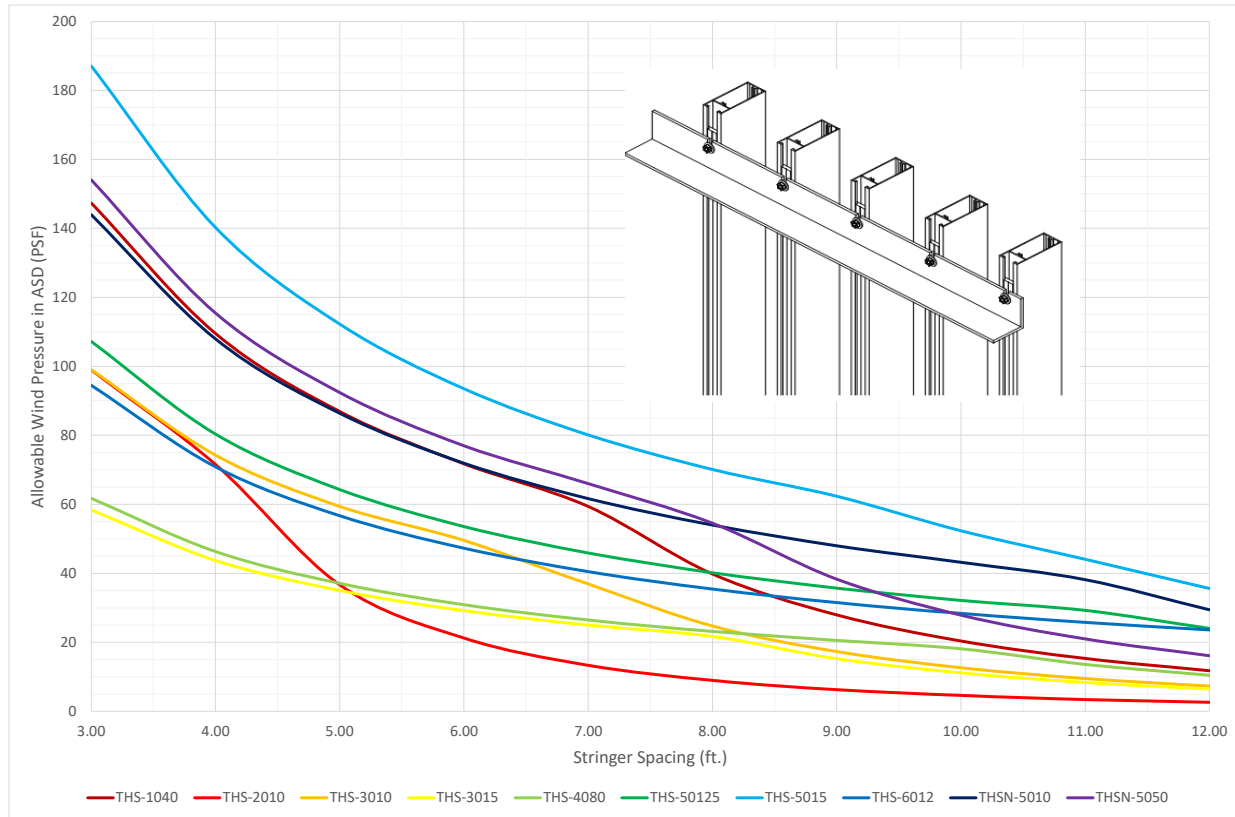


# TECHNICAL INFORMATION

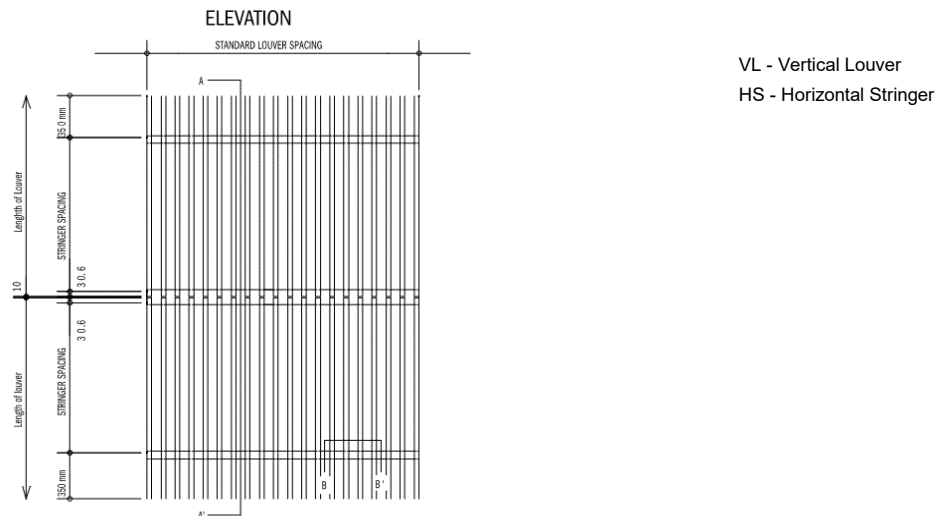
## Windload Data

**FIGURE L1: VERTICAL LOUVERS TO HORIZONTAL STRINGER GRAPH**



**Assumptions**

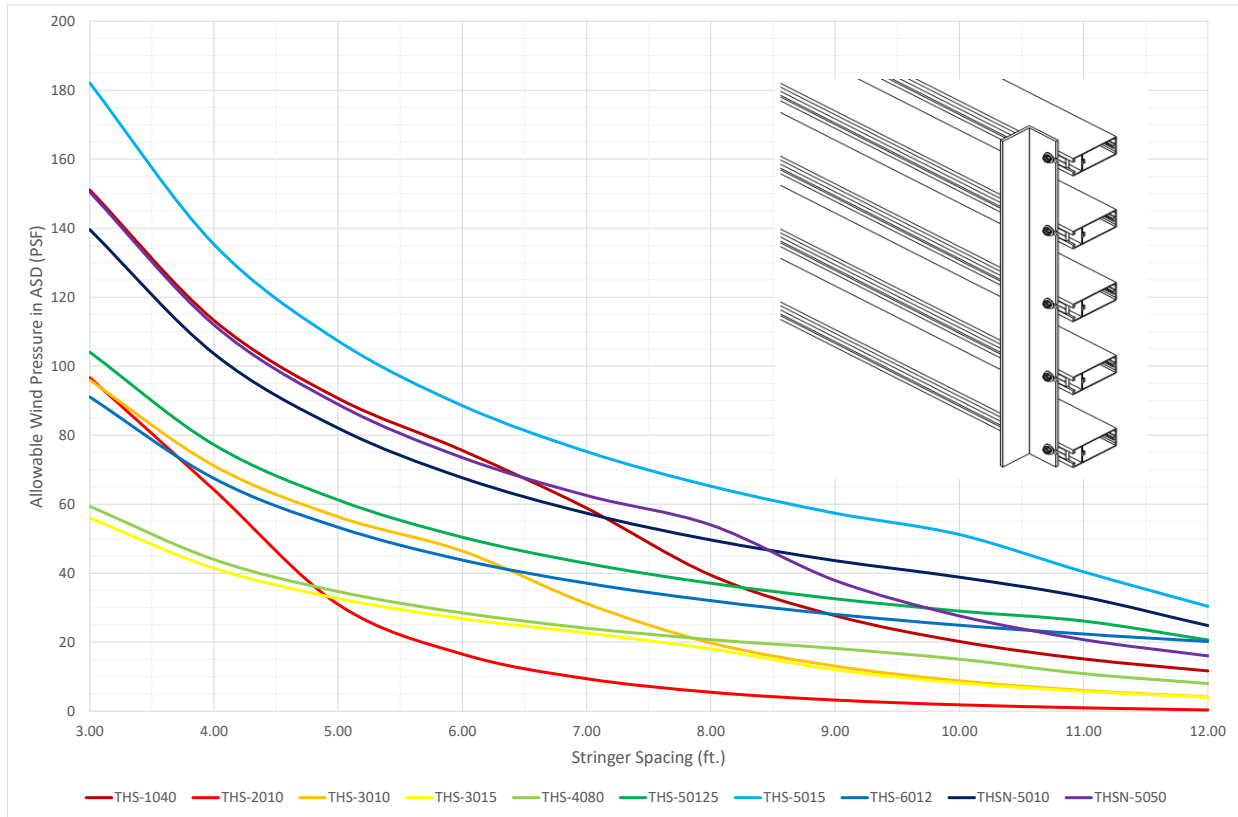
- This chart displays vertical extrusion installation with horizontal support stringers (Assumes continuous span, min 3 bays)
- Capacities Assume the Following
  - Horizontal stringer connections back to structure at 16" o.c. max.
  - Louvers spaced no closer than **3** " o.c. for all extrusions other than THS-1040 then **6** " o.c.
  - No opinion is given to capacity of connection of stringer to structure or structure capacity
