



PAC PRECISION SERIES, HWP16 - 24 GA Steel

Negative Design Loads Based on 3 Spans

Span (in feet)	AISI Design Load, 2.0 Safety Factor (psf)	USACE Design Load: 1.65 Safety Factor (psf)
1.00	-73.00	-88.48
1.25	-62.91	-76.25
1.50	-56.18	-68.09
1.75	-51.38	-62.27
2.00	-47.77	-57.90
2.25	-44.97	-54.50
2.50	-42.73	-51.79
2.75	-40.89	-49.56
3.00	-39.36	-47.70
3.25	-38.07	-46.14
3.50	-36.96	-44.79
3.75	-36.00	-43.63
4.00	-35.18	-42.64

NOTES

1. Results provided above based on 3-span conditions
2. Contact PAC local facility for 2-span or less conditions.
3. All tests performed by Farabaugh Engineering & Testing per ASTM E-330 Negative Uplift Testing
4. Results above provided in allowable Negative Wind Uplift per ASTM E-330 (psf)

11/1/2011

*Petersen Aluminum Corporation*  
 1005 Tonne Road  
 Elk Grove Village, IL 60007  
**tel: 800 323 1960**  
 fax: 800 722 7150

visit our website @ [www.pac-clad.com](http://www.pac-clad.com)



PAC PRECISION SERIES, HWP16 - 22 GA Steel

Negative Design Loads Based on 3 Spans

Span (in feet)	AISI Design Load, 2.0 Safety Factor (psf)	USACE Design Load: 1.65 Safety Factor (psf)
1.00	-87.45	-105.99
1.25	-83.85	-101.63
1.50	-81.45	-98.72
1.75	-79.74	-96.65
2.00	-78.45	-95.09
2.25	-77.45	-93.87
2.50	-76.65	-92.90
2.75	-76.00	-92.12
3.00	-75.45	-91.45
3.25	-74.99	-90.89
3.50	-74.60	-90.42
3.75	-74.25	-89.99
4.00	-73.95	-89.63

NOTES

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PAC PRECISION SERIES, HWP16 - .032 Aluminum

Negative Design Loads Based on 3 Spans

Span (in feet)	AISI Design Load, 2.0 Safety Factor (psf)	USACE Design Load: 1.65 Safety Factor (psf)
1.00	-34.00	-41.20
1.25	-30.76	-37.20
1.50	-28.61	-34.60
1.75	-27.12	-32.80
2.00	-25.95	-31.40
2.25	-25.05	-30.30
2.50	-24.33	-29.40
2.75	-23.74	-28.70
3.00	-23.24	-28.10
3.25	-22.85	-27.60
3.50	-22.49	-27.20
3.75	-22.21	-26.90
4.00	-21.95	-26.60

NOTES

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4. Results above provided in allowable Negative Wind Uplift per ASTM E-330 (psf)

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PAC PRECISION SERIES, HWP16 - .040 Aluminum

Negative Design Loads Based on 3 Spans

Span (in feet)	AISI Design Load, 2.0 Safety Factor (psf)	USACE Design Load: 1.65 Safety Factor (psf)
1.00	-47.36	-57.41
1.25	-45.31	-54.92
1.50	-43.95	-53.27
1.75	-42.96	-52.07
2.00	-42.23	-51.18
2.25	-41.66	-50.49
2.50	-41.24	-49.98
2.75	-40.83	-49.49
3.00	-40.55	-49.15
3.25	-40.25	-48.78
3.50	-40.05	-48.54
3.75	-39.85	-48.30
4.00	-39.68	-48.09

NOTES

1. Results provided above based on 3-span conditions
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4. Results above provided in allowable Negative Wind Uplift per ASTM E-330 (psf)

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