

SERIES W1S & W2S ACCESS COVERS

With Grating Panels

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Storage, Handling, Installation & Maintenance Instructions

Limited Warranty

VENDOR DATA

HALLIDAY PRODUCTS, INC.

6401 Edgewater Drive

Orlando, FL 32810

Phone: 407-298-4470 - Fax: 407-298-4534

Toll Free: 800-298-1027

Email: Sales@HallidayProducts.com

Web Site at www.HallidayProducts.com

MATERIAL DATA SHEET

Access Frames and Covers with Grating Panels

1. Door leaf shall be ¼-in. thick 5086-H34* mill finish aluminum diamond pattern plate.
2. Frame members shall be ¼-in. thick 6005-T5 mill finish aluminum extrusion with built-in EPDM cushion/gasket and bituminous coating.
3. The following items shall be Type 316 Stainless Steel: hinges, hold-open arm, slam lock and all attaching hardware. The compression spring shall be type 17-7 stainless steel.
4. Grating aluminum "I" bar construction
5. Tamper proof stainless steel hinge bolts
6. Nut rail on 300 lb/ft² (1462 kg/m²) live load doors only
7. Units shall carry a Lifetime Guarantee against defects in material and/or workmanship.

*5086-H34 has excellent resistance to corrosion--especially in a marine environment, good workability, weld ability, good finishing characteristics, and higher strength than 3003 or 5052.

Series W1S Access Covers with Grating Panel

STANDARD FEATURES:

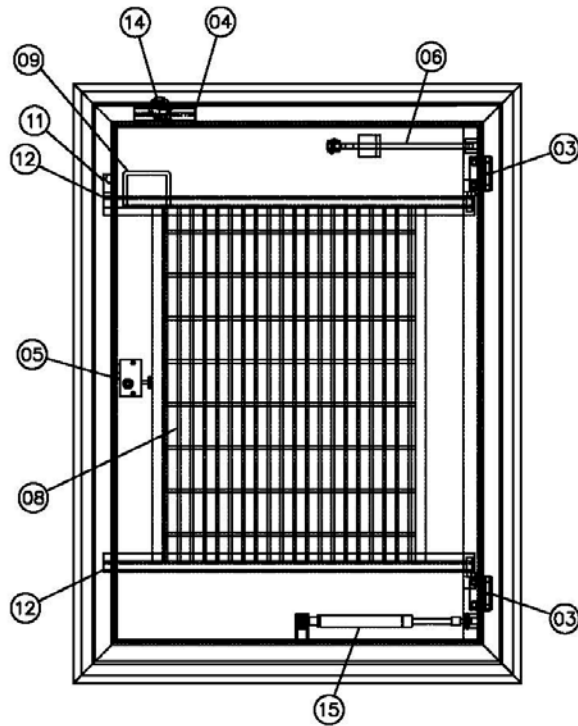
Stainless steel compression spring assist
Auto-Lock T-316 stainless steel hold-open arms with release handles T-316
stainless steel hinges and attaching hardware
T-316 stainless steel slam lock w/ removable key
Channel frame
Built-in EPDM gasket to limit the transmission of odors Non-ozone
depleting bituminous coating
Single leaf construction
View area for observation and limited maintenance
Safety Orange powder-coated finish
300 lb/ft² (1462 kg/m²) live load
Lifetime guarantee

SPECIFICATION:

The W1S (single leaf) access frames and covers as manufactured by Halliday Products, Inc. of Orlando, Florida shall have a ¼-in. thick one-piece, mill finish, extruded aluminum channel frame, incorporating a continuous concrete anchor. A 1-½-in. drainage coupling shall be located in the front left corner of the channel frame. A bituminous coating shall be applied to the frame exterior where it will come in contact with concrete. Door panel shall be ¼-in. aluminum diamond plate. Door shall open to 90 degrees and automatically lock with T-316 stainless steel hold-open arm with aluminum release handle. For ease of operation the hold-open arm shall incorporate enclosed stainless steel compression spring assist. Door shall close flush with the frame and rest on a built-in EPDM gasket to insure odor resistance. The gasket shall limit air infiltration to less than 1 CMF per lineal foot of opening perimeter, with a pressure differential equal to 1-in. column of water. Hinges and all fastening hardware shall be T-316 stainless steel. Unit shall lock with a T-316 stainless steel slam lock with removable key. The protective grating panel shall be 1 inch (25 kg.) aluminum "I" bar grating with Safety Orange powder-coated finish. Grating shall be hinged with tamper proof stainless steel bolts, and shall be supplied with a positive latch to maintain unit in an upright position. Grating shall have a 6-in. (152mm) viewing area on each lateral unhinged side for visual observation and limited maintenance. Grating support ledges on 300 lb/ft² (1462 kg/m²) live load access covers shall incorporate nut rail with a minimum of four (4) stainless steel spring nuts. A padlock hasp for owner-supplied padlock shall be provided. Unit shall carry a Lifetime guarantee against defects in material and/or workmanship.