  - These capacities apply to full assembly of Louvers and Stringers STAL-7, STAL-8
  - Attachment of Stringer to Structure Capacity may govern design and should be investigated. Capacity per connections Graphs (C1, C4) Tables (T1, T4, T5)



# TECHNICAL INFORMATION

## Windload Data

**FIGURE L2: HORIZONTAL LOUVERS WITH VERTICAL STRINGER GRAPH**



### Assumptions

-This chart displays vertical extrusion installation with horizontal support stringers (Assumes continuous span, min 3 bays)

-Capacities Assume the Following

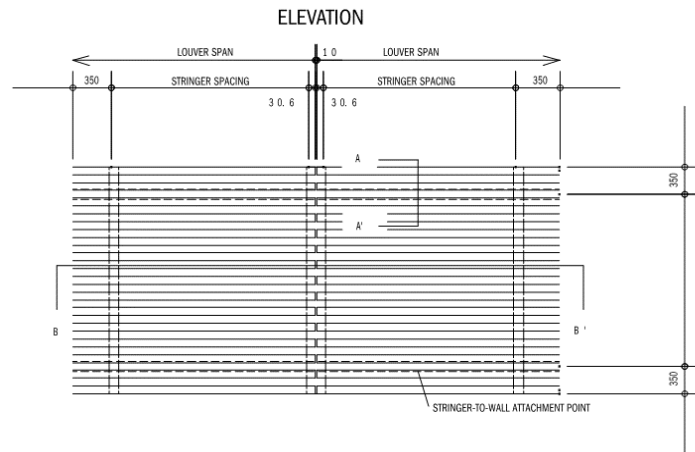
-Vertical stringer connections back to structure at 16" o.c. max.

