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SECTION 08 71 00

SLIDING AND FOLDING DOOR HARDWARE - HETTICH GRANT

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Product requirements for hardware for sliding and folding doors.

1.02 REFERENCED STANDARDS

- A. BHMA A156.14 - American National Standard for Sliding & Folding Door Hardware.
- B. Hardware Manufacturers Association; 2013. (ANSI/BHMA A156.14)

1.03 SUBMITTALS

- A. Submit under provisions of Section 01 30 00
- B. Product Data: Submit manufacturer's product data, details, and installation instructions for all material provided in this section.
- C. Shop Drawings: Show layout, components, track mounting and support, anchorage details, and adjoining interface construction.

1.04 PRODUCT HANDLING

- A. All materials will arrive in the manufacturers packaging, sealed and labeled.
- B. Hardware and track shall be protected from damage and stored in a dry, well ventilated area. Keep products stored in manufactures packaging until ready for installation. Immediately report any damaged material to carrier and note said damage on the carrier's freight bill.
- C. Precautions shall be taken to protect product during construction. Do not install damaged goods. Damaged goods must be replaced.

1.05 WARRANTY

- A. Provide manufacturer's limited lifetime warranty covering defects in materials and workmanship and limited to repair or replacement of defective product.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Basis of Design: Hettich America, LP
4295 Hamilton Mill Road
Suite 400
Buford, Ga. 30518
Toll Free #800.777.1772
Email Info@hettichamerica.net
Web www.hettich.com
[Where to Buy](#)

or a comparable product by one of the following:

Hawa
Hager
KN Crowder

2.02 SLIDING AND FOLDING DOOR HARDWARE – GENERAL

- A. Provide hardware sufficient to make door/panel assemblies operate smoothly, close openings completely, and remain in position when closed
- B. Where type or size is not indicated, select from manufacturer's full line based on manufacturer's recommendations, actual door/panel sizes and weights, and configurations indicated on drawings.
- C. Track and Carriers: Designed as a set, to suit operational configuration, weight of doors, and manufacturer's limitations.
- D. Tracks: Provide tracks of appropriate type, size, and length for openings, regardless of manufacturer's standard unit sizes; splice tracks without gaps or offsets. Provide appropriate finish: Mill Finish Aluminum or Anodized Aluminum
- E. Accessories: Provide all accessory parts necessary to make door/panel assemblies operate smoothly, close openings completely, and remain in position when closed.

2.03 OVERHEAD SUPPORTED SINGLE TRACK SLIDING DOOR HARDWARE, WITH WHEELED CARRIERS FOR SINGLE DOORS

A. Hettich Grant 6023

1. Light-Duty, Up To 50 pounds (23 kg) Per Panel: Offset track.
2. Carriers: Single-wheeled, steel housing with cam-type vertical adjustment; nylon wheels; mounted to back of door panel.
3. Door Thickness: 0.75 inch (19 mm) minimum.
4. Vertical Adjustment: 0.25 inch (6.4 mm) nominal.
5. Minimum Headroom: 1.125 inches (28.6 mm)
6. Maximum Headroom: 1.375 inches (34.9 mm)
7. Substitutions: *Not permitted*

B. Hettich Grant 6053

1. Medium-Duty, Up To 75 pounds (34 kg) Per Panel: Offset track.
2. Carriers: Two-wheeled, steel housing with cam-type vertical adjustment; steel ball bearing wheels with nylon roller; mounted to back of door panel.
3. Door Thickness: 0.75 inch (19 mm) minimum.
4. Vertical Adjustment: 0.25 inch (6.4 mm) nominal.
5. Minimum Headroom: 1.125 inches (28.6 mm)
6. Maximum Headroom: 1.375 inches (34.9 mm)
7. Substitutions: *Not permitted*

C. Hettich Grant 75E

1. Medium-Duty, Up To 75 pounds (34 kg) Per Panel: Box track.
2. Comply with ANSI/BHMA A156.14 Grade 1.
3. Carriers: Four-wheeled, ball-bearing wheels; quick release.
4. Door Thickness: 0.75 inch (19 mm) minimum.
5. Vertical Adjustment: 0.44 inch (11 mm) nominal.
6. Minimum Headroom: 1.78 inches (45.2 mm)
7. Maximum Headroom: 2.22 inches (56.4 mm)
8. Substitutions: *Not permitted*

