

## GENERAL INFORMATION

## STANDARDS, 2014 NATIONAL ELECTRICAL CODES®

**Applications: Steel Boxes**

RACO® high-quality steel boxes:

- Are used in branch circuit wiring
- Accommodate wiring devices, such as switches and receptacles
- Most may also serve as fixture supports
- Provide excellent protection for wiring system or devices
- Must be closed with a cover, light fixture canopy or wallplate
- Permit access to conductors for maintenance
- Allow for branch circuit runs
- Provide two-hour fire rating for 4x4 or smaller wall opening

**Product Features: Outlet Boxes for Fixture or Fan Support**

These high-quality boxes:

- Are listed to support lighting fixture canopies or fans
- Feature oversized #10 screws to provide strength and rigidity

**Product Features: TKO® Knockouts**

- TKO® knockouts offer greater flexibility with RACO® combination 1/2" and 3/4" knockout
- Stock just one product instead of two or three
- One product for the installer to carry

**TKO® Provides Reliable Grounding Path**

- Independent tests conducted by UL prove that the TKO passes the same high-current fault test used to test grounding bushings and ground lugs
- RACO® TKO knockout is UL Listed, providing bonding without the use of bonding jumpers
- Suitable for bonding without any additional bonding means around concentric (or eccentric, TKO) knockouts where used in circuits above or below 250V
- This knockout does not impair the electrical connection to ground

**Most RACO® Boxes Have At Least One Tapped #10-32 Grounding Hole**

- The products that do not have a grounding screw hole are: plenum boxes catalog numbers 226 and 239

**Product Features: Combination Screw Heads**

- Cover and clamp screws have combination slotted/Phillips heads
- Self-tapping screws provide for 100% thread engagement

**Metallic Boxes: Fire Resistance Rating Wall Penetrations\***

Listed single- and double-gang metallic outlet and switch boxes with metallic or nonmetallic cover plates, also 4x4 and octagon boxes may be used in bearing and non-bearing wood stud and steel stud walls with ratings not exceeding two hours.

The surface area of individual metallic outlet or switch boxes shall not exceed 16 square inches through a fire rated wall. The aggregate surface area of the boxes shall not exceed 100 square inches per 100 square feet. Boxes located on opposite sides of walls or partitions shall be separated by a horizontal distance of 24 inches.

The metallic outlet or switch boxes shall be securely fastened to the studs, and the opening in the wallboard facing shall be cut so that the clearance between the box and the wallboard does not exceed 1/8 inch.

\* Reference: UL Fire Resistance Directory (Orange Book)

**Standard Material: Steel Covers, Outlet And Switch Boxes**

- Steel boxes and covers are made of .0625 inch thick pre-galvanized sheet steel
- Handy Box covers are made of .030 inch thick galvanized sheet steel

**Compliances**

RACO® steel boxes and covers generally carry the following compliance ratings. Check specific catalog pages for individual compliances.

- UL Listed – Standard 514-A, file E195978 ("QCIT" Category)
- Boxes and covers are listed for their Electrical Applications (electrical codes), UL Electrical Construction Equipment Online Directory (electrical codes).
- Boxes are listed for Fire Resistance Directory, including the Two-Hour Fire Rating, (building codes) UL Orange Book
- UL Classified Standard – UL263 file R16536, CEYY, QBWY
- CSA Certified – C22.2 #18, CSA File LR-1082
- ANSI/NEMA OS1
- Federal Manufacturer's number 28488



For installation guidelines and to learn more about RACO® products, visit the NEMA website at <http://www.nema.org>.

The National Electrical Manufacturers Association (NEMA) website is a valuable electrical resource providing the information you need - quickly.

**RACO® UL Guide Cards**

You can download and print out any or all UL Guide Cards issued to RACO®. Just go to the RACO website at [www.hubbell-raco.com](http://www.hubbell-raco.com) and click on the UL symbol. Every RACO UL guide card is listed by product category. Click on the live link (right hand column in blue type) and the UL Guide Card will appear. Save to your computer or print it out.

**UL Guide Information Pages**

UL publishes the most frequently asked questions concerning product ratings, configurations, installations, uses allowed or not allowed, grounding and bonding, and much more. Each UL category has a unique Guide Information Page. Live links to each UL Guide Information Page appears just below the RACO UL guide card for each product category.