-Louvers spaced no closer than **3** " o.c. for all extrusions other than THS-1040 then **6** " o.c.

-No opinion is given to capacity of connection of stringer to structure or structure capacity

-These capacities apply to full assembly of Louvers and Stringers STAL-7, STAL-8

-Attachment of Stringer to Structure Capacity may govern design and should be investigated. Capacity per connections Graphs (C2, C5) Tables (T2, T6, T7)

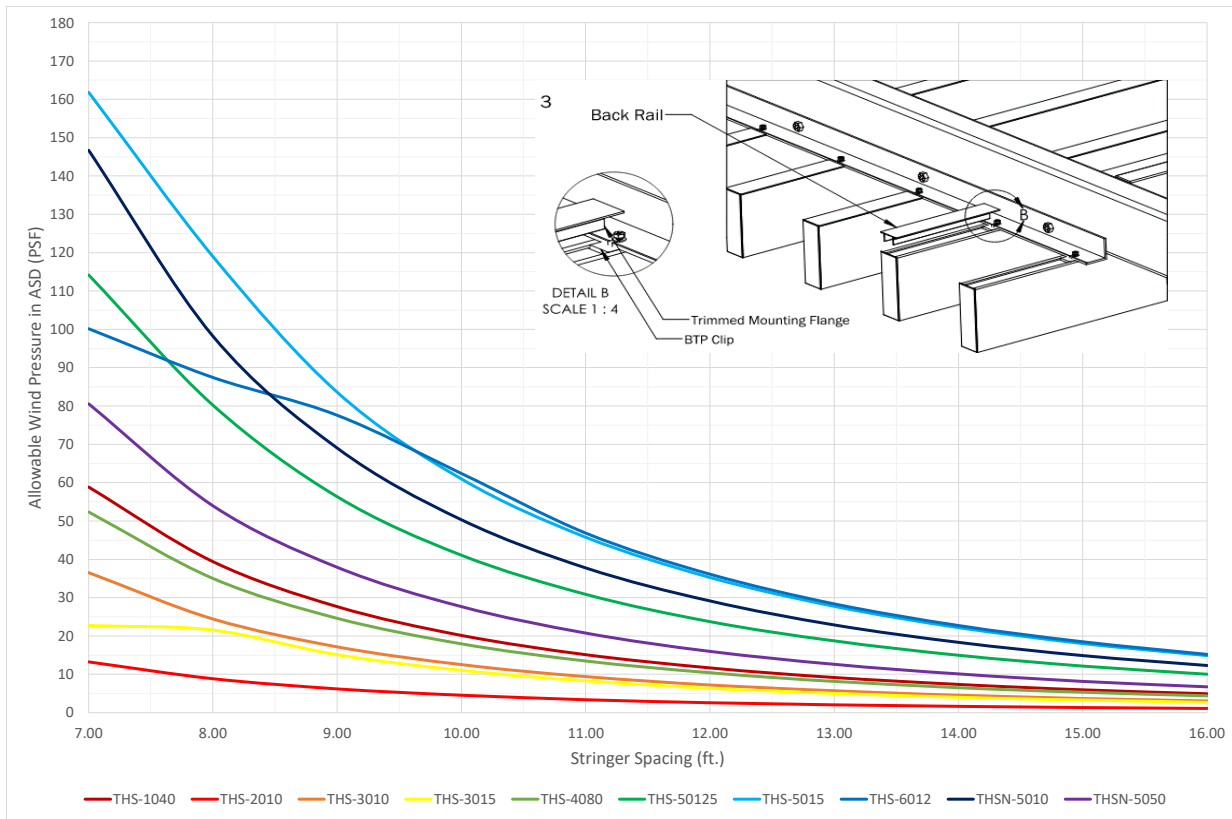


HL - Horizontal Louver  
VS - Vertical Stringer

# TECHNICAL INFORMATION

## Windload Data

**FIGURE L3: HUNG TRELLIS LOUVERS TO TRELLIS STRINGER GRAPH**



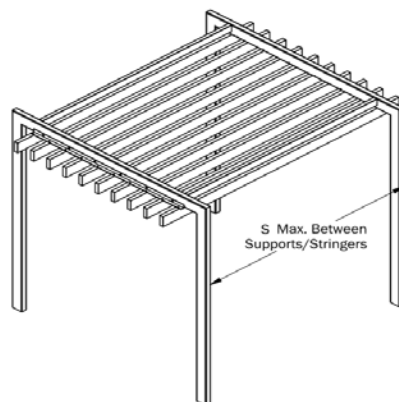
### Assumptions

-This chart displays vertical extrusion installation with horizontal support stringers