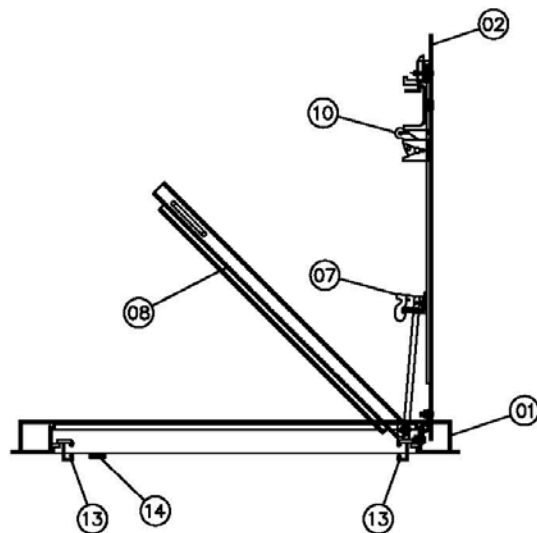


SERIES W1S W/ PROTECTIVE GRATING



STANDARD COMPONENT PARTS

- ① FRAME EXTRUSION
- ② DIAMOND PLATE COVER
- ③ HINGES W/ HARDWARE
- ④ LIFTING HANDLE
- ⑤ SLAM LOCK
- ⑥ HOLD-OPEN ARM
- ⑦ POSITIVE LOCKING LATCH
- ⑧ PROTECTIVE GRATING PANEL
- ⑨ GRATING HANDLE
- ⑩ GRATING LATCH
- ⑪ GRATING PADLOCK TAB
- ⑫ GRATING SUPPORT BEAM
- ⑬ NUT RAIL
- ⑭ DRAIN COUPLING
- ⑮ SPRING ASSIST

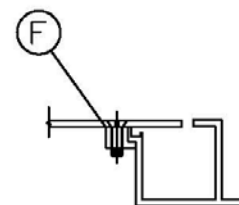
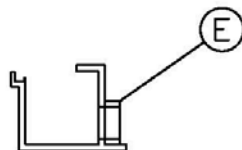
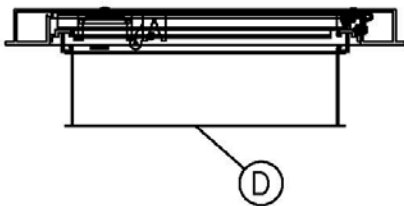
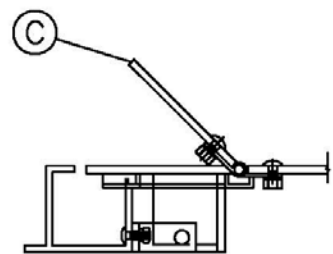
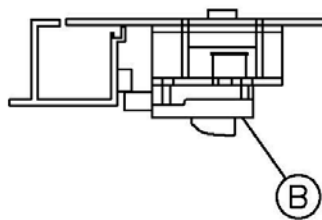
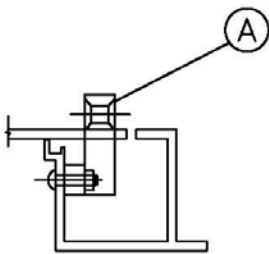


W1S GRATING PARTS LIST - R0



SERIES W1S W/ PROTECTIVE GRATING - OPTIONS

- | | |
|-------------------------|-------------------|
| (A) PADLOCK BAR | (D) SLAB SKIRTING |
| (B) KEYED CYLINDER LOCK | (E) SIDE DRAIN |
| (C) RECESSED LOCK BOX | (F) BOLT DOWN |



