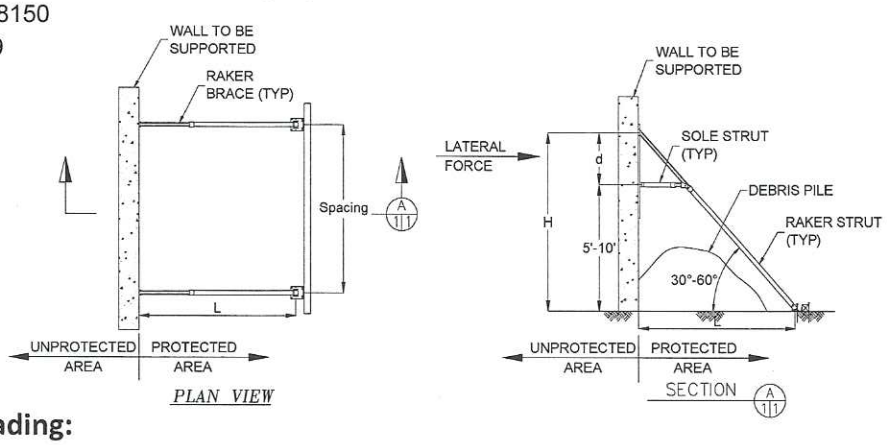
Airshore Flying Raker Rail Assembly

HURST JAWS OF LIFE® AIRSHORE

711 North Post Rd Shelby, NC 28150
704-487-6961 800-537-2659

Examples For Use of This Tabulated Data:

Wall Bracing Against Wind and Seismic Forces



Braced Wall Against Wind Loading:

Example: Use rakers to support a wall that is 12' high. The maximum anticipated wind speed is 50 mph. There is debris against the wall that requires the bottom "Sole Strut" to be at a height of 6' from ground surface.

Predicted Lateral Force-Wind	
Wind Speed (mph)	Force PSF
40	11.0
50	***17.2***
60	24.7
70	33.6
80	43.9
90	55.6

Table 1

* Allowable Values Are Bold

30 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	***7.5***	***13***	***4***	***25.3***
24	***8***	***14***	***4***	***21.6***
30	***8.5***	***14.75***	***4***	***18.3***
36	9	15.5	4	16.5
42	9.5	16.5	4	14.8
48	10	17.25	4	13.4
54	10.5	18.25	4	12.5
60	11	19	4	11.2

45 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	***7.5***	***7.5***	***5***	***30.3***
24	***8***	***8***	***5***	***25.1***
30	***8.5***	***8.5***	***5***	***21.8***
36	***9***	***9***	***5***	***18.8***
42	9.5	9.5	5	17.1
48	10	10	5	16.1
54	10.5	10.5	5	14.6
60	11	11	5	13.8

60 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	***7.5***	***4.25***	***6***	***31.1***
24	***8***	***4.5***	***6***	***25.6***
30	***8.5***	***5***	***6***	***21.8***
36	***9***	***5.25***	***6***	***19.5***
42	***9.5***	***5.5***	***6***	***17.4***
48	10	5.75	6	16.0
54	10.5	6	6	14.6
60	11	6.5	6	13.8

Braced Concrete Wall Against Seismic Loading:

Example: Use rakers to support a wall that is 12' high. The maximum thickness of the concrete wall to be supported is 8". There is debris against the wall that requires the bottom "Sole Strut" to be at a height of 6' from ground surface.

Seismic Force = 0.3 x Weight	
Concrete Wall Thickness (in)	Force PSF
6	22.5
8	***30.0***
12	45.0

Table 2

* Allowable Values Are Bold

45 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	***7.5***	***7.5***	***5***	***30.3***
24	8	8	5	25.1
30	8.5	8.5	5	21.8
36	9	9	5	18.8
42	9.5	9.5	5	17.1
48	10	10	5	16.1
54	10.5	10.5	5	14.6
60	11	11	5	13.8

60 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	***7.5***	***4.25***	***6***	***31.1***
24	8	4.5	6	25.6
30	8.5	5	6	21.8
36	9	5.25	6	19.5
42	9.5	5.5	6	17.4
48	10	5.75	6	16.0
54	10.5	6	6	14.6
60	11	6.5	6	13.8

AIRSHORE FLYING RAKER RAIL ASSEMBLY

J.M. TURNER ENGINEERING, INC.
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Airshore Flying Raker Rail Assembly

Notes:

1) Rakers should be connected to the piece being shored or they should be cross braced using a minimum of 2x6 cross bracing.

