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| This guide specification was prepared utilizing 3-part format recommended by the Construction Specifications Institute (CSI), and generally incorporates recommendations from their SectionFormat®/Page Format®, and MasterFormat®, latest Editions, insofar as practicable.Carefully review and edit the text to meet the Project requirements and coordinate this Section with the remainder of the Specifications and the Drawings. Where bracketed text is indicated, e.g. [text], make appropriate selection and delete the remainder of text within additional brackets, highlighting, and bold face type, if any.Consult the manufacturer for assistance in editing this guide specification for specific Project applications where necessary.This Specification was current at the time of publication but is subject to change. Please confirm the accuracy of these specifications with the manufacturer prior to use. Shape  Description automatically generated with medium confidence |

 **SECTION 08 34 73**

 **SOUND-RATED ACCESS PANELS AND FRAMES**

**PART 1 - GENERAL**

**1.01 SUMMARY**

A. Section Includes:

*SPECIFIER: Revise subparagraphs below to suit Project requirements.*

1. Sound rated access panels and frames for walls.

2. Accessories.

B. Related Requirements:

1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

*SPECIFIER: Revise section numbers and titles in subparagraphs below per CSI MasterFormat and Project requirements.*

*SPECIFIER: Delete Section 01 21 00 - Allowances if locations are clearly shown on the Drawings and sizes are either indicated alongside the locations or specified herein.*

2. Section 01 21 00 - Allowances: For cash or quantity allowances covering access panels and frames.

3. Section 01 33 00 - Submittal Procedures: For administrative and procedural requirements for processing of submittals during the construction phase.

4. Section 01 77 00 - Closeout Procedures: For administrative and procedural requirements for completion of the Work.

*SPECIFIER: Retain subparagraphs below to suit Project requirements; revise section numbers and titles per project requirements.*

5. Section 08 31 16 - Access Panels and Frames: For non-sound-rated access panels and frames.

6. Section 09 91 00 - Painting: For field painting of access panels and frames.

7. Section 11 19 00 - Detention Equipment: For access panels and frames for detention facilities.

*SPECIFIER: Retain this Article if provision of access panels and frames are covered under an allowance.*

**1.02 ALLOWANCES**

*SPECIFIER: Retain products and work included in this Section that are covered by cash or quantity allowance. Do not include amounts. Insert descriptions of items in Part 2 or 3 to provide information affecting the cost of the Work that is not included under the allowance.*

A. Access panels and frames are part of an access panel and frame allowance.

**1.03 REFERENCES**

*SPECIFIER: Use care when indicating the edition date of the referenced standards; these standards are subject to regular review and updated accordingly; review list carefully for inclusion.*

A. Reference Standards:

1. ASTM International (ASTM):

a. ASTM A36/A36M-12, Standard Specification for Carbon Structural Steel.

b. ASTM A653/A653M-11, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot-Dip Process

c. ASTM A666-10, Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.

d. ASTM A1008/A1008M-12a, Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable

e. ASTM C834-10, Standard Specification for Latex Sealants

f. ASTM E-90, Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements

g. ASTM E413, Classification for Rating Sound Insulation

h. ASTM E1332, Standard Classification for Rating Outdoor-Indoor Sound Attenuation

i. ASTM F2329-11, Standard Specification for Zinc Coating, Hot-Dip, Requirements for Application to Carbon and Alloy Steel Bolts, Screws, Washers, Nuts, and Special Threaded Fasteners

*SPECIFIER: Indicate date of current Edition in affect in the Project location if known, to avoid problems with interpretation.*

1. International Code Council (ICC):

a. International Building Code (IBC) - [**current**] Edition.

2. Intertek directory of building products.

**1.04 ACTION SUBMITTALS**

*SPECIFIER: Revise Section number in the paragraph below to match that used in the Project Manual.*

A. Submit in accordance with Section [**01 33 00**] [**other**]:

1. Product Data:

a. Materials description for access panels and frames including details showing mounting type, relationships to surrounding construction, panel and frame type, materials, and construction, and locking features.

b. Installation instructions for each product specified.

2. Shop Drawings:

a. Include details of each frame type, elevation of panel, anchorage and accessory items.

b. Schedule showing each type of access panel and frame, locations, sizes, latching or locking provisions, and other data pertinent to installation.

c. Indicate installation procedures and accessories required for a complete installation.