W1S GRATING OPTIONS LIST - R0

Series W2S Access Covers with Grating Panel

STANDARD FEATURES:

Stainless steel compression spring assist
Auto-Lock T-316 stainless steel hold-open arms with release handles T-
316 stainless steel hinges and attaching hardware
T-316 stainless steel slam lock w/ removable key
Channel frame
Built-in EPDM gasket to limit the transmission of odors Non-
ozone depleting bituminous coating
Double leaf construction
View area for observation and limited maintenance
Safety Orange powder-coated finish
300 lbs. per sq. ft. load rating
Lifetime guarantee

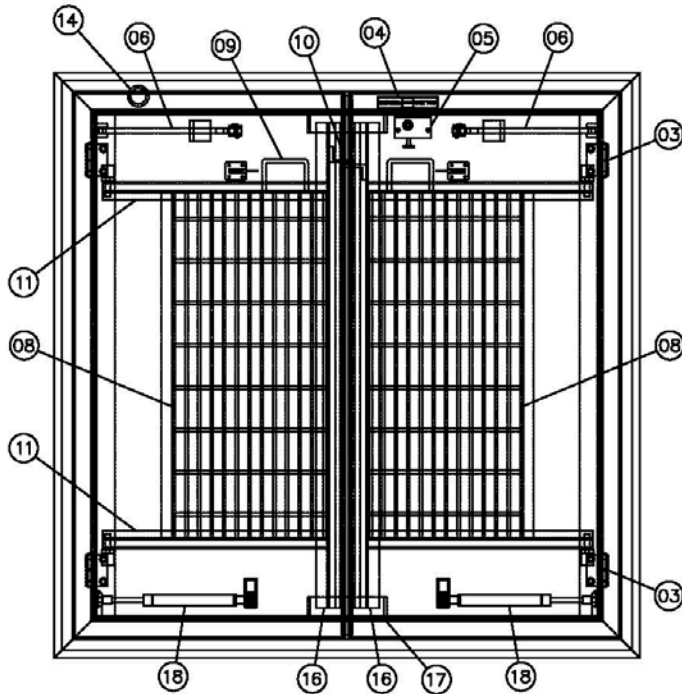
SPECIFICATION:

The W2S (double leaf) access frames and covers as manufactured by Halliday Products, Inc. of Orlando, Florida shall have a ¼-in. thick one-piece, mill finish, extruded aluminum channel frame, incorporating a continuous concrete anchor. A 1-½-in. drainage coupling shall be located in the front left corner of the channel frame. A bituminous coating shall be applied to the frame exterior where it will come in contact with concrete. Door panels shall be ¼-in. aluminum diamond plate. Door shall open to 90 degrees and automatically lock with T-316 stainless steel hold-open arm with aluminum release handles. For ease of operation the hold-open arm shall incorporate enclosed stainless steel compression spring assist. Door shall close flush with the frame and rest on a built-in EPDM gasket to insure odor resistance. Hinges and all fastening hardware shall be T-316 stainless steel. Unit shall lock with a T-316 stainless steel slam lock with removable key and have a non-corrosive handle. The protective grating panel shall be 1 inch (25 kg.) aluminum "I" bar grating with Safety Orange powder-coated finish. Grating shall be hinged with tamper proof stainless steel bolts, and shall be supplied with a positive latch to maintain unit in an upright position. Grating shall have a 6-in. (152mm) viewing area on each lateral unhinged side for visual observation and limited maintenance. Grating support ledges on 300 lbs. psf (1464 kg. per sq. meter) loaded access covers shall incorporate nut rail with a minimum of four (4) stainless steel spring nuts. A padlock hasp for owner-supplied padlock shall be provided. Unit shall carry a Lifetime guarantee against defects in material and/or workmanship.