D. Hettich Grant 71-034 (back mount); 71-111 (top mount)

1. Medium-Duty, Up To 150 pounds (68 kg) Per Panel: I-beam track.
2. Comply with ANSI/BHMA A156.14 Grade 1.

3. Carriers: Four-wheeled, steel housing with ball and socket suspension system; mounted to top or back of door panels.
 4. Carrier Wheels: Steel ball bearing included in set. Nylon optional.
 5. Door Thickness: 0.75 inch (19 mm) minimum.
 6. Vertical Adjustment: 71-034 = 0.25 inches (6.4 mm) nominal; 71-111 = no vertical adjustment.
 7. Minimum Headroom: 71-034 = 1.875 inches (47.6 mm); 71-111 = 1.9375 inches (49.2 mm)
 8. Maximum Headroom: 2.125 inches (53.9 mm)
 9. Substitutions: *Not permitted*
- E. Hettich Grant 71-138 (back mount); 71-222 (top mount)
1. Medium-Duty, Up To 150 pounds (68 kg) Per Panel: I-beam track.
 2. Comply with ANSI/BHMA A156.14 Grade 1.
 3. Carriers: Four-wheeled, steel housing with ball and socket suspension system; mounted to top or back of door panels.
 4. Carrier Wheels: Steel ball bearing included in set. Nylon optional.
 5. Door Thickness: 1.375 inch (34.9 mm) minimum.
 6. Vertical Adjustment: 71-138 = 0.25 inches (6.4 mm) nominal; 71-222 = 0.75 inches (19 mm) nominal
 7. Minimum Headroom: 71-138 = 1.875 inches (47.6 mm); 71-222 = 2.125 inches (53.9 mm)
 8. Maximum Headroom: 71-138 = 2.125 inches (53.9 mm); 71-222 = 2.875 inches (73mm)
 9. Substitutions: *Not permitted*
- F. Hettich Grant SD
1. Medium-Duty, Up To 150 pounds (68 kg) Per Panel: Box track.
 2. Comply with ANSI/BHMA A156.14 Grade 1.
 3. Carriers: Two-wheeled, steel housing with ball bearing rollers; mounted to top of door with quick-release steel plate; spring-latch leading edge that couples with track-mounted end stop catch.
 4. Door Thickness: 1.0 inch (25.4 mm) minimum.
 5. Maximum Vertical Adjustment: 0.5 inch (12.7 mm)
 6. Minimum Headroom: 2.81 inches (71.4mm)
 7. Maximum Headroom: 3.31 inches (84.1 mm)
 8. Wall-Mounted Bracket Fascia: Aluminum, anodized finish; 4.125 inches (105.6 mm) high.
 9. Track-Mounted Fascia: Aluminum, anodized finish; 4.125 inches (105.6 mm) high
 10. Substitutions: *Not permitted*

G. Hettich Grant 150E

1. Medium-Duty, Up To 150 pounds (68 kg) Per Panel: [Box track](#)
2. Comply with ANSI/BHMA A156.14 Grade 2.
3. Carriers: Four-wheeled, ball bearing wheels; quick release.
4. Door Thickness: 1.0 inch (25.4 mm) minimum.
5. Maximum Vertical Adjustment: 0.5 inch (12.7 mm)
6. Minimum Headroom: 2.06 inches (52.4 mm)
7. Maximum Headroom: 2.56 inches (64.3 mm)
8. Substitutions: *Not permitted*

H. Hettich Grant 1210

1. Medium-Duty, Up To 225 pounds (102 kg) Per Panel: [I-beam track](#)
2. Comply with ANSI/BHMA A156.14 Grade 1.
3. Carriers: Two-wheeled, steel ball bearing wheels; steel housing with ball and socket suspension system; mounted to top of door panels.
4. Door Thickness: 1.0 inch (25.4 mm) minimum.
5. Vertical Adjustment: 0.5 inch (12.7 mm) nominal.
6. Minimum Headroom: 3.25 inches (85.5 mm)
7. Maximum Headroom: 3.75 inches (95 mm)
8. Substitutions: *Not permitted*