# CEILING BOXES AND COVERS

# RACO

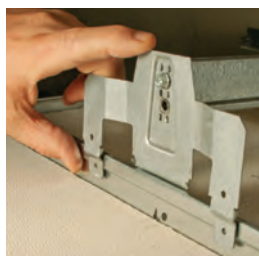
## CEILING FAN AND FIXTURE SUPPORT PRODUCTS

### APPLICATION

- GRID-BRACE™ ceiling support assembly is specifically designed for ceiling fan or fixture support for suspended ceilings

### PRODUCT FEATURES

- Heavy-duty GRID-BRACE™ for 24" spans
- Turnbuckle and 4' chain section provided
- Yoke provided for threaded rod installation
- Mount box anywhere on sliding bracket
- Spacers provided for decorative ceiling tiles that are below the depth of metal grid for flush mounting of box →
- #10-32 grade 5, 1" ceiling fan screws included
- Easy to follow instructions included



### COMPLIANCE

- File E195978
- U.S. Patents 7,148,420, U.S. Patent Pending

| CAT. #         | DESCRIPTION                                                                                   | CUBIC INCHES (CM³) | KNOCKOUTS |                       | RECOMMENDED MAX. LOADS     |                       | STD. PKG. | BAR CODE |
|----------------|-----------------------------------------------------------------------------------------------|--------------------|-----------|-----------------------|----------------------------|-----------------------|-----------|----------|
|                |                                                                                               |                    | SIDES     | BOTTOM CONDUIT        | CEILING FAN (DYNAMIC) LBS. | FIXTURE (STATIC) LBS. |           |          |
| <b>NEW</b> 931 | GRID-BRACE™ For Suspended Ceilings, 2-1/8" Deep<br>Ceiling Fan Support for Suspended Ceilings | 22.3 (365.4)       | (2) 1/2"  | (2) Conc. 1/2" & 3/4" | 70                         | 70                    | 4         |          |

## CEILING PANS

### APPLICATION

- RACO® Ceiling Pans are used in the installation of ceiling or wall lighting fixtures

### PRODUCT FEATURES

- Combination screw heads provide for faster installation

### COMPLIANCE

- File E195978

U.S. Patent 7,148,420, 4,892,211  
Canada 1,324,360 Mexico 166,125



292, 8292



287

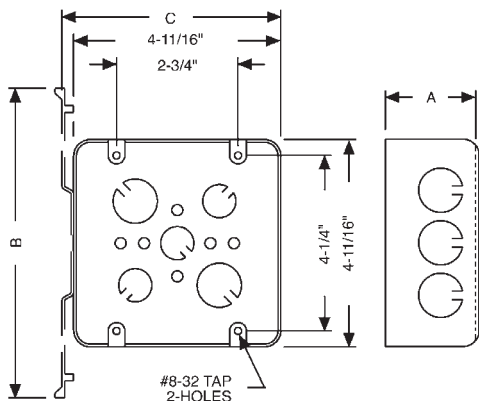


293, 8293

| CAT. #                                                                  | DESCRIPTION | CUBIC INCHES (CM³) | KNOCKOUTS     |               |                | RECOMMENDED MAX. LOADS     |                       | STD. PKG. | BAR CODE |
|-------------------------------------------------------------------------|-------------|--------------------|---------------|---------------|----------------|----------------------------|-----------------------|-----------|----------|
|                                                                         |             |                    | CABLE PRIOUTS | SIDES CONDUIT | BOTTOM CONDUIT | CEILING FAN (DYNAMIC) LBS. | FIXTURE (STATIC) LBS. |           |          |
| 3-1/2" Round Ceiling Pan – Drawn with Nonmetallic Sheathed Cable Clamps |             |                    |               |               |                |                            |                       |           |          |
| 292                                                                     | 1/2" Depth  | 4.0 (65.5)         | 4             | —             | (1) 1/2"       | No                         | 50                    | 50        | —        |
| 8292                                                                    | 1/2" Depth  | 4.0 (65.5)         | 4             | —             | (1) 1/2"       | No                         | 50                    | 25        |          |
| 287                                                                     | 3/4" Depth  | 5.0 (81.9)         | 4             | —             | (1) 1/2"       | No                         | 50                    | 50        | —        |
| 4" Round Ceiling Pan – Drawn with Conduit KO's                          |             |                    |               |               |                |                            |                       |           |          |
| 293                                                                     | 1/2" Depth  | 6.0 (98.3)         | —             | —             | (5) 1/2"       | No                         | 50                    | 50        | —        |
| 8293                                                                    | 1/2" Depth  | 6.0 (98.3)         | —             | —             | (5) 1/2"       | No                         | 50                    | 50        |          |

