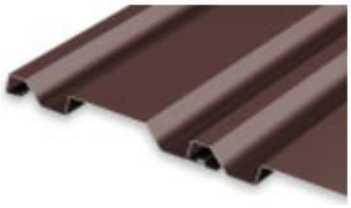
PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOADS/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLB1C @ 12" X 24 GA STEEL (w/clip)



PAC PRECISION SERIES HIGHLINE - B1

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	181.27
1.25	145.02
1.50	120.85
1.75	103.58
2.00	90.64
2.25	80.57
2.50	72.51
2.75	65.92
3.00	60.42
3.25	55.78
3.50	51.79
3.75	48.34
4.00	45.32

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

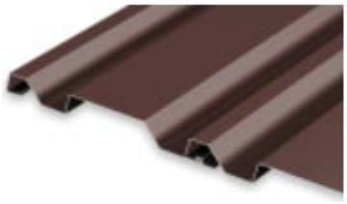
4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOADS/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLB1 @ 12" X 24 GA STEEL (w/fastener leg)



PAC PRECISION SERIES HIGHLINE - B1

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	153.73
1.25	122.98
1.50	102.48
1.75	87.84
2.00	76.86
2.25	68.32
2.50	61.49
2.75	55.90
3.00	51.24
3.25	47.30
3.50	43.92
3.75	40.99
4.00	38.43

CHANDER R. NANGIA LICENSE No. 21938 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/2/2017

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

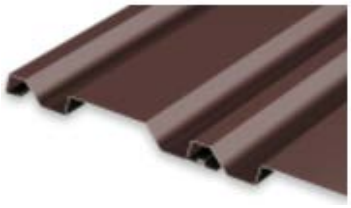
4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOADS/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLB1C @ 12" X .032 ALUMINUM (w/clip)



PAC PRECISION SERIES HIGHLINE - B1

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	201.91
1.25	161.53
1.50	134.61
1.75	115.38
2.00	100.95
2.25	89.74
2.50	80.76
2.75	69.82
3.00	58.67
3.25	49.99
3.50	43.10
3.75	37.55
4.00	33.00

CHANDER R. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/4/2017

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

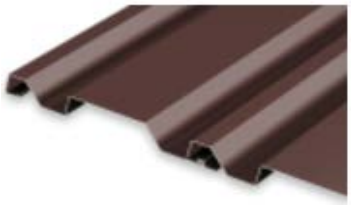
4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOADS/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLB1 @ 12" X .032 ALUMINUM (w/ fastener leg)



PAC PRECISION SERIES HIGHLINE - B1

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	124.45
1.25	99.56
1.50	82.97
1.75	71.12
2.00	62.23
2.25	55.31
2.50	49.78
2.75	45.26
3.00	41.48
3.25	38.29
3.50	35.56
3.75	33.19
4.00	31.11

CHANDER R. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/2/2017

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLB2C @ 16" X 24 GA STEEL (w/clip)

PAC PRECISION SERIES HIGHLINE - B2

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	152.45
1.25	121.96
1.50	101.64
1.75	87.12
2.00	76.23
2.25	67.76
2.50	60.98
2.75	55.44
3.00	50.82
3.25	46.91
3.50	43.56
3.75	40.65
4.00	38.11

CHANDER R. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/14/2017

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLB2 @ 16" X 24 GA STEEL (w/fastener leg)

PAC PRECISION SERIES HIGHLINE - B2

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	165.73
1.25	132.58
1.50	110.48
1.75	94.70
2.00	82.86
2.25	73.66
2.50	66.29
2.75	60.26
3.00	55.24
3.25	50.99
3.50	47.35
3.75	44.19
4.00	41.43

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

CHANDER R. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/2/2017

4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLB2C @ 16" X 032 ALUMINUM (w/clip leg)

PAC PRECISION SERIES HIGHLINE - B2

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	142.09
1.25	113.67
1.50	94.73
1.75	81.19
2.00	71.05
2.25	62.82
2.50	50.88
2.75	42.05
3.00	35.34
3.25	30.11
3.50	25.96
3.75	22.61
4.00	19.88

CHANDER R. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/4/2017

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLB2 @ 16" X 032 ALUMINUM (w/fastener leg)