*SPECIFIER: Delete subparagraph below for standard steel panels; retain for stainless steel finish.*

3. Samples: For each panel face material, at least 3 by 5 inches (75 by 125 mm) in size, in specified finish.

**1.05 INFORMATIONAL SUBMITTALS**

*SPECIFIER: Revise Section number in the paragraph below to match that used in the Project Manual.*

A. Submit in accordance with Section [**01 33 00**] [**other**]:

1. Product Test Reports: For each sound-rated access panel and frame, for tests performed by a qualified testing agency.

**1.06 QUALITY ASSURANCE**

A. Comply with standards referenced in Article 1.03 REFERENCES.

B. Provide access panels and frames produced by a single manufacturer.

**1.07 DELIVERY, STORAGE, AND HANDLING**

A. Deliver, store, and handle access panels and frames using means and methods that will prevent damage, deterioration, or loss.

1. Deliver units in manufacturer's original packaging, properly labeled for identification.

**PART 2 - PRODUCTS**

**2.01 ACCESS PANELS AND FRAMES MANUFACTURERS**

A. Acceptable Manufacturers:

JL Industries - part of Activar Construction Products Group, Inc.

9702 Newton Ave S.

Bloomington, MN 55431

(800) 554-6077

www.activarcpg.com

sales@activarcpg.com

B. Substitutions: Manufacturers seeking approval of their products are required to comply with the Owner's Instructions to Bidders, generally contained in the Project Manual.

**2.02 PERFORMANCE REQUIREMENTS**

A. Access panels shall be tested and shall meet the following minimum ratings:

1. Sound Transmission Class (STC) Rating: When tested in accordance with ASTM E90, the panel shall have an STC Rating of 65 when installed in an STC-Rated wall of the same or lower rating and shall be classified in accordance with ASTM E413 and ASTM E1332.

*SPECIFIER: The Model number for these access panels is established by specifying the Series identifier, followed by the width and height, latch/lock type, and color code; e.g.* ***Model No. STC–1212F4W****, meaning an STC Series flush steel access panel, 12 inches (305 mm) wide by 12 inches (305 mm) high, with the standard nonlocking compression paddle latch, and the standard white frame and panel finish.*

**2.03 STC SERIES - INTERIOR, SOUND-RATED ACCESS PANELS AND FRAMES**

A. Style STC: Sound-rated, flush, steel access panel.

1. Model No. STC - [**insert remainder of model number from manufacturer's chart**].

2. Frame: 16-gauge steel with 1 inch (25.40 mm) flange.

3. Insulated Panel: 20-gauge steel mounted to frame with continuous hinge (provide not less than 170 degree opening); 2-1/4 inch (57.10 mm) thickness.

a. Insulation: Thermafiber® SAFB mineral wool sound-blocking insulation.

4. Finish: Powder coat paint - white.

*SPECIFIER: Add "F4" designation following the Model number in subparagraph 1 above for the standard latch type indicated below or; refer to subparagraph 8 below for optional latch/lock features.*

5. Standard Latch: Locking, flush, black, compression paddle latch **(F4).**

6. Gasketing: Continuous, EPDM rubber gasket, attached to frame.

7. General Use: Walls and ceilings.

8. Style STC Options:

*SPECIFIER: Select specific options listed below; indicate selection as a part of the Model number in subparagraph 1 above.*

a. Color: **[Gray] (G)**] [**Red (R)**] [**Black (BK)**] [**Flat Black (FB)**] [**Sand (S)**] [**AMS Beige (AB)**] [**SC Flat Beige (SB)**] [**Bronze (B)**].

b. Latch/Lock Feature: [**Locking flush chrome (F6)** **compression latch.]**

B. Style STCS: Sound-rated, flush, stainless steel access panel.

1. Model No. STCS - [**insert remainder of model number from manufacturer's chart**].

2. Frame: 16-gauge 304 stainless steel with 1-inch (25.40 mm) flange.

3. Insulated Panel: 20-gauge stainless steel mounted to frame with continuous hinge (provide not less than 170 degree opening); 2-1/4 inch (57.10 mm) thickness.

a. Insulation: Thermafiber® SAFB mineral wool sound-blocking insulation.