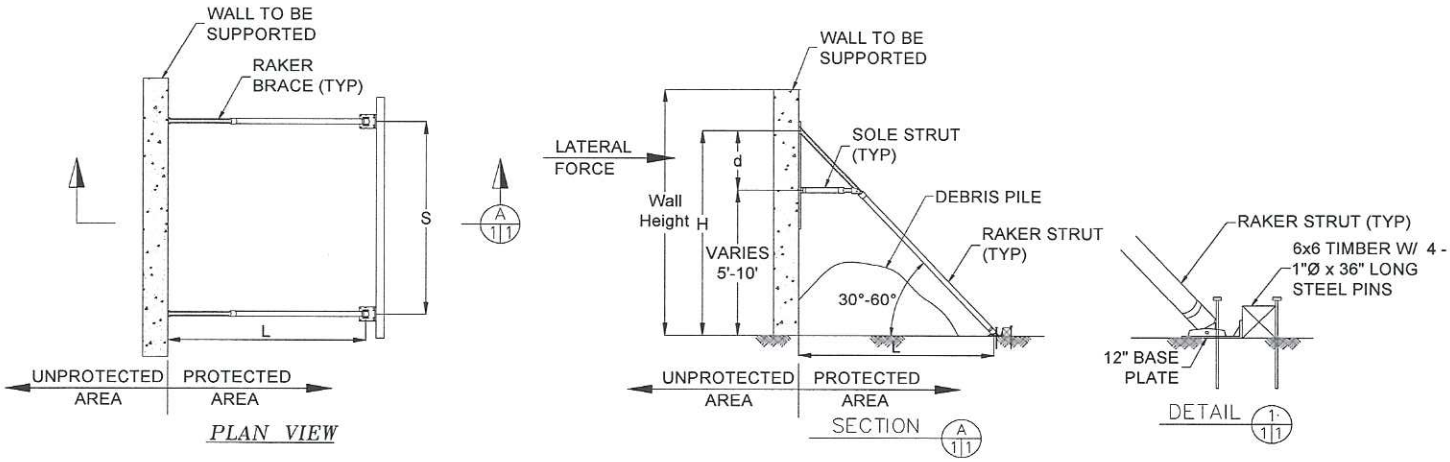
2) Raker brace shall be configured so that the angle between the raker brace and the ground does not fall below 30 degrees or exceed 60 degrees.

3) Light Duty or Heavy Duty Rails shall be used.

4) Use 1" diameter x 36" long steel pins to anchor base plates to the ground.

5) After braces are firmly in place they should be locked into place using locking mechanism.

6) The Raker Brace System is intended for use in emergency situations. Caution should be used during installation and the installation should be checked by an engineer if they are left in place for any length of time.



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Airshore Flying Raker Rail Assembly

Maximum Wall Height = 12 ft

Predicted Lateral Force-Wind	
Wind Speed (mph)	Force PSF
40	11.0
50	17.2
60	24.7
70	33.6
80	43.9
90	55.6

Table 1

Seismic Force = 0.3 x Weight	
Concrete Wall Thickness (in)	Force PSF
6	22.5
8	30.0
12	45.0

Table 2

Maximum Wall Height = 12'
Horizontal Strut Location = 5' From Ground Surface

30 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	6.5	11.25	4	32.2
24	7	12	4	27.3
30	7.5	13	4	23.7
36	8	14	4	20.6
42	8.5	14.75	4	18.5
48	9	15.5	4	16.5
54	9.5	16.5	4	15.4
60	10	17.25	4	14.3

45 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	6.5	6.5	5	37.6
24	7	7	5	30.9
30	7.5	7.5	5	26.6
36	8	8	5	23.4
42	8.5	8.5	5	21.3
48	9	9	5	19.3
54	9.5	9.5	5	18.0
60	10	10	5	16.9