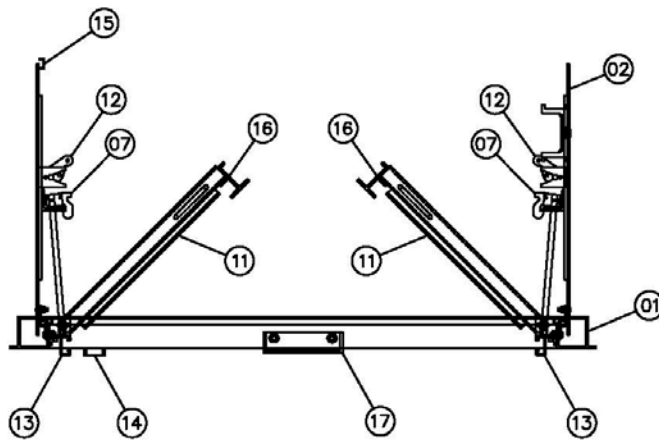


SERIES W2S W/PROTECTIVE GRATING PANEL

STANDARD COMPONENT PARTS



- ① FRAME EXTRUSION
- ② DIAMOND PLATE COVER
- ③ HINGES W/ HARDWARE
- ④ LIFTING HANDLE
- ⑤ SLAM LOCK
- ⑥ HOLD-OPEN ARM
- ⑦ POSITIVE LOCKING LATCH
- ⑧ PROTECTIVE GRATING PANEL
- ⑨ GRATING HANDLE
- ⑩ GRATING LOCK TAB
- ⑪ GRATING SUPPORT BEAM
- ⑫ GRATING LATCH
- ⑬ NUT RAIL
- ⑭ DRAIN COUPLING
- ⑮ ASTRAGAL
- ⑯ GRATING CENTER BEAM
- ⑰ CENTER BEAM SADDLE
- ⑱ SPRING ASSIST

