

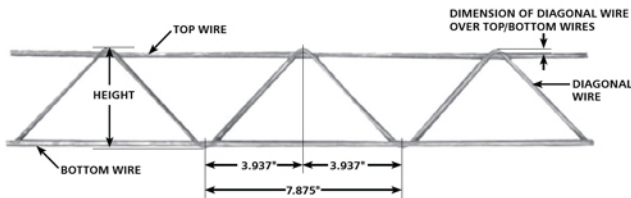
## TECHNICAL DATA SHEET

### DESCRIPTION

Dayton Superior offers the P12G Structural Welded Wire Girder as one method to meet the need for a unique shear connector adequate to properly transfer or distribute loads between panels.

Dayton Superior girder prevents undesirable energy transfer by eliminating solid concrete sections in the entire panel - no high stress points, no major thermal areas, no cold spots, no wet areas - and a more efficient and cost-effective insulated wall panel.

Most importantly, Welded Wire Girder not only connects the concrete widths through the insulation material, but has the resiliency to expand and contract with the independent thermal-induced movements of the outer width.



### TECHNICAL DATA

#### TOP WIRE:

Minimum: 4GA 0.225" diameter  
Maximum: 0GA 0.306" diameter

#### BOTTOM WIRE:

Minimum: 4GA 0.225" diameter  
Maximum: 0GA 0.306" diameter

#### DIAGONAL WIRE:

Minimum: 6GA 0.192" diameter  
Maximum: 3GA 0.243" diameter  
Minimum Yield Strength: 60 ksi

#### HEIGHT:

3" to 8.5" in increments of 1/2" (flush style)  
3" to 9" in increments of 1/2" (set back style)

#### LENGTH:

3'-11" to 34'-5"

#### FINISH:

Plain or hot dip galvanized

### TECHNICAL DATA

Product Description	Insulation Thickness (in.)	Shear Capacity (lbs./LF)*
6" X 10' 6" Recess #4 (4-3-4) USA	2"	3.80
7" X 10' 6" Recess #4 (4-3-4) USA	4"	2.11
9" X 10' 6" Recess #4 (4-3-4) USA	6"	1.93

#### Notes:

- 1- Ultimate Strength Per Linear foot using Double shear testing in accordance with the specifications of ICC-ES AC422 with a concrete wythe thickness of 3" and unbonded XPS Insulation.
- 2- Testing was performed in concrete specimens with compressive strengths ranging from 4900 to 6300 psi. Failure happens due to buckling the compression leg.
- 3- The test report is available on request.
- 4- Please contact Dayton Superior's Technical Services team for more information.

### INSTALLATION

1. Install bottom width mesh and place single girder in form, tie to mesh or pre-stressed cables.
2. Pour bottom width concrete, raise or rotate single girder to a vertical position such that 2/3 of the girder is standing out of concrete.
3. Install insulation board in strips between the girder and walk along the insulation board, pressing the insulation board in and around the girder diagonal wires. If any gaps or spaces occur, tape or caulk gaps to prevent concrete from bridging between bottom and top widths.
4. Install top width mesh and tie to girder, or to pre-stressed cables for support and proper positioning in center of top width. Place concrete to form top width.

### HOW TO ORDER

Quantity, name, height, length, wire diameters (top/bottom/diagonal), dimensions of diagonal over top/bottom wire, finish (top/bottom/diagonal).

### ORDERING INFORMATION

#### WELDED WIRE GIRDER - FOR PRECAST INSULATED WALL

#### PANELS - NON-GALVANIZED

Product Code	Description	Weight
101004	6" X 10' 6" RECESS #4 (4-3-4) USA	0.593 LB / FT
101464	6" X 11' 9-3/4" FLUSH (0-3-0) USA	0.824 LB / FT
100005	7" X 10' 6" RECESS #4 (4-3-4) USA	0.635 LB / FT
101598	7" X 10' 6" RECESS #4 (4-3-4)	0.635 LB / FT
101465	7" X 11' 9-3/4" FLUSH (0-3-0) USA	0.866 LB / FT
100006	8" X 10' 6" RECESS #4 (4-3-4) USA	0.678 LB / FT
100007	9" X 10' 6" RECESS #4 (4-3-4) USA	0.721 LB / FT
101466	9" X 11' 9-3/4" FLUSH (0-3-0) USA	0.952 LB / FT

## TECHNICAL DATA SHEET

**MANUFACTURER**

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