PAC PRECISION SERIES HIGHLINE - B2

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	70.09
1.25	60.87
1.50	50.73
1.75	43.48
2.00	38.05
2.25	33.82
2.50	30.44
2.75	27.67
3.00	25.36
3.25	23.41
3.50	21.74
3.75	20.29
4.00	19.02

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

CHANDER R. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/4/2017

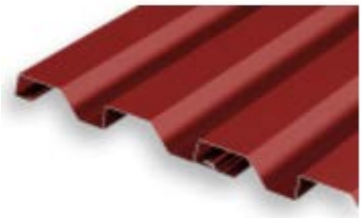
4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
800 PAC CLAD 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLC1C @ 12" X 24 GA STEEL (w/clip)



PAC PRECISION SERIES HIGHLINE - C1

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	227.91
1.25	182.33
1.50	151.94
1.75	130.23
2.00	113.95
2.25	101.29
2.50	91.16
2.75	82.88
3.00	75.97
3.25	70.13
3.50	65.12
3.75	60.78
4.00	56.98

CHANDER R. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/4/2017

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

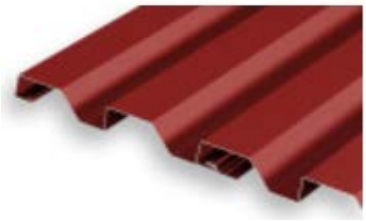
4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLC1 @ 12" X 24 GA STEEL (w/fastener leg)



PAC PRECISION SERIES HIGHLINE - C1

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	124.36
1.25	99.49
1.50	82.91
1.75	71.06
2.00	62.18
2.25	55.27
2.50	49.75
2.75	45.22
3.00	41.45
3.25	38.27
3.50	35.53
3.75	33.16
4.00	31.09

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

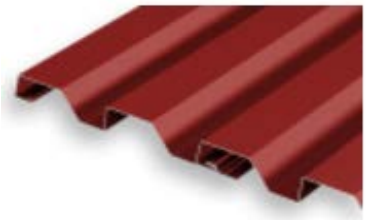
4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLC1C @ 12" X 032 ALUMINUM (w/clip leg)



PAC PRECISION SERIES HIGHLINE - C1

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	199.36
1.25	154.49
1.50	132.91
1.75	113.92
2.00	99.68
2.25	88.61
2.50	79.75
2.75	72.50
3.00	66.45
3.25	61.34
3.50	56.96
3.75	53.16
4.00	49.84

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

CHANDER R. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/4/2017

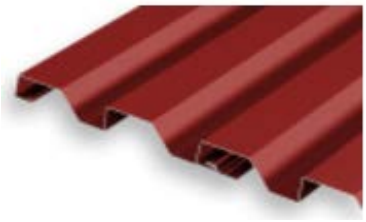
4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLC1 @ 12" X 032 ALUMINUM (w/fastener leg)



PAC PRECISION SERIES HIGHLINE - C1

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	140.27
1.25	112.22
1.50	93.52
1.75	80.16
2.00	70.14
2.25	62.34
2.50	56.11
2.75	51.01
3.00	46.76
3.25	43.16
3.50	40.08
3.75	37.41
4.00	35.07

CHANDER P. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/2/2017

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

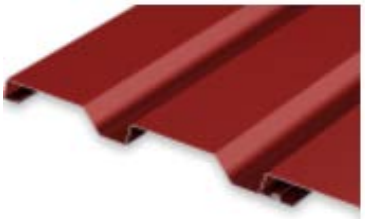
4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLC2C @ 16" X 24 GA STEEL (w/clip)



PAC PRECISION SERIES HIGHLINE - C2

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	142.45
1.25	113.96
1.50	94.97
1.75	81.40
2.00	71.23
2.25	63.31
2.50	56.98
2.75	51.80
3.00	47.48
3.25	43.83
3.50	40.70
3.75	37.99
4.00	35.61

CHANDER R. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/2/2017

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

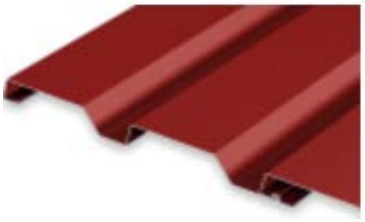
4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLC2 @ 16" X 24 GA STEEL (w/fastener leg)



PAC PRECISION SERIES HIGHLINE - C2

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	114.64
1.25	91.71
1.50	76.42
1.75	65.51
2.00	57.32
2.25	50.95
2.50	45.85
2.75	41.69
3.00	38.21
3.25	35.27
3.50	32.75
3.75	30.57
4.00	28.66