I. Hettich Grant 1230

1. Medium-Duty, Up To 325 pounds (147 kg) Per Panel: [I-beam track](#)
2. Comply with ANSI/BHMA A156.14 Grade 1.
3. Carriers: Four-wheeled, steel ball bearing wheels; steel housing with ball and socket suspension system; mounted to top of door panels.
4. Door Thickness: 1.0 inch (25.4 mm) minimum.
5. Vertical Adjustment: 0.5 inch (12.7 mm) nominal.
6. Minimum Headroom: 3.25 inches (85.5 mm)
7. Maximum Headroom: 3.75 inches (95 mm)
8. Substitutions: *Not permitted*

J. Hettich Grant HD

1. Heavy-Duty, Up To 325 pounds (147 kg) Per Panel: [Box track](#)
2. Comply with ANSI/BHMA A156.14 Grade 1.

3. Carriers: Four-wheeled, steel housing with ball bearing nylon rollers; mounted to top of door with quick-release steel plate; spring-latch leading edge that couples with track-mounted end stop catch.
4. Door Thickness: 1.0 inch (25.4 mm) minimum.
5. Maximum Vertical Adjustment: 0.50 inch (12.7 mm)
6. Minimum Headroom: 2.81 inches (71.4 mm)
7. Maximum Headroom: 3.31 inches (84.1 mm)
8. Wall-Mounted Bracket Fascia: Aluminum, anodized finish; 4.125 inches (105.6 mm) high.
9. Track-Mounted Fascia: Aluminum, anodized finish; 4.125 inches (105.6 mm) high.
10. Substitutions: *Not permitted*

K. Hettich Grant XHD

1. Extra Heavy-Duty, Up To 500 pounds (277 kg) Per Panel: **Box track**
2. Comply with ANSI/BHMA A156.14 Grade 1.
3. Carriers: Four-wheeled, steel housing with ball bearing nylon rollers; mounted to top of door with quick-release steel plate; spring-latch leading edge that couples with track-mounted end stop catch.
4. Door Thickness: 1.375 inch (34.9 mm) minimum.
5. Maximum Vertical Adjustment: 0.375 inch (9.5 mm)
6. Minimum Headroom: 2.875 inches (73 mm)
7. Maximum Headroom: 3.25 inches (82.6 mm)
8. Substitutions: *Not permitted*

2.04 OVERHEAD SUPPORTED SINGLE TRACK SLIDING DOOR HARDWARE, BALL-BEARING CARRIERS FOR SINGLE DOORS

A. Hettich Grant 5150

1. Medium-Duty, Up To 150 pounds (68 kg) Per Panel: **Hanger System**.
2. Track and Carriers: Custom-fabricated as a set, to suit operational configuration, weight of panels, and manufacturer's limitations.
 - a. Track: Extruded aluminum, machined to fit ball-bearing rollers.
 - b. Carriers: Continuous ball bearing rollers; no wheeled rollers; mounted to top of panel.
3. Comply with ANSI/BHMA A156.14 Grade 1.
4. Material for Interior Applications: Aluminum.
5. Material for Exterior Applications: Aluminum with stainless steel components.
6. Door Thickness: 1.00 inch (25.4 mm) minimum.
7. Vertical Adjustment: 0.75 inch (9.5 mm) nominal.
8. Minimum Headroom: 2.625 inches (66.7 mm)

9. Maximum Headroom: 3.00 inches (76.2 mm)
10. Maximum track length: 196.00 inches (5000mm)
11. Maximum door width: 96.00 inches (2400mm)
12. Substitutions: *Not permitted*

B. Hettich Grant 5300

1. Heavy-Duty, Up To 1000 pounds (454 kg) Per Panel: **Hanger System**.
2. Track and Carriers: Custom-fabricated as a set, to suit operational configuration, weight of panels, and manufacturer's limitations.
 - a. Track: Extruded aluminum, machined to fit ball-bearing rollers.
 - b. Carriers: Continuous ball bearing rollers; no wheeled rollers; mounted to top of panel.
3. Comply with ANSI/BHMA A156.14 Grade 1.
4. Material for Interior Applications: Cold drawn steel.
5. Material for Exterior Applications: Aluminum with stainless steel components.
6. Door Thickness: 1.00 inch (25.4 mm) minimum.
7. Vertical Adjustment: 0.625 inch (16 mm) nominal.
8. Minimum Headroom: 4.00 inches (101.6 mm)
9. Maximum Headroom: 4.625 inches (117.5 mm)
10. Maximum track length: 384.00 inches (9800mm)
11. Maximum door width: 192.00 inches (4800mm)
12. Substitutions: *Not permitted*