4. Finish: Factory-applied ground and polished #4 directional satin finish.

*SPECIFIER: Add "F4" designation following the Model number in subparagraph 1 above for the standard latch type indicated below or; refer to subparagraph 8 below for optional latch/lock features.*

5. Standard Latch: Locking, flush, black, compression paddle latch **(F4).**

6. Gasketing: Continuous, EPDM rubber gasket, attached to frame.

7. General Use: Walls and ceilings.

8. Style STC Options:

*SPECIFIER: Select specific options listed below; indicate selection as a part of the Model number in subparagraph 1 above.*

1. Latch/Lock Feature: [**Locking flush chrome (F6)**] **compression latch.**

C. Style STCG: Sound-rated, flush, galvannealed steel access panel.

1. Model No. STCG - [**insert remainder of model number from manufacturer's chart**].

2. Frame: 16-gauge galvannealed steel with 1-inch (25.40-mm) flange.

3. Insulated Panel: 20-gauge galvanneal steel mounted to frame with continuous hinge (provide not less than 170-degree opening); 2-1/4 inch (57.10 mm) thickness.

a. Insulation: Thermafiber® SAFB mineral wool sound-blocking insulation.

4. Finish: Powder coat paint - white.

*SPECIFIER: Add "F4" designation following the Model number in subparagraph 1 above for the standard latch type indicated below or; refer to subparagraph 8 below for optional latch/lock features.*

5. Standard Latch: Locking, flush, black, compression paddle latch **(F4).**

6. Gasketing: Continuous, EPDM rubber gasket, attached to frame.

7. General Use: Walls and ceilings.

8. Style STC Options

*SPECIFIER: Select specific options listed below; indicate selection as a part of the Model number in subparagraph 1 above.*

a. Color: **[Gray] (G)**] [**Red (R)**] [**Black (BK)**] [**Flat Black (FB)**] [**Sand (S)**] [**AMS Beige (AB)**] [**SC Flat Beige (SB)**] [**Bronze (B)**].

b. Latch/Lock Feature: [**Locking flush chrome (F6)** **compression latch.]**

**2.04 MATERIALS**

A. Steel Plates, Shapes, and Bars: ASTM A36/A36M.

B. Steel Sheet: Uncoated or electrolytic zinc coated, ASTM A879/A879M, with cold‑rolled steel sheet substrate complying with ASTM A1008/A1008M, Commercial Steel (CS), exposed.

C. Metallic‑Coated Steel Sheet: ASTM A653/A653M, Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.

*SPECIFIER: Select Type 304 stainless steel for normal environments.*

D. Stainless‑Steel Sheet, Strip, Plate, and Flat Bars: ASTM A 666, [**Type 304**]. Remove tool and die marks and stretch lines or blend into finish.

E. Frame Anchors: Same material as panel face.

F. Inserts, Bolts, and Anchor Fasteners: Hot‑dip galvanized steel according to ASTM A153/A153M or ASTM F2329.

G. Furnish inserts and anchoring devices which must be built into other work for installation of access panels.

H. Acoustical Sealant: Industry standard, non-sag, paintable, non-staining latex sealant complying with ASTM C834, which effectively reduces airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E90.

**2.05 FABRICATION**

A. General: Furnish each access panel assembly manufactured as an integral unit, complete and ready for installation.

B. Metal Surfaces: For metal surfaces exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, or roughness.

C. Panels and Frames: Grind exposed welds smooth and flush with adjacent surfaces. Furnish attachment devices and fasteners of type required to secure access panel frames to types of supports indicated.

*SPECIFIER: Retain applicable subparagraphs below.*

1. Provide mounting holes in frames for attachment of units to metal or wood framing.

2. Provide mounting holes in frame for attachment of masonry anchors.

D. Latching Mechanisms: Furnish number required to hold panels in flush, smooth plane when closed.

1. For locking latches, furnish 2 keys per lock and key all locks alike.

**PART 3 - EXECUTION**

**3.01 EXAMINATION**

A. Examine substrates for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

1. Notify the Contractor in writing of conditions detrimental to proper and timely completion of the installation.

2. Proceed with installation only after unsatisfactory conditions have been corrected.

**3.02 INSTALLATION**

A. General: Comply with manufacturer's written instructions for installing STC-Rated access panels and frames.

B. Install panels flush with adjacent finish surfaces.

C. STC-Rated Assemblies: Comply with ASTM C919 and with manufacturer's written recommendations for closing off sound‑flanking paths around or through assemblies.

1. Unless otherwise recommended, install panel frame in a continuous and full bed (depth of frame) of acoustical sealant.

**3.03 ADJUSTING AND CLEANING**

A. Adjust access panels to operate easily without binding. Verify that integral locking/latching devices operate properly.

B. Remove panels and frames that are warped, bowed, or otherwise damaged, and replace with new components.

C. On completion of access panel installation, clean interior and exterior surfaces as recommended by manufacturer.

 END OF SECTION