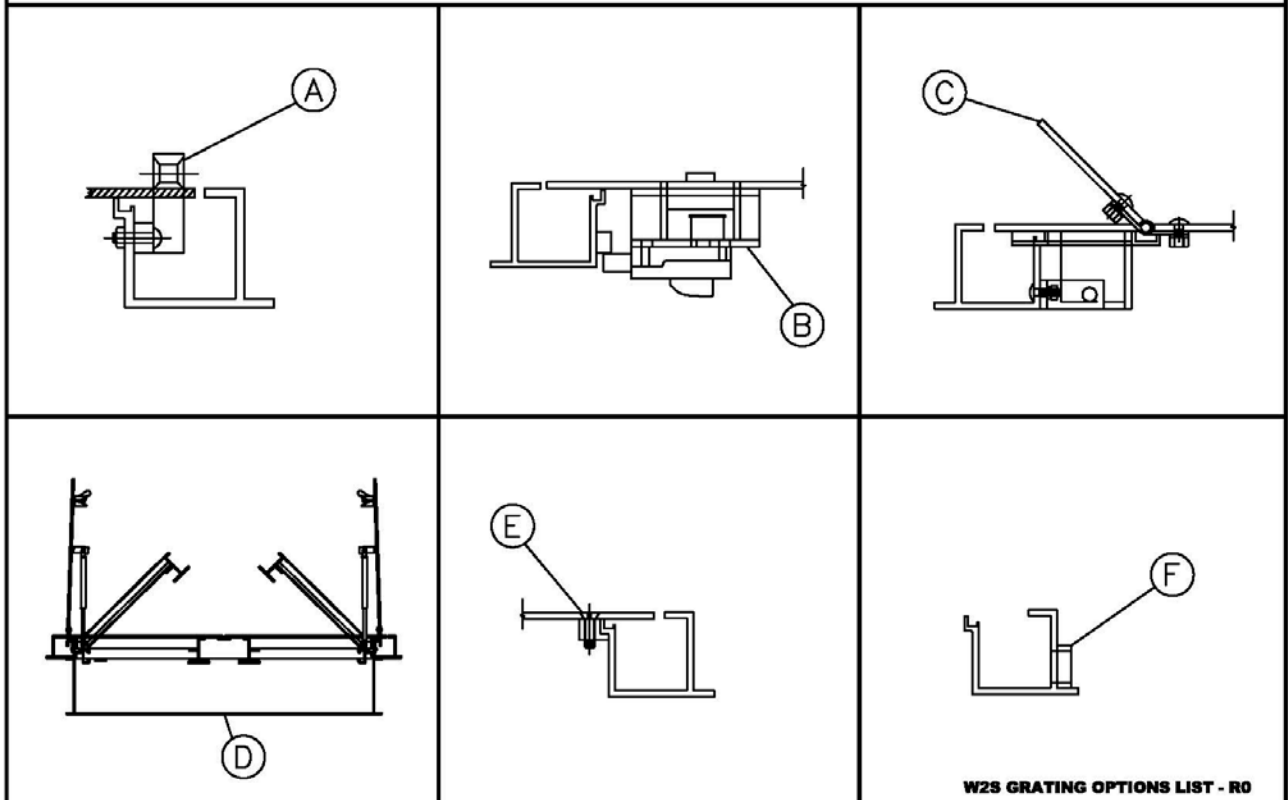


W2S GRATING PARTS LIST - R0



SERIES W2S W/ PROTECTIVE GRATING - OPTIONS

- | | |
|-------------------------|-------------------|
| (A) PADLOCK BAR | (D) SLAB SKIRTING |
| (B) KEYED CYLINDER LOCK | (E) BOLT DOWN |
| (C) RECESSED LOCK BOX | (F) SIDE DRAIN |



STORAGE, HANDLING, INSTALLATION and MAINTENANCE

STORAGE:

Prior to installation, access covers should be stored in a dry area on the original shipping pallets.

HANDLING:

Standard practice precautions should be taken whenever handling or moving palletized access covers by forklift.

INSTALLATION:

For proper installation, Halliday Products, Inc. recommends the following:

1. Formwork must be flush to the inside of frame. In the case of an H20 model, the entire frame and ledge must be supported with Class A concrete.
2. Secure unit to formwork using standard construction practices.
3. When pouring concrete, cover should be in the closed position.
4. Concrete to finish flush with top of unit framework.
5. Unit shall be left in framework for not less than 24 hours.
6. Clean all excess concrete from frame, over seat; and in the case of a channel mold, the drainage coupling.

MAINTENANCE:

Because access covers manufactured by Halliday Products, Inc. are of all aluminum and stainless steel construction, they require minimal maintenance. For optimum product life the manufacturer recommends the following procedures be performed annually:

1. Apply graphite to the interior of all locking devices.
2. Apply a light coating of machine oil to all hinges and hardware.
3. Remove all debris from the cover seat and around hinges.
4. Check and tighten any loose hardware.
5. In the case of a channel frame model, remove loose debris from channel.



LIMITED WARRANTY

Halliday Products, Inc., a Florida Corporation ("Company") warrants to the original customer the aluminum access frame and cover will be free from defective material or faulty workmanship for the life of the unit. In the event of malfunction or other indication of failure attributable directly to defective material or faulty workmanship, Company will, upon receipt of a written notification from customer of such defective material or faulty workmanship, at its option and expense, repair or replace the defective frame and cover, or a component thereof, to whatever extent Company shall deem necessary to restore the frame and cover, or a component thereof, to proper operating condition. Company may replace the defective frame and cover, or a component thereof, with either a new or remanufactured, functionally equivalent frame and cover or component thereof at the Company's option. **THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER OR NOT STATUTORY, OR EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE EXCLUSIVE REMEDY FOR DEFECTIVE FRAME AND COVER SHALL BE ONLY IN CONTRACT, WHETHER OR NOT CAUSED BY A DEFECTIVE FRAME AND COVER, OR NEGLIGENCE. COMPANY'S LIABILITY FOR LOSS OR DAMAGES SHALL NOT EXCEED THE PRICE PAID BY CUSTOMER FOR THE FRAME AND COVER, REGARDLESS OF THE FORM OF ANY CLAIM. IN NO EVENT SHALL COMPANY BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, CONSEQUENTIAL, OR PUNITIVE DAMAGES WHATSOEVER RESULTING FROM ANY DEFECTIVE FRAME AND COVER OR COMPONENT THEREOF. IF MODIFICATION OR ALTERATION IS MADE TO THE FRAME AND COVER OR COMPONENT THEREOF BY OTHER THAN COMPANY AUTHORIZED PERSONS, OR IF IT IS INSTALLED IMPROPERLY, OR MISUSED, ABUSED AND/OR NEGLECTED, THIS LIMITED WARRANTY IS NULL AND VOID AND OF NO EFFECT. THIS LIMITED WARRANTY DOES NOT APPLY AND THE COMPANY WILL HAVE NO RESPONSIBILITY HEREUNDER FOR NORMAL WEAR AND TEAR.**

Halliday Products, Inc.
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Orlando, FL 32810
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Fax: 407-298-4534