

TECHNICAL DATA SHEET

DESCRIPTION

Dayton Superior® offers multiple accessories for attaching grout sleeves to formwork. These mounting devices utilize a rubber grommet and clamping mechanism for secure connections.

D491 Sleeve-Lock® Form Plug:

Used to attach the D410 Sleeve-Lock® Double Ended Grout Sleeve or the D390 Taper-Lock® Grout Sleeve to a piece of formwork such as steel, lumber or composite. Components are to be disassembled and reassembled.

D491 Formsaver:

Securely mounts a grout coupler to the formwork. It features a fully threaded screw to produce maximum compression of the rubber grommet for a rigid connection to the inner cavities of the D410 Sleeve-Lock Double Ended Grout Sleeve or the D390 Taper-Lock® Grout Sleeve.

APPLICATION

D491 Sleeve-Lock Form Plug Application:

Designed to fasten the sleeve to the formwork while keeping concrete out of the sleeve's inner chamber. The Sleeve-Lock Form Plug connects to the formwork by mounting through it and is used on the Field End only. It is not designed as a structural connection.

D491 Formsaver Application:

Used to attach the D410 & D390 Grout Sleeves to a piece of formwork without mounting through the form material. It is designed to securely fasten the designated sleeve to the formwork while keeping concrete out of the grout cavity. For D410 Sleeve-Lock application; this is used on the Field End only. The Formsaver is highly reusable.

PRODUCT SPECIFICATION

- Extension of Dayton Superior Corp. Grout Sleeve product line
- (Sleeve-Lock Form Plug) Fastens to formwork by drilling through form board and attaching components through the form board
- (Formsaver) Fastens to formwork by nails
- Compatible with both the D410 and D390 coupler product lines



**D491 Sleeve-Lock®
Form Plug**

FEATURES

- Secures couplers to formwork
- Seals inner cavity of the associated grout sleeves
- Made with highly compressible natural rubber for a strong rigid connection to the D410 or D390 Couplers

BENEFITS

- Easy installation using a socket wrench for rubber compression
- Formsaver mounting
- Components made from Zink-Coated Steel & Natural Rubber for long life and reusability

Coupler Size		Sleeve-Lock® Form Plug	Formsaver
D410	D390		
#4 - #5	#4	Part # 129843	Size 1 Part # 101721
	#5		
#6 - #7	#6	Part # 129844	Size 2 Part # 101722
	#7		
#8 - #9	#8		
#10	#9	Part # 129845	Size 3 Part # 101723
#11	#10		
#14	#11		
#18	#14	Part # 129846	Size 4 Part # 101724
	#18	N/A	Size 5 Part # 101725

TECHNICAL DATA SHEET

INSTALLATION

D491 Sleeve-Lock Form Plug Installation:

1. Disassemble the appropriate D491 Sleeve-Lock Form Plug. Place the wingnut/hex nut and washers in a secure place. Keep the welded threaded rod/washer component assembled with the rubber grommet.
2. Identify and mark the coupler location on the formwork as specified in the project details.
3. Insert the threaded rod through the drilled hole on the form with the rubber grommet fully seated against the formwork.
4. Assemble the unassembled components from Step 1 by placing the washers and the wingnut/hex nut back onto the threaded rod on the outside of the formwork. Be sure to screw the wingnut/hex nut until snug (hand tight).
5. Place the appropriate DSC Grout Sleeve onto the rubber grommet located on the inside of the formwork.
6. Tighten down the form plug with the wingnut/hex nut compressing the rubber grommet to secure the DSC Grout Sleeve to the formwork.

To Remove the Formsaver after Concrete Placement

1. Unscrew the wingnut/hex nut decompressing the rubber grommet of the D491 Sleeve-Lock Form Plug.
2. Strip the form work, leaving the cavity of the DSC Grout Sleeve exposed.
3. Remove the Form Plug from the formwork by disassembling the wingnut/hex nut and washers from the threaded rod

D491 Formsaver Installation:

1. Insert the appropriate D491 Formsaver into the desired coupler.
2. Tighten the exposed bolt hex head (located in the recessed cavity) until sufficient compression is achieved to securely fix the coupler to the plug. Size 1; use 13mm socket, Sizes 2 & 3; use 16mm socket, and Sizes 4 & 5 use 18mm socket.
3. Identify and mark the coupler location on the formwork as specified in the project details.
4. Nail the flange to the formwork to secure in place, using chairs and supports under the coupler and extending rebar, as necessary.

To Remove the Formsaver after Concrete Placement

1. Strip the form work, leaving the D491 Formsaver secured to the coupler.
2. The formsaver will slightly be released from the coupler when the form work is removed. Use hand tools to release the formsaver from the form work.
3. Chip away any slurry around the Formsaver that may have seeped in.
4. Loosen the hex head until the rubber is fully decompressed.
5. Pry the formsaver out of the coupler cavity with hand tools (If it is still stuck to the concrete panel).
6. Take caution, mounting nails will be exposed.

RELATED PRODUCTS

- D410 Sleeve-Lock® Grout Sleeve
- D390 Taper-Lock® Grout Sleeve

HOW TO ORDER

- Specify: (1) quantity, (2) name, (3) part number
Example: 50, D491 Formsaver, PCN 101722

ORDERING INFORMATION

D491 SLEEVE-LOCK® FORM PLUG

Product Code	Description	Weight
129843	#4-#5 - D410 & D390	0.188 LB
129844	#6-#7, #8-#9, #10 - D410 & #6, #7, #8, #9 - D390	0.450 LB
129845	#11, #14 - D410 & #10, #11 - D390	0.750 LB
129846	#18 - D410 & #14 - D390	1.500 LB

D491 FORMSAVER

Product Code	Description	Weight
101721	#4-#5 - D410 & D390	0.242 LB
101722	#6-#7, #8-#9, #10 - D410 & #6, #7, #8, #9 - D390	0.474 LB
101723	#11, #14 - D410 & #10, #11 - D390	0.867 LB
101724	#18 - D410 & #14 - D390	1.413 LB
101725	#18 - D390	1.336 LB

MANUFACTURER

Dayton Superior Corporation
1125 Byers Road
Miamisburg, OH 45342
Customer Service: 888-977-9600
Technical Services: 877-266-7732
Website: www.daytonsuperior.com

WARRANTY (ACCESSORIES)

Limited Warranty. Dayton warrants, for a period of 60 days from the date of shipment (three years from the date of shipment in the case of formwork, excluding any consumable Products included with such formwork), that Products and any associated application drawings and engineering services provided by Dayton ("Ancillary Services") will be free from defects in material and workmanship and, in the case of custom designed formwork, that the formwork will meet the specifications set forth in the design drawings approved by Dayton and Customer. Any claim under this warranty must be made in writing within such warranty period. If any Product and/or Ancillary Service covered by a timely claim are found to be defective, Dayton will, within a reasonable time, make any necessary repairs or corrections or, at Dayton's option, replace the Product. Unless pre-authorized by Dayton in writing, Dayton will not accept any charges for correcting defects or accept the return of any Product. This warranty will not apply to any Products that have been subjected to misuse, neglect, storage damage, misapplication, accident or any other damage caused by any person other than Dayton, or that have not been maintained in accordance with Dayton's specifications. THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES AS TO THE PRODUCTS AND ANCILLARY SERVICES. DAYTON MAKES NO OTHER WARRANTIES OR GUARANTEES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE. THE REMEDIES SET FORTH IN THIS SECTION ARE CUSTOMER'S EXCLUSIVE REMEDY FOR BREACH OF WARRANTY.