60 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	6.5	3.75	6	37.0
24	7	4	6	30.0
30	7.5	4.25	6	26.1
36	8	4.5	6	23.1
42	8.5	5	6	20.5
48	9	5.25	6	19.2
54	9.5	5.5	6	18.0
60	10	5.75	6	16.9

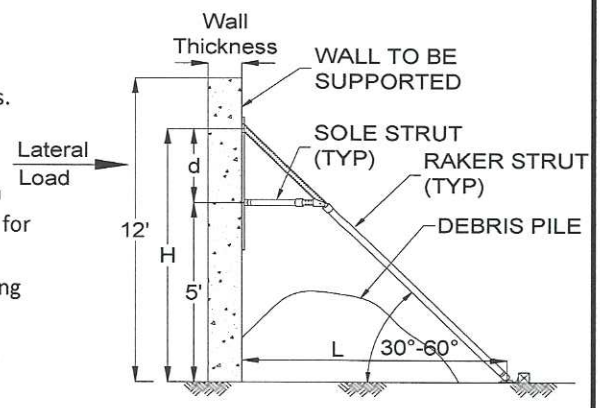
Instructions For Use of Tabulted Data:

For Applications to Resist Wind Loads:

1) Determine the maximum anticipated wind speed. The corresponding wind force can be found in Table 1.
2) Determine the required clearance from ground surface to the bottom "Sole Strut" for debris and/or other items.
3) Choose the strut orientation and spacing to be used from the tables labeled "30 degrees", "45 degrees", and "60 degrees". The required wall pressure from Table 1 must be less than the max wall pressure specified for the chosen strut orientation.

For Applications to Resist Seismic Loads on Concrete Walls:

1) Determine the maximum wall thickness. The corresponding seismic force can be found in Table 2.
2) Determine the required clearance from ground surface to the bottom "Sole Strut" for debris and/or other items.
3) Choose the strut orientation and spacing to be used from the tables labeled "30 degrees", "45 degrees", and "60 degrees". The required wall pressure from Table 1 must be less than the max wall pressure specified for the chosen strut orientation.



For Applications to Resist Other Lateral Loads:

1) Determine the maximum lateral pressure that will be exerted on the wall to be supported.
2) Determine the required clearance from ground surface to the bottom "Sole Strut" for debris and/or other items.
3) Choose the strut orientation and spacing to be used from the tables labeled "30 degrees", "45 degrees", and "60 degrees". The required wall pressure from Table 1 must be less than the max wall pressure specified for the chosen strut orientation.

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Maximum Wall Height = 13 ft

Predicted Lateral Force-Wind	
Wind Speed (mph)	Force PSF
40	11.0
50	17.2
60	24.7
70	33.6
80	43.9
90	55.6

Table 1

Seismic Force = 0.3 x Weight	
Concrete Wall Thickness (in)	Force PSF
6	22.5
8	30.0
12	45.0

Table 2

Maximum Wall Height = 13'
Horizontal Strut Location = 6' From Ground Surface

30 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	7.5	13	4	25.3
24	8	14	4	21.6
30	8.5	14.75	4	18.3
36	9	15.5	4	16.5
42	9.5	16.5	4	14.8
48	10	17.25	4	13.4
54	10.5	18.25	4	12.5
60	11	19	4	11.2

45 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	7.5	7.5	5	30.3
24	8	8	5	25.1
30	8.5	8.5	5	21.8
36	9	9	5	18.8
42	9.5	9.5	5	17.1
48	10	10	5	16.1
54	10.5	10.5	5	14.6
60	11	11	5	13.8

60 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	7.5	4.25	6	31.1
24	8	4.5	6	25.6
30	8.5	5	6	21.8
36	9	5.25	6	19.5
42	9.5	5.5	6	17.4
48	10	5.75	6	16.0
54	10.5	6	6	14.6
60	11	6.5	6	13.8

Instructions For Use of Tabulted Data:

For Applications to Resist Wind Loads:

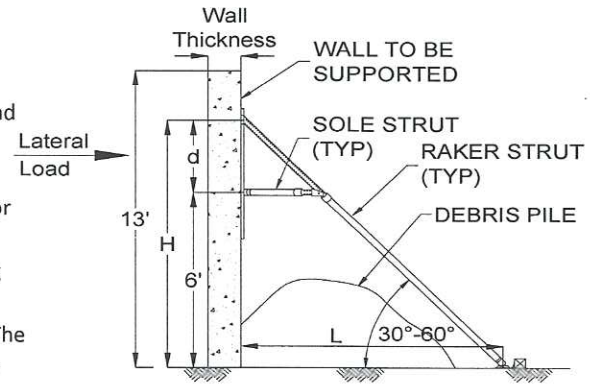
1) Determine the maximum anticipated wind speed. The corresponding wind force can be found in Table 1.
2) Determine the required clearance from ground surface to the bottom "Sole Strut" for debris and/or other items.
3) Choose the strut orientation and spacing to be used from the tables labeled "30 degrees", "45 degrees", and "60 degrees". The required wall pressure from Table 1 must be less than the max wall pressure specified for the chosen strut orientation.

For Applications to Resist Other Lateral Loads:

1) Determine the maximum lateral pressure that will be exerted on the wall to be supported.
2) Determine the required clearance from ground surface to the bottom "Sole Strut" for debris and/or other items.
3) Choose the strut orientation and spacing to be used from the tables labeled "30 degrees", "45 degrees", and "60 degrees". The required wall pressure from Table 1 must be less than the max wall pressure specified for the chosen strut orientation.

For Applications to Resist Seismic Loads on Concrete Walls:

1) Determine the maximum wall thickness. The corresponding seismic force can be found in Table 2.
2) Determine the required clearance from ground surface to the bottom "Sole Strut" for debris and/or other items.
3) Choose the strut orientation and spacing to be used from the tables labeled "30 degrees", "45 degrees", and "60 degrees". The required wall pressure from Table 1 must be less than the max wall pressure specified for the chosen strut orientation.



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Airshore Flying Raker Rail Assembly

Maximum Wall Height = 14 ft

Predicted Lateral Force-Wind	
Wind Speed (mph)	Force PSF
30	6.2
40	11.0
50	17.2
60	24.7
70	33.6
80	43.9

Table 1

Seismic Force = 0.3 x Weight	
Concrete Wall Thickness (in)	Force PSF
6	22.5
8	30.0
12	45.0

Table 2

Maximum Wall Height = 14'
Horizontal Strut Location = 7' From Ground Surface

30 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	8.5	14.75	4	19.8
24	9	15.5	4	17.0
30	9.5	16.5	4	14.9
36	10	17.25	4	13.0
42	10.5	18.25	4	11.8
48	11	19	4	11.0
54	11.5	20	4	9.9
60	12	20.75	4	9.3

45 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	8.5	8.5	5	25.1
24	9	9	5	20.9
30	9.5	9.5	5	18.2
36	10	10	5	16.3
42	10.5	10.5	5	14.5
48	11	11	5	13.3
54	11.5	11.5	5	12.1
60	12	12	5	11.4

60 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	8.5	5	6	26.8
24	9	5.25	6	21.8
30	9.5	5.5	6	18.7
36	10	5.75	6	16.4
42	10.5	6	6	14.7
48	11	6.5	6	13.6
54	11.5	6.5	6	12.5
60	12	7	6	11.8

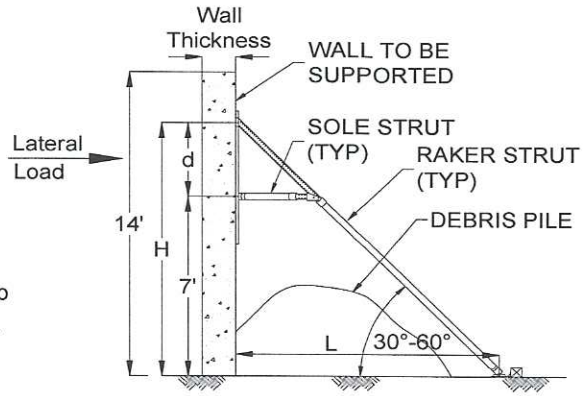
Instructions For Use of Tabulted Data:

For Applications to Resist Wind Loads:

1) Determine the maximum anticipated wind speed. The corresponding wind force can be found in Table 1.
2) Determine the required clearance from ground surface to the bottom "Sole Strut" for debris and/or other items.
3) Choose the strut orientation and spacing to be used from the tables labeled "30 degrees", "45 degrees", and "60 degrees". The required wall pressure from Table 1 must be less than the max wall pressure specified for the chosen strut orientation.

