



### PART 1 - GENERAL

**1.01 Work Included:** Rolling counter shutters shall be C.H.I. Service Series 6500, flat slat, as manufactured by C.H.I., 1485 Sunrise Drive, Arthur, IL 61911.

**1.02 Related work not included:** Preparation of openings, field painting, miscellaneous or structural metal work, access panels, field electrical wiring, wire, conduit, fuses and disconnect switches are not included in the scope of work provided by C.H.I.

**1.03 Five Year Limited Warranty:** C.H.I. Overhead Doors, Inc., (C.H.I.) warrants each rolling counter shutter and components to be free from defects in materials and workmanship for a period of 5 years from date of receipt to original purchaser. Refer to back page for complete warranty information.

### PART 2 - PRODUCTS

**2.01 General:** Items and components described in the following paragraphs reflect current products manufactured by C.H.I. and may be changed without notice by the manufacturer without penalty or liability.

**2.02 Curtain:** Standard curtain slats shall be extruded, interlocking clear anodized aluminum. Optional roll-formed slats may be selected from pre-finished 22 gauge high tensile hot dipped galvanized steel, or stainless steel slats in a #4 finish. Lateral slat movement to be controlled by nylon endlocks fastened to every other slat. Endlocks shall be designed to provide quiet operation and to prevent slats from contacting guide surfaces. Windlocks added as dictated by shutter size and windload required.

ments. Flat Slats cover 1-1/2 inches center-to-center and have a 1/2 inch deep profile.

**2.03 Bottom Bar:** Bottom bar to be extruded aluminum with thumb turn lock bolts and integral lift rails as standard. Cylinder locking for coil side, face of curtain, or both sides is optional. Dual bottom tube astragal is standard for a wide, stable, non-marring footprint on the sill.

**2.04 Guides:** Standard guides to be extruded aluminum and box shaped with soft brush guide runner for smooth and quiet operation. Guides fabricated from clear anodized, extruded aluminum in a two-piece configuration with no visible fasteners on the guide exterior. Travel stops provided for curtain at the header. Optional guides for stainless steel are box shaped, and formed from #4 polished stainless steel.

**2.05 Head Plates:** Head plates for mounting the curtain, hood, and barrel assemblies to be fabricated from steel plate. The head plates supporting the drive side of the door axle to be provided with a precision self-aligning bearing.

**2.06 Barrel Assembly:** The barrel shall be made from minimum 4-1/2 inch O.D. steel pipe. Deflection of the pipe under full load shall not exceed 0.03 inches per foot of span. The barrel shall be provided with threaded rings or lugs, welded to the barrel assembly, for simple curtain attachment.

**2.07 Springs:** Curtain weight shall be counterbalanced by oil-tempered, helically wound torsion springs, grease packed and mounted on a steel shaft

**2.08 Hood:** The standard hood shall be rectangular shaped and formed of minimum 24 gauge aluminum sheet, painted steel sheet or stainless steel sheet shaped to fit within the head plates. Intermediate hood support(s) will be furnished as required.

**2.09 Locking:** Manual push-up doors shall be furnished with bottom bar thumb turn locks. Bottom bar lock bolts terminate securely into hidden guide receivers on each side. Cylinder locks furnished as optional equipment and may be keyed alike as required.

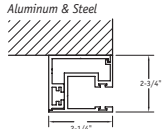
**2.10 Operation:** To be manual push up as standard. Integral lift rails standard on each side of bottom bar to provide full width access and trouble free operation. Reduced drive awning crank operation with removable handle, concealed tube motor operation and outside motor operation is optional.

**2.11 Finishes:** Standard finish for extruded aluminum curtain and guides is clear anodized. Gray and white steel curtain finish is hot dipped galvanized steel with a two coat, baked-on system consisting of an epoxy primer coat with a polyester finish coat on each side. Painted curtains to use extruded aluminum box guides with a clear anodized finish as standard. Stainless shutters provided with #4 polished finish curtain and guides. Powder coating is optional in a wide palette of colors.

### PART 3 - EXECUTION

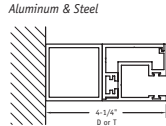
**3.01 General:** C.H.I. rolling counter shutters shall be installed according to C.H.I. assembly instructions by trained door systems technicians.

Face of Wall Mount



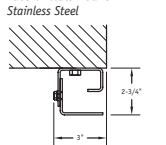
|              | D      | T  |
|--------------|--------|----|
| Manual       | 3"     | 3" |
| Awning Crank | 4-1/2" | 3" |
| Motor        | 4-1/2" | 3" |

Between Jamb Mount



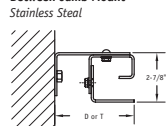
|              | D      | T      |
|--------------|--------|--------|
| Manual       | 4-1/4" | 4-1/4" |
| Awning Crank | 4-1/4" | 4-1/4" |
| Motor        | 4-1/4" | 4-1/4" |

Face of Wall Mount



|              | D      | T      |
|--------------|--------|--------|
| Manual       | 3-1/2" | 4-1/2" |
| Awning Crank | 5"     | 4-1/2" |
| Motor        | 5"     | 4-1/2" |

Between Jamb Mount



|              | D      | T      |
|--------------|--------|--------|
| Manual       | 3-1/2" | 4-1/2" |
| Awning Crank | 5"     | 4-1/2" |
| Motor        | 5"     | 4-1/2" |

## HEADER CLEARANCES & DIMENSIONS (inches)

