brown] [_____] [As indicated on the drawings].
2. Anodic (AAMA 611): Class II, coating not less than 0.4 mils thick.
   a. Color: [Clear] [_____] [As indicated on the drawings].

2.02 ACCESSORIES

A. Glazing Bead: Manufacturer’s standard PVC.
   1. Color: [Grey] [Black] [White] [Tan] [Taupe] [_____] [As indicated on the drawings].

B. Acceptable Material: [ ]

2.03 SOURCE QUALITY CONTROL

Specifier Note: Describe each test to be conducted. Include test method, sampling requirements, observation by independent

authorities (if any) and reporting requirements. Describe each inspection to be conducted, including method, personnel and reporting requirements.

A. Tests and Inspections:

Specifier Note: Describe specific requirements for coordinating special inspections, such as providing access to authorities having jurisdiction or other third parties.

1. Manufacturer Services.
2. [_____].

PART 3 EXECUTION

3.01 EXAMINATION

A. Verification of Conditions: Verify that conditions of substrates previously installed under other sections or contracts are acceptable for product installation in accordance with manufacturer's instructions prior to demountable partition installation.
   1. Inform [Owner] [Architect] [Consultant] of unacceptable conditions immediately upon discovery.
   2. Proceed with installation only after unacceptable conditions have been remedied [and after receipt of written approval from [Owner] [Architect] [Consultant]].
   3. [_____].

Specifier Note: Specify actions required to prepare the surface, area or site for incorporation of the section's primary products. Describe requirements for exposure or removal of existing assemblies, components, products or materials.

3.02 PREPARATION

Specifier Note: Specify preparatory work required prior to installation/application/erection of primary products.

A. Ensure structure or substrate is adequate to support demountable partitions.

B. Surface Preparation: Prepare surface in accordance with manufacturer's written recommendations and coordinate with Section [01 71 00 - Examination and Preparation].
   1. [_____].

Specifier Note: Specify preparatory work, such as selective removal of existing work, required prior to execution of new work. Specify requirements for exposure or removal of existing assemblies, components, products or materials.

C. Demolition/Removal:
   1. [_____].

3.03 INSTALLATION

A. Coordinate installation of demountable partitions in accordance with [01 73 19 - Installation].

B. Coordinate demountable partition work with work of other trades for proper time and sequence to avoid construction delays.

C. Install demountable partitions plumb and level.

D. Accurately fit, align, securely fasten and install free from distortion or defects.

Specifier Note: Specify how existing work is to be repaired, restored and cleaned.

3.04 [REPAIR] / [RESTORATION]

A. Coordinate [repair] [restoration] of [systems] [components] [products] in accordance with Section [01 73 13 - Application].
   1. [_____].

3.05 FIELD QUALITY CONTROL

Specifier Note: Specify requirements for quality control and related quality assurance for onsite activities and installed materials, manufactured units, equipment, components and accessories.

A. [Field] [Site] Tests, Inspection: Coordinate [field] [site] test with Section [01 45 00 - Quality Control].
   1. [_____].

Specifier Note: Specify requirements if manufacturers are to provide field quality control with onsite personnel for instruction or supervision of product installation, application, erection or construction. Manufacturers' field reports are included under PART 1, Submittals.

B. Manufacturer Services:

Specifier Note: Use the following Subparagraphs only when manufacturer's field services are provided and are required to verify the quality of the installed components. Establish the number and duration of periodic site visits required by manufacturer and specify below. Consult manufacturer for services required. Delete if field services are not required.

1. Coordinate manufacturer's services with Section [01 45 00 - Quality Control]. Have manufacturer review work involved in handling, installation/application, protection and cleaning of product[s] and submit written reports in acceptable format to verify compliance of work with Contract.
2. Manufacturer's Field Services: Provide manufacturer's field services consisting of product use recommendations and periodic site visits for product installation inspection in accordance with manufacturer's instructions.
3. Schedule site visits to review work at stages listed:
   a. After delivery and storage of products and when preparatory work on which work of this Section depends is complete, but before installation begins.
   b. [Twice] during progress of work at [25 percent] and [60 percent] complete.
   c. Upon completion of work, after cleaning is carried out.
4. Obtain reports within [three] days of review and submit immediately to [Owner] [Architect] [Consultant].

3.06 ADJUSTING

A. Adjust components and systems for correct function and operation in accordance with manufacturer's written instructions. Coordinate with Section [01 75 00 - Starting and Adjusting].

B. Lubricate moving parts to operate smoothly and fit accurately.

C. [_____].

3.07 CLEANING

A. Perform cleanup in accordance with Section [01 74 00 - Cleaning and Waste Management] and Section [01 74 13 - Progress Cleaning].

B. Upon completion, remove surplus materials, rubbish, tools and equipment in accordance with Section [01 74 23 - Final Cleaning].

Specifier Note: Specify special measures needed to minimize waste, collect recyclable waste and dispose of or recycle field-generated construction waste created during demolition, construction or final cleaning.

C. Waste Management:
   1. Coordinate recycling of waste materials with [01 74 19 - Construction Waste Management and Disposal].
   2. Collect recyclable waste and dispose of or recycle field generated construction waste created during demolition, construction or final cleaning.
   3. Remove recycling containers and bins from site.
   4. [_____].

Specifier Note: Specify protection methods completed after installation, but prior to acceptance by the owner. Protection of surrounding areas and surfaces during application or installation is included under PART 3, Preparation. Include only statements unique to this Section.

Specifier Note: Coordinate the following Article with Section 01 76 00 - Protecting Installed Construction.

3.08 PROTECTION

A. Protect installed product from damage during construction in accordance with Section [01 76 00 - Protecting Installed Construction].

B. Repair damage to adjacent materials caused by [insert section subject matter] installation.

C. [_____].

Specifier Note: Specify attachments such as schedules, tables, illustrations or forms in this location if they are not incorporated directly within the specification text.

3.09 ATTACHMENTS

Specifier Note: Schedules are sometimes placed in the specifications rather than on the drawings. Include schedules that indicate item/element/product/equipment, location and other coordinating data.

A. Schedules:
   1. [_____].

END OF SECTION