For Applications to Resist Seismic Loads on Concrete Walls:

1) Determine the maximum wall thickness. The corresponding seismic force can be found in Table 2.
2) Determine the required clearance from ground surface to the bottom "Sole Strut" for debris and/or other items.
3) Choose the strut orientation and spacing to be used from the tables labeled "30 degrees", "45 degrees", and "60 degrees". The required wall pressure from Table 1 must be less than the max wall pressure specified for the chosen strut orientation.



For Applications to Resist Other Lateral Loads:

1) Determine the maximum lateral pressure that will be exerted on the wall to be supported.
2) Determine the required clearance from ground surface to the bottom "Sole Strut" for debris and/or other items.
3) Choose the strut orientation and spacing to be used from the tables labeled "30 degrees", "45 degrees", and "60 degrees". The required wall pressure from Table 1 must be less than the max wall pressure specified for the chosen strut orientation.

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AIRSHORE FLYING RAKER RAIL ASSEMBLY

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Maximum Wall Height = 16 ft

Predicted Lateral Force-Wind	
Wind Speed (mph)	Force PSF
20	2.7
30	6.2
40	11.0
50	17.2
60	24.7
70	33.6

Table 1

Seismic Force = 0.3 x Weight	
Concrete Wall Thickness (in)	Force PSF
6	22.5
8	30.0
12	45.0

Table 2

Maximum Wall Height = 16'
Horizontal Strut Location = 8' From Ground Surface

30 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	9.5	16.50	4	14.9
24	10	17.25	4	12.8
30	10.5	18.25	4	11.2
36	11	19.00	4	10.2
42	11.5	20.00	4	9.2
48	12	20.75	4	8.4
54	12.5	21.75	4	7.8
60	13	22.50	4	7.4

45 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	9.5	9.5	5	19.9
24	10	10	5	16.7
30	10.5	10.5	5	14.2
36	11	11	5	12.7
42	11.5	11.5	5	11.7
48	12	12	5	10.4
54	12.5	12.5	5	9.9
60	13	13	5	9.0

60 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	9.5	5.50	6	21.7
24	10	5.75	6	17.7
30	10.5	6.00	6	15.3
36	11	6.50	6	13.5
42	11.5	6.50	6	12.2
48	12	7.00	6	11.0
54	12.5	7.25	6	10.1
60	13	7.50	6	9.6

Instructions For Use of Tabulted Data:

For Applications to Resist Wind Loads:

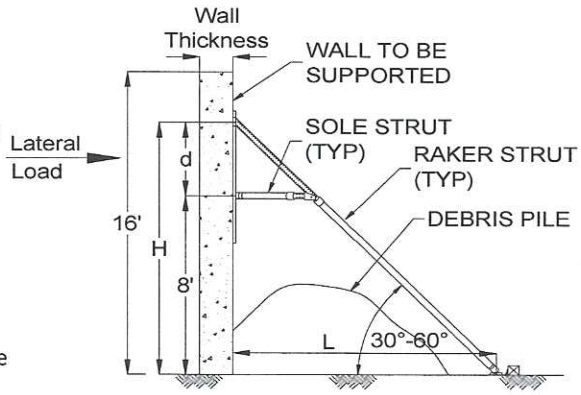
1) Determine the maximum anticipated wind speed. The corresponding wind force can be found in Table 1.
2) Determine the required clearance from ground surface to the bottom "Sole Strut" for debris and/or other items.
3) Choose the strut orientation and spacing to be used from the tables labeled "30 degrees", "45 degrees", and "60 degrees". The required wall pressure from Table 1 must be less than the max wall pressure specified for the chosen strut orientation.

For Applications to Resist Seismic Loads on Concrete Walls:

1) Determine the maximum wall thickness. The corresponding seismic force can be found in Table 2.
2) Determine the required clearance from ground surface to the bottom "Sole Strut" for debris and/or other items.
3) Choose the strut orientation and spacing to be used from the tables labeled "30 degrees", "45 degrees", and "60 degrees". The required wall pressure from Table 1 must be less than the max wall pressure specified for the chosen strut orientation.