-Capacities Assume the Following

- Trellis assumed to be simply supported by one stringer member each side of trellis.
- Trellis stringer connections back to structure at 16" o.c. max.
- Louvers spaced no closer than **3** " o.c. for all extrusions other than THS-1040 then **6** " o.c.
- No opinion is given to capacity of connection of stringer to structure or structure capacity
- These capacities apply to full assembly of Louvers and Stringer STAL-7
- Attachment of Stringer to Structure Capacity may govern design and should be investigated. Capacity per connections Graphs (C-3) Tables (T-3, T-8)

### ISOMETRIC VIEW

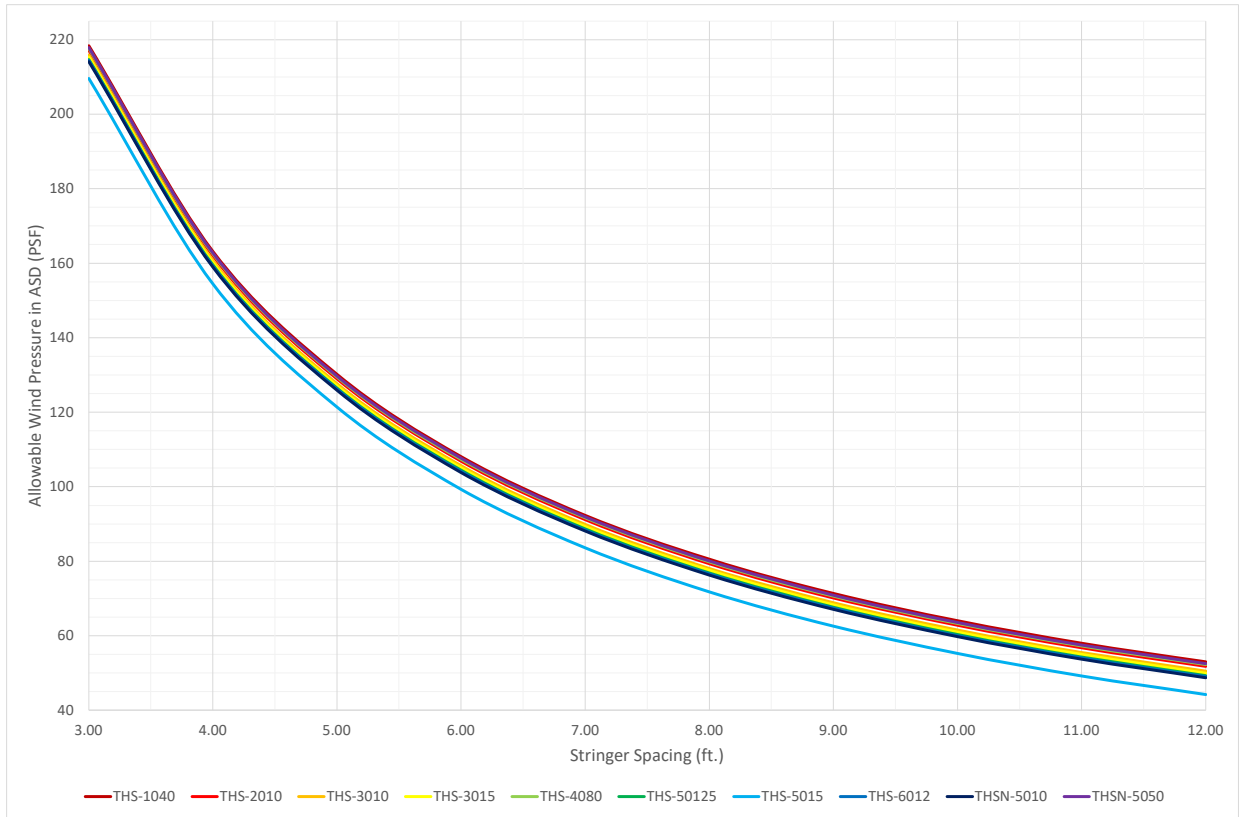