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

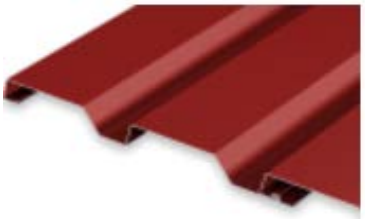
4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLC2C @ 16" X 032 ALUMINUM (w/clip leg)



PAC PRECISION SERIES HIGHLINE - C2

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	142.09
1.25	113.67
1.50	94.73
1.75	81.19
2.00	71.05
2.25	63.15
2.50	56.84
2.75	51.67
3.00	47.36
3.25	43.72
3.50	40.60
3.75	37.89
4.00	35.52

CHANDER R. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/4/2017

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

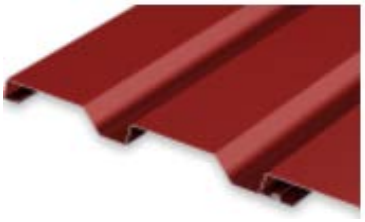
4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLC2 @ 16" X 032 ALUMINUM (w/fastener leg)



PAC PRECISION SERIES HIGHLINE - C2

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	95.00
1.25	76.00
1.50	63.33
1.75	54.29
2.00	47.50
2.25	42.22
2.50	38.00
2.75	34.55
3.00	31.67
3.25	29.23
3.50	27.14
3.75	25.33
4.00	23.75

CHANDER R. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/24/2017

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLM1C @ 12" X 24 GA STEEL (w/clip)

PAC PRECISION SERIES HIGHLINE - M1

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	181.27
1.25	145.02
1.50	120.85
1.75	103.58
2.00	90.64
2.25	80.57
2.50	72.51
2.75	65.92
3.00	60.42
3.25	55.78
3.50	51.79
3.75	48.34
4.00	45.32

CHANDER R. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/4/2017

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLM1 @ 12" X 24 GA STEEL (w/fastener leg)

PAC PRECISION SERIES HIGHLINE - M1

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	153.09
1.25	122.47
1.50	102.06
1.75	87.48
2.00	76.55
2.25	68.04
2.50	61.24
2.75	55.67
3.00	51.03
3.25	47.10
3.50	43.74
3.75	40.82
4.00	38.27

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLM1C @ 12" X 032 ALUMINUM (w/clip leg)

PAC PRECISION SERIES HIGHLINE - M1

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	189.91
1.25	151.93
1.50	126.61
1.75	108.52
2.00	94.95
2.25	84.40
2.50	75.96
2.75	69.06
3.00	63.30
3.25	58.43
3.50	54.26
3.75	50.64
4.00	47.48

CHANDER R. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/4/2017

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLM1 @ 12" X 032 ALUMINUM (w/fastener leg)

PAC PRECISION SERIES HIGHLINE - M1

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	133.18
1.25	106.55
1.50	88.79
1.75	76.10
2.00	66.59
2.25	59.19
2.50	53.27
2.75	48.43
3.00	44.39
3.25	40.98
3.50	38.05
3.75	35.52
4.00	33.30

CHANDER R. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/2/2017

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLS1C @ 12" X 24 GA STEEL (w/clip)

PAC PRECISION SERIES HIGHLINE - S1

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	181.27
1.25	145.02
1.50	120.85
1.75	103.58
2.00	90.64
2.25	80.57
2.50	72.51
2.75	65.92
3.00	60.42
3.25	55.78
3.50	51.79
3.75	48.34
4.00	45.32

CHANDER R. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/4/2017

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLS1 @ 12" X 24 GA STEEL (w/fastener leg)

PAC PRECISION SERIES HIGHLINE - S1

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	134.73
1.25	107.78
1.50	89.82
1.75	76.99
2.00	67.36
2.25	59.88
2.50	53.89
2.75	48.99
3.00	44.91
3.25	41.45
3.50	38.49
3.75	35.93
4.00	33.68

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLS1C @ 12" X 032 ALUMINUM (w/clip leg)

PAC PRECISION SERIES HIGHLINE - S1

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	99.73
1.25	79.78
1.50	66.48
1.75	56.99
2.00	49.86
2.25	44.32
2.50	39.89
2.75	32.26
3.00	33.24
3.25	30.69
3.50	28.49
3.75	26.59
4.00	24.93