For Applications to Resist Other Lateral Loads:

1) Determine the maximum lateral pressure that will be exerted on the wall to be supported.
2) Determine the required clearance from ground surface to the bottom "Sole Strut" for debris and/or other items.
3) Choose the strut orientation and spacing to be used from the tables labeled "30 degrees", "45 degrees", and "60 degrees". The required wall pressure from Table 1 must be less than the max wall pressure specified for the chosen strut orientation.



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Maximum Wall Height = 18 ft

Predicted Lateral Force-Wind	
Wind Speed (mph)	Force PSF
20	2.7
30	6.2
40	11.0
50	17.2
60	24.7
70	33.6

Table 1

Seismic Force = 0.3 x Weight	
Concrete Wall Thickness (in)	Force PSF
6	22.5
8	30.0
12	45.0

Table 2

Maximum Wall Height = 18'
Horizontal Strut Location = 9' From Ground Surface

30 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	10.5	18.25	4	11.5
24	11	19.00	4	9.9
30	11.5	20.00	4	9.0
36	12	20.75	4	7.9
42	12.5	21.75	4	7.2
48	13	22.50	4	6.8
54	13.5	23.50	4	6.1
60	14	24.25	4	5.7

45 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	10.5	10.5	5	15.9
24	11	11	5	13.4
30	11.5	11.5	5	11.7
36	12	12	5	10.5
42	12.5	12.5	5	9.5
48	13	13	5	8.7
54	13.5	13.5	5	8.0
60	14	14	5	7.3

60 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	10.5	6.00	6	18.0
24	11	6.50	6	14.8
30	11.5	6.50	6	12.6
36	12	7.00	6	11.2
42	12.5	7.25	6	10.1
48	13	7.50	6	9.1
54	13.5	7.75	6	8.4
60	14	8.00	6	8.0

Instructions For Use of Tabulted Data:

For Applications to Resist Wind Loads:

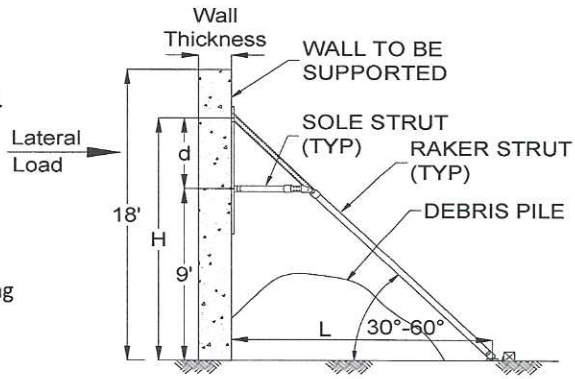
1) Determine the maximum anticipated wind speed. The corresponding wind force can be found in Table 1.
2) Determine the required clearance from ground surface to the bottom "Sole Strut" for debris and/or other items.
3) Choose the strut orientation and spacing to be used from the tables labeled "30 degrees", "45 degrees", and "60 degrees". The required wall pressure from Table 1 must be less than the max wall pressure specified for the chosen strut orientation.

For Applications to Resist Other Lateral Loads:

1) Determine the maximum lateral pressure that will be exerted on the wall to be supported.
2) Determine the required clearance from ground surface to the bottom "Sole Strut" for debris and/or other items.
3) Choose the strut orientation and spacing to be used from the tables labeled "30 degrees", "45 degrees", and "60 degrees". The required wall pressure from Table 1 must be less than the max wall pressure specified for the chosen strut orientation.

For Applications to Resist Seismic Loads on Concrete Walls:

1) Determine the maximum wall thickness. The corresponding seismic force can be found in Table 2.
2) Determine the required clearance from ground surface to the bottom "Sole Strut" for debris and/or other items.
3) Choose the strut orientation and spacing to be used from the tables labeled "30 degrees", "45 degrees", and "60 degrees". The required wall pressure from Table 1 must be less than the max wall pressure specified for the chosen strut orientation.