TL - Trellis Louver  
TS - Trellis Stringer

# TECHNICAL INFORMATION

## Windload Data

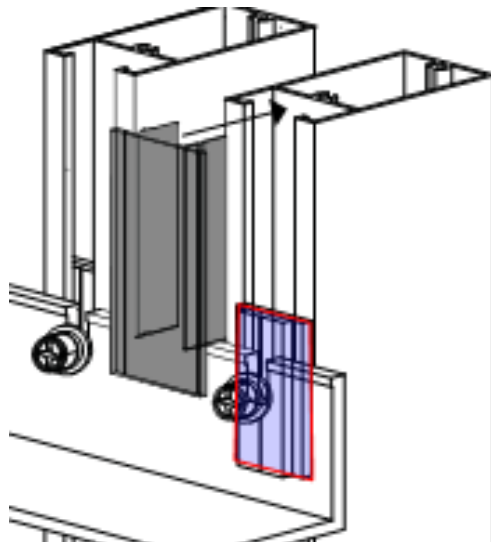
**FIGURE C1: VERTICAL LOUVER CONNECTIONS LEVEL 1 (T-NUT CONNECTION)**



**Assumptions**

-Capacities Assume the Following

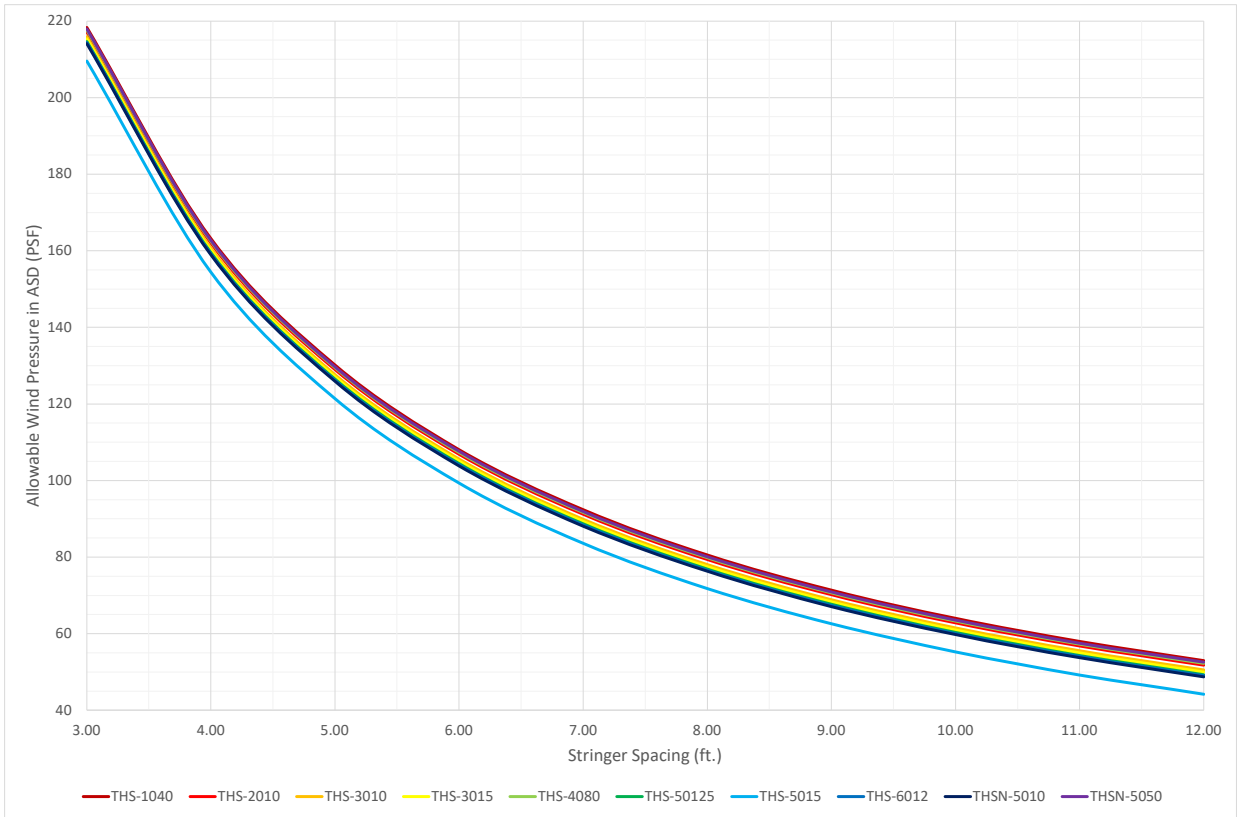
- Louvers spaced no closer than **3** " o.c. " o.c. for all extrusions other than THS-1040 then **6**
- No opinion is given to capacity of connection back to structure or structure capacity
- These capacities apply to connection from louvers to stringer
  - Attachment of Stringer to Structure Capacity may govern design and should be investigated. Capacity per connections table (T4)