## SQUARE BOXES

### 4-11/16" SQUARE CONDUIT BOXES

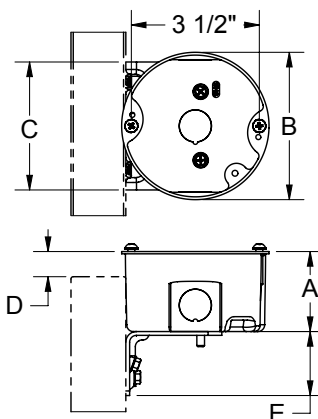


| CAT. #    | DIMENSIONS |        |         |
|-----------|------------|--------|---------|
|           | A (INSIDE) | B      | C       |
| 245       | 1-1/2"     | -      | -       |
| 246       | 1-1/2"     | -      | -       |
| 247       | 1-1/2"     | -      | -       |
| 250       | 1-1/2"     | -      | -       |
| 254       | 2-1/8"     | 7-5/8" | 5-1/16" |
| 258       | 2-1/8"     | -      | -       |
| 259       | 2-1/8"     | -      | -       |
| 260       | 3-1/4"     | -      | -       |
| 262       | 2-1/8"     | -      | -       |
| 266       | 2-1/8"     | 4-5/8" | 6-3/16" |
| 257, 8257 | 2-1/8"     | -      | -       |
| 257F      | 2-1/8"     | -      | -       |
| 257H      | 2-1/8"     | -      | -       |
| 257HS     | 2-1/8"     | -      | -       |
| 257M      | 2-1/8"     | -      | -       |
| 257SM     | 2-1/8"     | -      | -       |
| 258SM     | 2-1/8"     | -      | -       |
| 265, 8265 | 2-1/8"     | -      | -       |
| 911-12    | 2-1/8"     | -      | -       |
| 911-15    | 3-1/4"     | -      | -       |

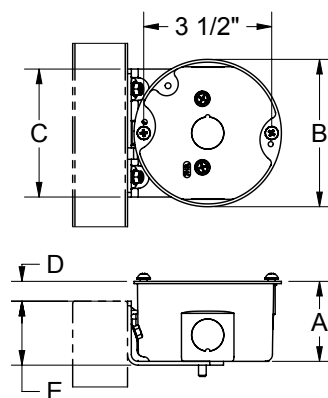
## CEILING FAN SUPPORT PRODUCTS

### CEILING FAN SUPPORT BOXES

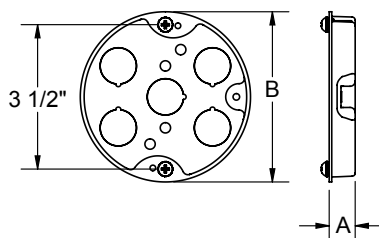
#### 291-1, 294, 294-1 (New Work)



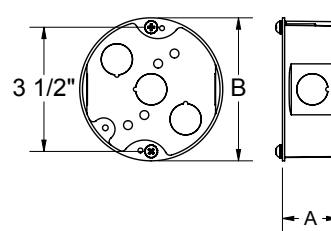
#### 294, 294-1 (Old Work)



#### 295 and 295-1



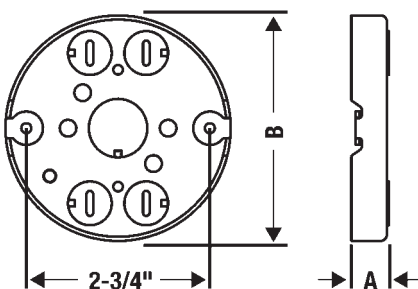
#### 296 - 299



| CAT. #     | DIMENSIONS |    |        |      |        |
|------------|------------|----|--------|------|--------|
|            | A (INSIDE) | B  | C      | D    | E      |
| 291-1      | 1-1/2"     | 4" | 3-1/2" | 1/2" | 1-3/4" |
| 294, 294-1 | 2-1/8"     | 4" | 3-1/2" | 1/2" | 1-3/4" |
| 295, 295-1 | 1/2"       | 4" | -      | -    | -      |
| 296, 296-1 | 1-1/2"     | 4" | -      | -    | -      |
| 299        | 2-1/8"     | 4" | -      | -    | -      |

### CEILING PANS - 3-1/2"

287, 292 AND 8292



| CAT. # | DIMENSIONS |        |
|--------|------------|--------|
|        | A (INSIDE) | B      |
| 287    | 11/16"     | 3-3/8" |
| 292    | 1/2"       | 3-3/8" |
| 8292   | 1/2"       | 3-3/8" |
| 293    | 1/2"       | 4"     |
| 8293   | 1/2"       | 4"     |

### CEILING PANS - 4"

293 and 8293

