

TECHNICAL DATA SHEET

DESCRIPTION

The Century Series Bridge Deck Hangers are custom designed high capacity formwork supports. Century hangers are used to construct bridge interior bays and exterior decking. Canadian Patent 2,789,719

APPLICATION

Fixed hanger sits upright on top of steel beam or concrete girders to construct formwork.

PRODUCT SPECIFICATION

- Fabricated from steel plate and tube
- Welded construction
- Available; Hot Dip Galvanized, Electro Galvanized, Stainless Steel or Plain



C 110



C 120



C 130

FEATURES

- High Capacity—(available in SWL's up to 18 Kips)
- Tube Angle configurations; 0°, 15°, 45°, 75° or 90°
- Steel tube configuration for 1/2" & 3/4" coil rod
- Available with bearing plate to provide additional support to disperse loads

BENEFITS

- One-piece design
- Carries higher load capacity required for larger bridges

HOW TO SPECIFY

Century Hangers shall be as manufactured by Dayton Superior Corporation.

TECHNICAL DATA

1. Instead of having a type for each configuration (tube angle, haunch, flange width, etc.), the basic type (C110, C120 and C130) is chosen, and then key parameters are specified.

2. Optional parameters are also available for each style.

TECHNICAL DATA

Century Hanger	Rod Diameter	Rod Tensile Strength (psi)	Safe Working Load (lbs.)
C110	1/2"	55,000	6,000
			9,000
	3/4"	80,000	12,000 18,000
C120	1/2"	55,000	6,000
			9,000
	3/4"	80,000	12,000 18,000
C130	1/2"	55,000	6,000
			9,000
	3/4"	80,000	12,000 18,000

INSTALLATION

1. C110 - It is recommended that the user contact his local welding supply dealer for assistance in determining the required welding procedures.
2. C110 - Please see General and Technical Section in our Bridge Deck Handbook for additional information on field welding of half hangers
3. In situations where a bridge contractor does not have a qualified person on staff to calculate hanger and bracket spacing, Dayton Superior's Technical Assistance personnel are trained to provide such service. Additionally, they are able to provide bridge deck accessory take-offs and detailed drawings to the users of Dayton Superior bridge deck products. These services are provided at a nominal charge.
4. For safety, bridge deck accessories must be properly used and maintained. The user is advised that incorrect utilization of bridge deck formwork accessories, insufficient bolt penetration through a coil nut, or altering a product in any way can result in premature failure and expose workers to unsafe conditions. Reusable bridge deck forming accessories such as coil bolts, coil rods, etc., are subject to wear, misuse, overloading, corrosion, deformation, alteration and other factors that may affect safe working loads.

TECHNICAL DATA SHEET

It is the responsibility of the user to inspect reusable accessories for wear and/or misuse and to discard them if wear or misuse is detected. Dayton Superior recommends that all users of Dayton Superior reusable bridge deck forming products establish a quality control program to monitor and inspect their bridge deck forming accessories. The frequency of inspections is best determined by the user and is dependent on the type of product use, frequency of use, duration of use and the environmental conditions during use. Do not straighten bent forming accessories - discard them. Discard any reusable forming accessory that has been subjected to 70% or more of its ultimate load. Such items may have exceeded the yield value of the material and may have become brittle and hard. Extreme care must be exercised when field welding half hangers. Incorrectly made field welds may alter the strength and may limit the half hanger to a lower safe working load than its published maximum safe working load. Field tests should be always conducted to verify hangers actual safe working load.

INSTALLATION

SAFETY NOTE:

To meet the required SWL, use the chart below to determine the type & quantity of the coil nut to use.

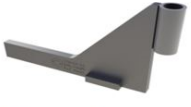


Coil Nut Type	Coil Rod Dia.	SWL (lbs.) 2:1 Safety factor Using 1 B13	SWL (lbs.) 2:1 Safety factor Using 2 B13 or 1 B25
B13	1/2"	6,000	9,000
B25	1-2"	-	9,000
B13	3/4"	9,000	18,000
B25	3/4"	-	18,000

RELATED PRODUCTS

- B12 Coil Rod - high tensile strength
- B13 Coil Nut
- B25 Coil Nut
- C110 Series
- C120 Series
- C130 Series
- C89, C89L
- C49, C49D, C49W, C49JR

HOW TO ORDER

- Specify:
 1. Flange width (if applicable)
 2. Flange thickness (if applicable)
 3. Tube angle
 4. Capacity
 5. HDG/EGlav/Plain
 6. Haunch 1 (if applicable)
 7. Haunch 2 (if applicable)

C110	C120	C130
		
<u>Required Parameters</u>	<u>Required Parameters</u>	<u>Required Parameters</u>
Capacity	Capacity	Capacity
Tube Angle	Tube Angle	Tube Angle
Flange Width	Flange Width	Flange Width
HDG / E-Galv / Plain	HDG / E-Galv / Plain	Flange Thickness
		HDG / E-Galv / Plain
<u>Optional Parameters</u>	<u>Optional Parameters</u>	<u>Optional Parameters</u>
Haunch	Haunch 1	Haunch
	Haunch 2	
Max 16"	Max 16"	Max 16"

NOTES: Tube angle configurations: 0°, 15°, 45°, 75°, or 90°.

** See Product Engineering for more custom parameters

MANUFACTURER

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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.