# TECHNICAL INFORMATION

## Windload Data

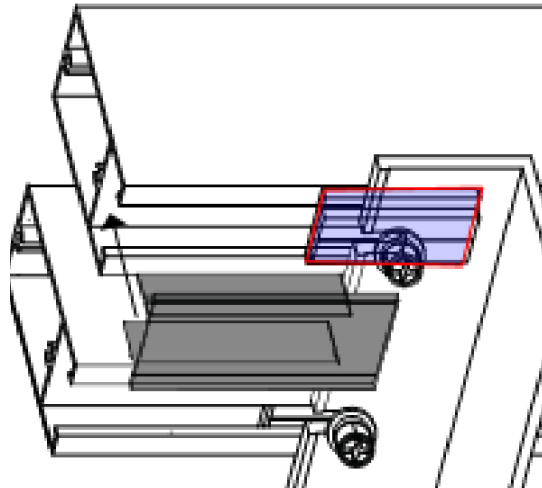
**FIGURE C2: HORIZONTAL LOUVER CONNECTIONS LEVEL 1 (T-NUT CONNECTION)**



**Assumptions**

-Capacities Assume the Following

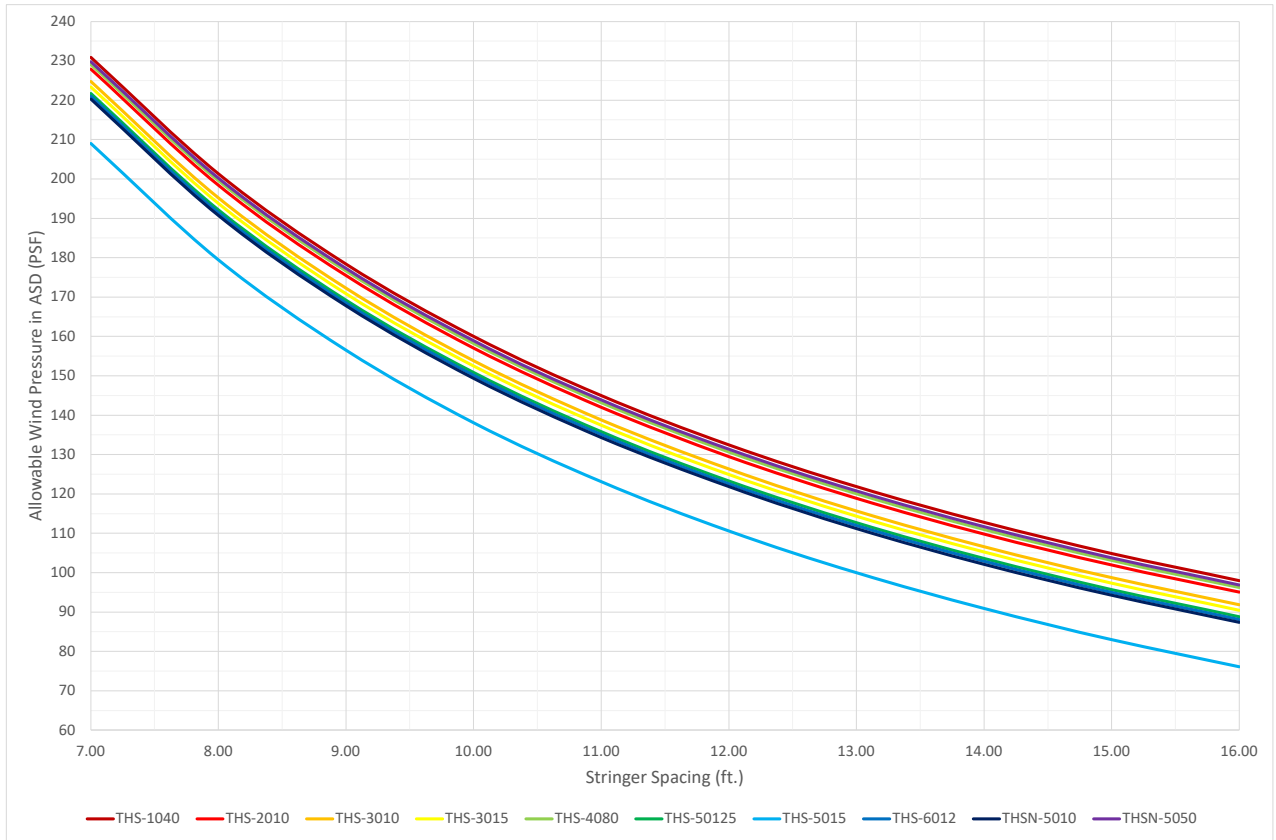
- Louvers spaced no closer than **3** " o.c. " o.c. for all extrusions other than THS-1040 then **6**
- No opinion is given to capacity of connection back to structure or structure capacity
- These capacities apply to connection from louvers to stringer
  - Attachment of Stringer to Structure Capacity may govern design and should be investigated. Capacity per connections table (T6)