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

CHANDER P. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/24/2017

4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLS1 @ 12" X 032 ALUMINUM (w/fastener leg)

PAC PRECISION SERIES HIGHLINE - S1

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	95.18
1.25	76.15
1.50	63.45
1.75	54.39
2.00	47.59
2.25	42.30
2.50	38.07
2.75	34.61
3.00	31.73
3.25	29.29
3.50	27.19
3.75	25.38
4.00	23.07

CHANDER R. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/2/2017

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

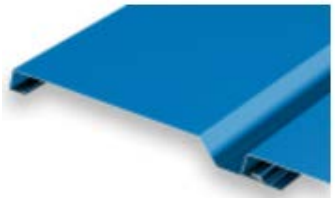
4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLS2C @ 16" X 22 GA STEEL (w/clip)



PAC PRECISION SERIES HIGHLINE - S2

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	180.62
1.25	144.65
1.50	120.55
1.75	103.32
2.00	90.41
2.25	80.36
2.50	72.33
2.75	65.75
3.00	60.27
3.25	55.64
3.50	51.66
3.75	48.22
4.00	45.20

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

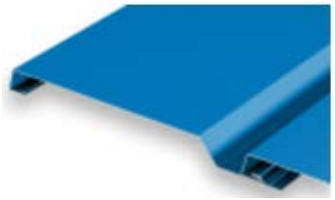
4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLS2 @ 16" X 22 GA STEEL (w/fastener leg)



PAC PRECISION SERIES HIGHLINE - S2

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	105.18
1.25	84.15
1.50	70.12
1.75	60.10
2.00	52.59
2.25	46.75
2.50	42.07
2.75	38.25
3.00	35.06
3.25	32.36
3.50	30.05
3.75	28.05
4.00	26.30

CHANDER R. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/4/2017

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

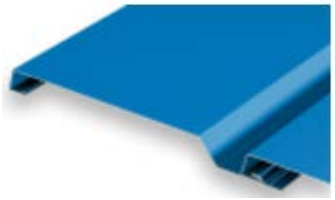
4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLS2C @ 16" X 050 ALUMINUM (w/clip leg)



PAC PRECISION SERIES HIGHLINE - S2

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	142.09
1.25	113.67
1.50	94.73
1.75	81.19
2.00	65.35
2.25	51.63
2.50	41.82
2.75	34.57
3.00	29.04
3.25	24.75
3.50	21.34
3.75	18.59
4.00	16.34

CHANDER R. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/2/2017

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

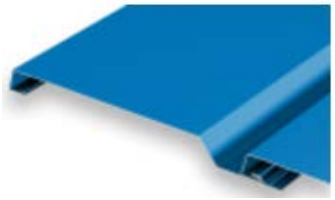
4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM

PAC-CLAD
PETERSEN

NEGATIVE WIND PRESSURE LOAD/SPAN CHART
PETERSEN ALUMINUM - PRECISION HIGHLINE SERIES
HLS2 @ 16" X 050 ALUMINUM (w/fastener leg)



PAC PRECISION SERIES HIGHLINE - S2

THREE OR MORE EQUAL SPANS	
Span (in feet)	(-) w (PSF)
1.00	76.09
1.25	60.87
1.50	50.73
1.75	43.48
2.00	38.05
2.25	33.82
2.50	30.44
2.75	27.67
3.00	25.36
3.25	23.41
3.50	21.74
3.75	19.01
4.00	16.71

CHANDER R. NANGIA
LICENSE
No. 21938
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/2/2017

NOTES

1 (-) W = Allowable Uniform Wind Pressure, psf
2 Charted values consider Bending Stress, Connection Strength and a deflection limit of L/180
3 Allowable Bending Stress determination considers a Factor-of-Safety of 1.65
4 Allowable Connection Strength determination considers a Factor-of-Safety of 2.0
5 Negative wind pressure testing utilized ASTM E-330 protocol.
6 Tests were performed by Farabaugh Engineering & Testing, Inc.
7 Section of Properties determination based on the latest edition of the AISI Specification or Aluminum Association Testing.

4/13/2017

Petersen Aluminum Corporation
1005 Tonne Road, Elk Grove Village, IL 60007
P 800 PAC CLAD F 800 722 7150

PAC-CLAD.COM