REGISTERED PROFESSIONAL ENGINEER
ADRIANUS J. VERMEULEN
No. 69082
Exp. 6/30/14
CIVIL
STATE OF CALIFORNIA

AIRSHORE FLYING RAKER RAIL ASSEMBLY

J.M. TURNER ENGINEERING, INC.
CONSULTING ENGINEERS
1325 COLLEGE AVE., SANTA ROSA, CA. 95404
(707) 528-4503 FAX (707) 528-4505

DATE:	REV DATE:	JOB NO:
10/18/2010	3/13/2012	13088-1

Airshore Flying Raker Rail Assembly

HURST JAWS OF LIFE® AIRSHORE

711 North Post Rd Shelby, NC 28150
704-487-6961 800-537-2659

Maximum Wall Height = 20 ft

Predicted Lateral Force-Wind	
Wind Speed (mph)	Force PSF
20	2.7
30	6.2
40	11.0
50	17.2
60	24.7
70	33.6

Table 1

Seismic Force = 0.3 x Weight	
Concrete Wall Thickness (in)	Force PSF
6	22.5
8	30.0
12	45.0

Table 2

Maximum Wall Height = 20'
Horizontal Strut Location = 10' From Ground Surface

30 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	11.5	20.00	4	9.1
24	12	20.75	4	7.8
30	12.5	21.75	4	7.1
36	13	22.50	4	6.5
42	13.5	23.50	4	5.9
48	14	24.25	4	5.4
54	14.5	25.00	4	5.0
60	15	26.00	4	4.7

45 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	11.5	11.5	5	13.0
24	12	12	5	10.9
30	12.5	12.5	5	9.6
36	13	13	5	8.7
42	13.5	13.5	5	7.8
48	14	14	5	7.2
54	14.5	14.5	5	6.6
60	15	15	5	6.1

60 degrees				
d (in)	H (ft)	L (ft)	Max Spacing	Max Wall Pressure (psf)
18	11.5	6.50	6	15.0
24	12	7.00	6	12.4
30	12.5	7.25	6	10.8
36	13	7.50	6	9.4
42	13.5	7.75	6	8.5
48	14	8.00	6	7.7
54	14.5	8.50	6	7.2
60	15	8.75	6	6.6

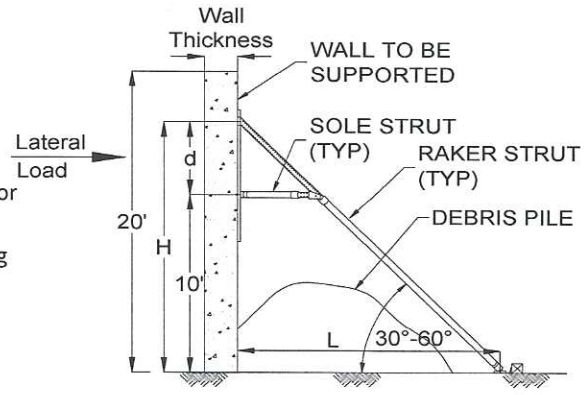
Instructions For Use of Tabulted Data:

For Applications to Resist Wind Loads:

1) Determine the maximum anticipated wind speed. The corresponding wind force can be found in Table 1.
2) Determine the required clearance from ground surface to the bottom "Sole Strut" for debris and/or other items.
3) Choose the strut orientation and spacing to be used from the tables labeled "30 degrees", "45 degrees", and "60 degrees". The required wall pressure from Table 1 must be less than the max wall pressure specified for the chosen strut orientation.

For Applications to Resist Seismic Loads on Concrete Walls:

1) Determine the maximum wall thickness. The corresponding seismic force can be found in Table 2.
2) Determine the required clearance from ground surface to the bottom "Sole Strut" for debris and/or other items.
3) Choose the strut orientation and spacing to be used from the tables labeled "30 degrees", "45 degrees", and "60 degrees". The required wall pressure from Table 1 must be less than the max wall pressure specified for the chosen strut orientation.



For Applications to Resist Other Lateral Loads:

1) Determine the maximum lateral pressure that will be exerted on the wall to be supported.
2) Determine the required clearance from ground surface to the bottom "Sole Strut" for debris and/or other items.
3) Choose the strut orientation and spacing to be used from the tables labeled "30 degrees", "45 degrees", and "60 degrees". The required wall pressure from Table 1 must be less than the max wall pressure specified for the chosen strut orientation.

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