**TECHNICAL INFORMATION**

**Windload Data**

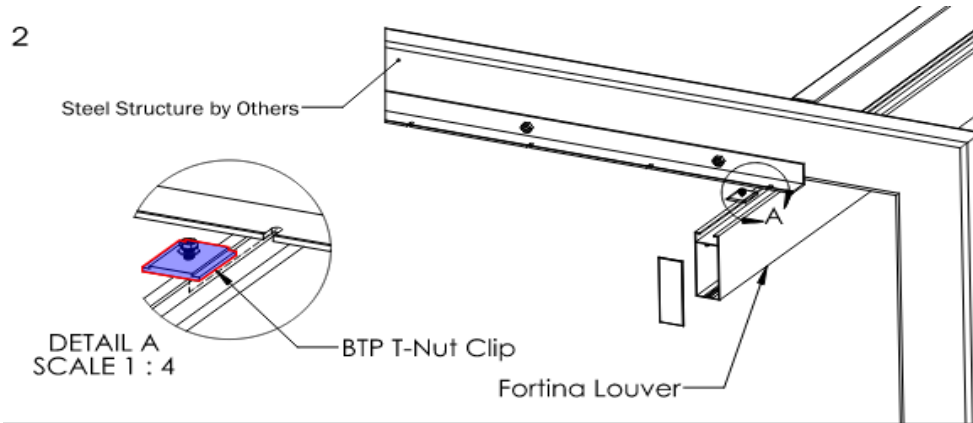
**FIGURE C3: TRELLIS LOUVER CONNECTIONS LEVEL 1 (T-NUT CONNECTION)**



**Assumptions**

-Capacities Assume the Following

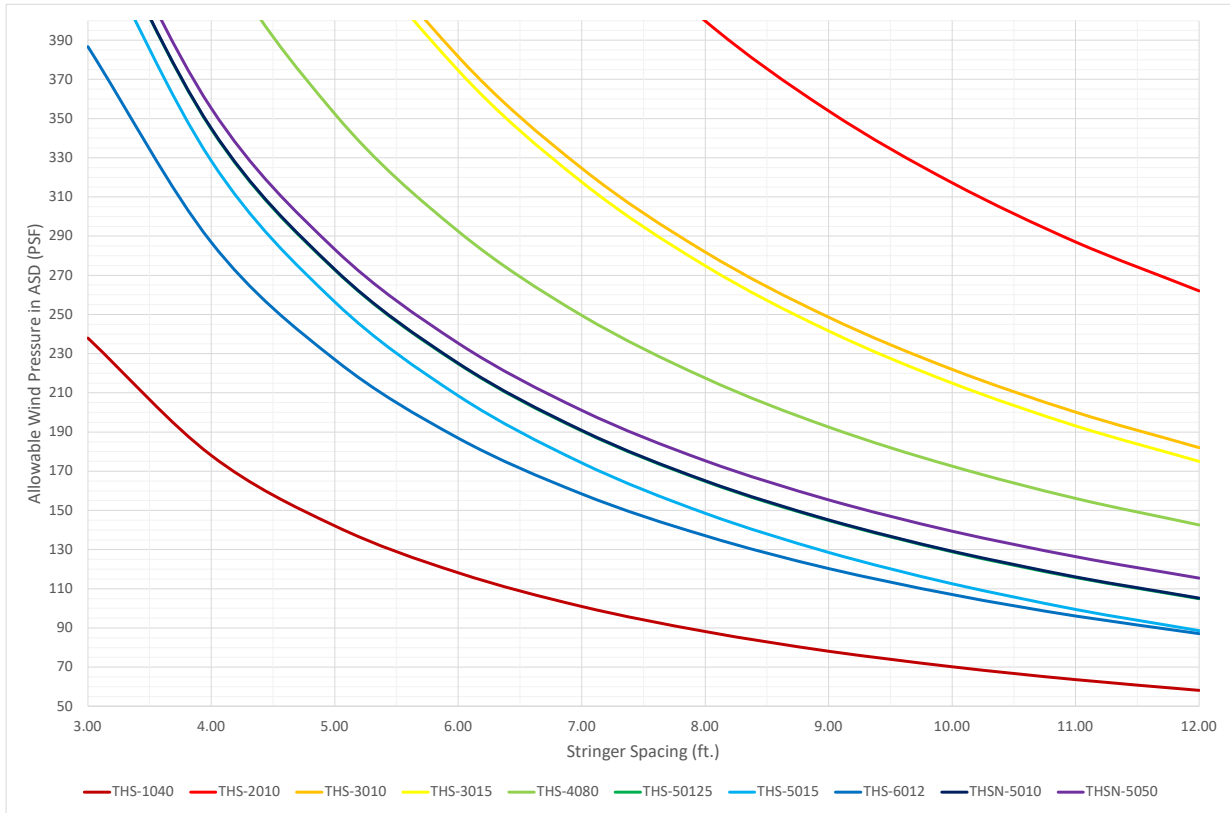
- Louvers at min of **3** " o.c.
- No opinion is given to capacity of connection back to structure or structure capacity
- These capacities apply to connection from louvers to stringer
  - Attachment of Stringer to Structure Capacity may govern design and should be investigated. Capacity per connections table



# TECHNICAL INFORMATION

## Windload Data

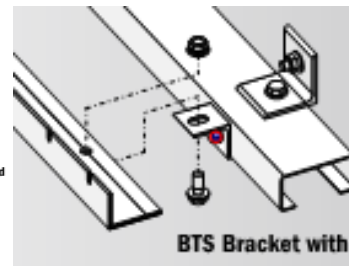
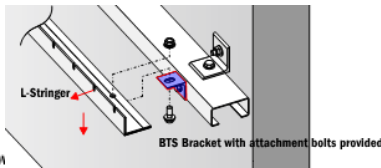
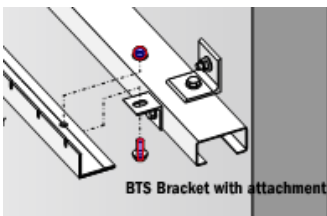
**FIGURE C4: VERTICAL LOUVER CONNECTIONS LEVEL 2 (STRINGER TO BTS 5050 CLIPS)**