2.05 OVERHEAD SUPPORTED DOUBLE TRACK SLIDING DOOR HARDWARE FOR BY-PASSING DOORS

A. Hettich Grant 6034

1. Light-Duty, Up To 50 pounds (23 kg) Per Panel: **Offset track**.
2. Carriers: Single-wheeled, steel housing with cam-type vertical adjustment; nylon wheels; mounted to back of door panel.
3. Door Thickness: 0.75 inch (19 mm) or 1.375 inches (34.9mm)
4. Vertical Adjustment: 0.25 inch (6.4 mm) nominal.
5. Minimum Headroom: 1.125 inches (28.6 mm)
6. Maximum Headroom: 1.375 inches (34.9 mm)
7. Substitutions: *Not permitted*

B. Hettich Grant 6064

1. Medium-Duty, Up To 75 pounds (34 kg) Per Panel: **Offset track**.
2. Carriers: Two-wheeled, steel housing with cam-type vertical adjustment; steel ball bearing wheels with nylon roller; mounted to back of door panel.

3. Door Thickness: [0.75 inch \(19 mm\)](#) or [1.375 inches \(34.9mm\)](#)
4. Vertical Adjustment: [0.25 inch \(6.4 mm\)](#) nominal.
5. Minimum Headroom: [1.125 inches \(28.6 mm\)](#)
6. Maximum Headroom: [1.375 inches \(34.9 mm\)](#)
7. Substitutions: *Not permitted*

C. Hettich Grant 6065

1. Medium-Duty, Up To [75 pounds \(34 kg\)](#) Per Panel: [Offset track with fascia.](#)
2. Carriers: Two-wheeled, steel housing with cam-type vertical adjustment; steel ball bearing wheels with nylon roller; mounted to back of door panel.
3. Door Thickness: [0.75 inch \(19 mm\)](#)
4. Vertical Adjustment: [0.25 inch \(6.4 mm\)](#) nominal.
5. Minimum Headroom: [1.125 inches \(28.6 mm\)](#)
6. Maximum Headroom: [1.375 inches \(34.9 mm\)](#)
7. Substitutions: *Not permitted*

D. Hettich Grant 72-034, 72-118, 72-138, 72-134

1. Medium-Duty, Up To [150 pounds \(68 kg\)](#) Per Panel: [I-beam track.](#)
2. Comply with ANSI/BHMA A156.14 Grade 1.
3. Carriers: Four-wheeled, steel housing with ball and socket suspension system; mounted to back of door panels.
4. Carrier Wheels: Steel ball bearing included in set. Nylon optional.
5. Door Thickness: 72-034 = [0.75 inch \(19 mm\)](#); 72-118 = [1.125 inches \(28.6mm\)](#); 72-138 = [1.375 inches \(34.9mm\)](#); 72-134 = [1.75 inches \(44.4mm\)](#)
6. Vertical Adjustment: [0.25 inches \(6.4 mm\)](#) nominal.
7. Minimum Headroom: [1.875 inches \(47.6mm\)](#)
8. Maximum Headroom: [2.125 inches \(53.9mm\)](#)
9. Substitutions: *Not permitted*

E. Hettich Grant 73-034, 73-138, 73-134

1. Medium-Duty, Up To [150 pounds \(68 kg\)](#) Per Panel: [I-beam track with fascia.](#)
2. Comply with ANSI/BHMA A156.14 Grade 1.
3. Carriers: Four-wheeled, steel housing with ball and socket suspension system; mounted to back of door panels.
4. Carrier Wheels: Steel ball bearing included in set. Nylon optional.
5. Door Thickness: 73-034 = [0.75 inch \(19 mm\)](#); 73-138 = [1.375 inches \(34.9mm\)](#); 73-134 = [1.75 inches \(44.4mm\)](#)
6. Vertical Adjustment: [0.25 inches \(6.4 mm\)](#) nominal.
7. Minimum Headroom: [1.875 inches \(47.6mm\)](#)

8. Maximum Headroom: 2.125 inches (53.9mm)
9. Substitutions: *Not permitted*

2.06 FOLDING DOOR HARDWARE

- A. Hettich Grant BF25, for 1 pair hinged together
 1. Light-Duty, Up To 25 pounds (11 kg) Per Panel: Box track with plunger instead of carrier.
 2. Spring plunger glides smoothly and easily while staying securely in place.
 3. Door Thickness: 0.75 inch (19 mm) to 1.75 inches (44mm)
 4. Vertical Adjustment: 0.3125 inch (8mm) nominal.
 5. Minimum Headroom: 1.78 inches (45.3 mm)
 6. Maximum Headroom: 2.09 inches (53.2 mm)
 7. Substitutions: *Not permitted*

- B. Hettich Grant BF50, for 1 pair hinged together
 1. Light-Duty, Up To 50 pounds (23 kg) Per Panel: Box track.
 2. Carrier: Ball bearing carrier with 4 wheels for smooth and long lasting operation.
 3. Door Thickness: 0.75 inch (19 mm) to 1.75 inches (44mm)
 4. Vertical Adjustment: 0.3125 inch (8mm) nominal.
 5. Minimum Headroom: 1.784 inches (46.8mm)
 6. Maximum Headroom: 2.156 inches (54.8mm)
 7. Substitutions: *Not permitted*

- C. Hettich Grant BF150, for 1 pair hinged together or Multi-Fold up to 6 panels one way
 1. Medium-Duty, Up To 150 pounds (68 kg) Per Panel: Box track.
 2. Multi-Fold doors up to 75 pounds (34kg) Per Panel
 2. Carrier: Ball bearing carrier with 4 wheels for smooth and long lasting operation.
 3. Door Thickness: 1.00 inch (25.4 mm) to 1.75 inches (44mm)
 4. Vertical Adjustment: 0.50 inch (12.7mm) nominal.
 5. Minimum Headroom: 2.063 inches (52.4mm)
 6. Maximum Headroom: 2.56 inches (65.1mm)
 7. Substitutions: *Not permitted*

- D. Hettich Grant 1260, for 1 pair hinged together
 1. Medium-Duty, Up To 175 pounds (80 kg) Per Panel: I-beam track.

2. Carrier: Ball bearing carrier with 4 wheels for smooth and long lasting operation.
3. Door Thickness: 1.00 inch (25.4mm) minimum.
4. Vertical Adjustment: 0.50 inch (12.7mm) nominal.
5. Minimum Headroom: 3.25 inches (82.5mm)
6. Maximum Headroom: 3.75 inches (95.2mm)
7. Substitutions: *Not permitted*

2.07 FLOOR SUPPORTED SLIDING DOOR HARDWARE

A. Hettich Grant Sheave and Track 20

1. Light-Duty, Up To 50 pounds (23 kg) Per Panel.
2. Track: W-shaped, recessed, brass; W-shaped, recessed, stainless steel; W-shaped, recessed, aluminum; T-shaped, surface-mounted, plastic.
3. Rollers: Brass wheel and brass housing; Nylon wheel and brass housing; Nylon wheel and steel housing; Brass wheel and steel housing.
4. Door Thickness: 0.75 inch (19 mm)
5. Substitutions: *Not permitted*

B. Hettich Grant Sheave and Track 18

1. Medium-Duty, Up To 125 pounds (57 kg) Per Panel.
2. Track: W-shaped, recessed, brass; W-shaped, recessed, stainless steel.
3. Rollers: Nylon wheel and zamac housing
4. Door Thickness: 1.00 inch (25.4 mm)
5. Substitutions: *Not permitted*

C. Hettich Grant Sheave and Track 14

1. Heavy-Duty, Up To 200 pounds (91 kg) Per Panel.
2. Track: W-shaped, recessed, bronze
3. Rollers: Nylon wheel and zamac housing
4. Door Thickness: 0.75 inch (19 mm)
5. Substitutions: *Not permitted*

END OF SECTION