**Assumptions**

-Capacities Assume the Following

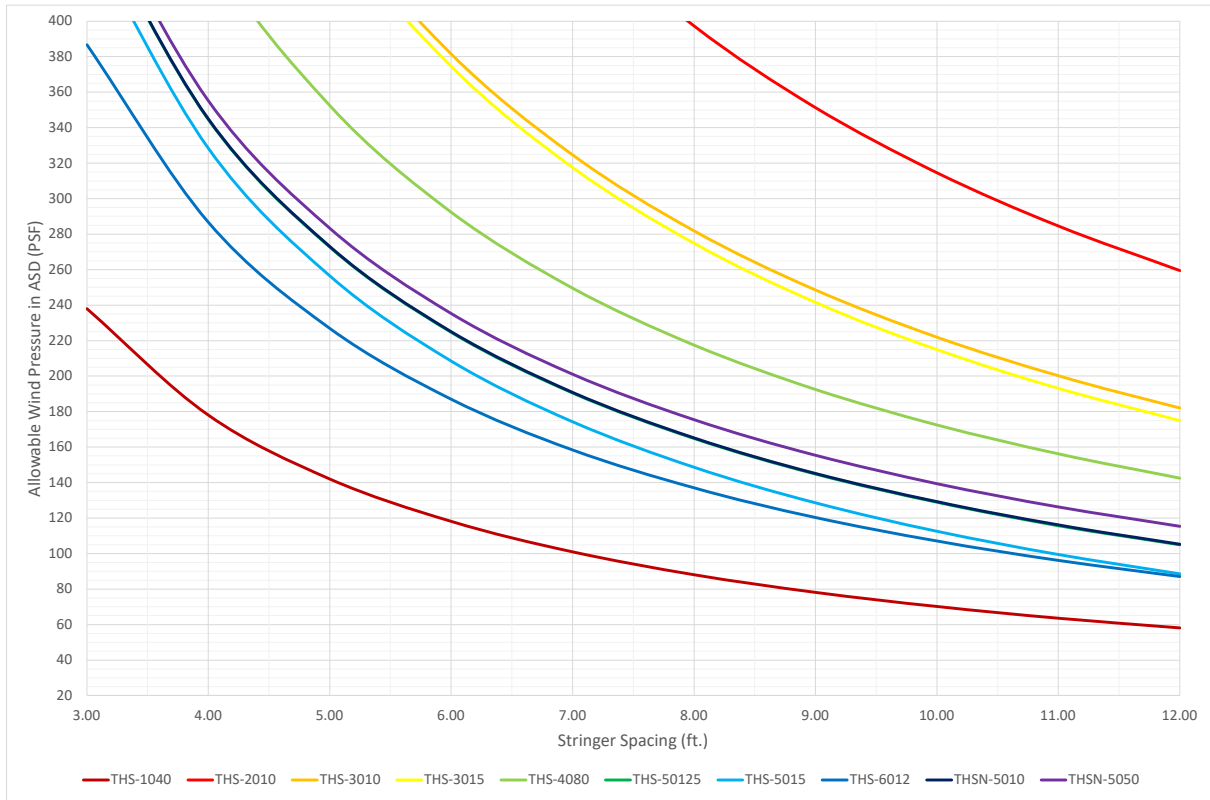
- Vertical stringer connections back to structure at 16" o.c. max.
- Louvers spaced no closer than **3** " o.c. " o.c. for all extrusions other than THS-1040 then
- No opinion is given to capacity of connection back to structure or structure capacity
- These capacities apply to connection from louvers to stringer
  - Attachment of Stringer to Structure Capacity may govern design and should be investigated. Capacity per connections table (T5)



# TECHNICAL INFORMATION

## Windload Data

**FIGURE C5: HORIZONTAL LOUVER CONNECTIONS LEVEL 2 (STRINGER TO BTS 5050 CLIPS)**

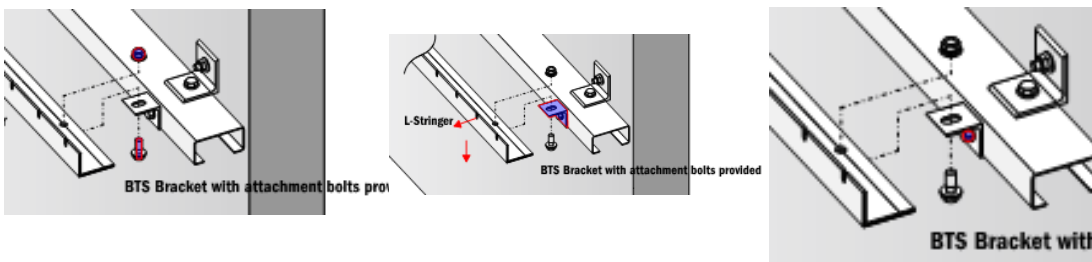


**Assumptions**

**-Capacities Assume the Following**

- Vertical stringer connections back to structure at 16" o.c. max.
- Louvers spaced no closer than **3** " o.c. " o.c. for all extrusions other than THS-1040 then
- No opinion is given to capacity of connection back to structure or structure capacity
- These capacities apply to connection from louvers to stringer
  - Attachment of Stringer to Structure Capacity may govern design and should be investigated. Capacity per connections table (T7)

6

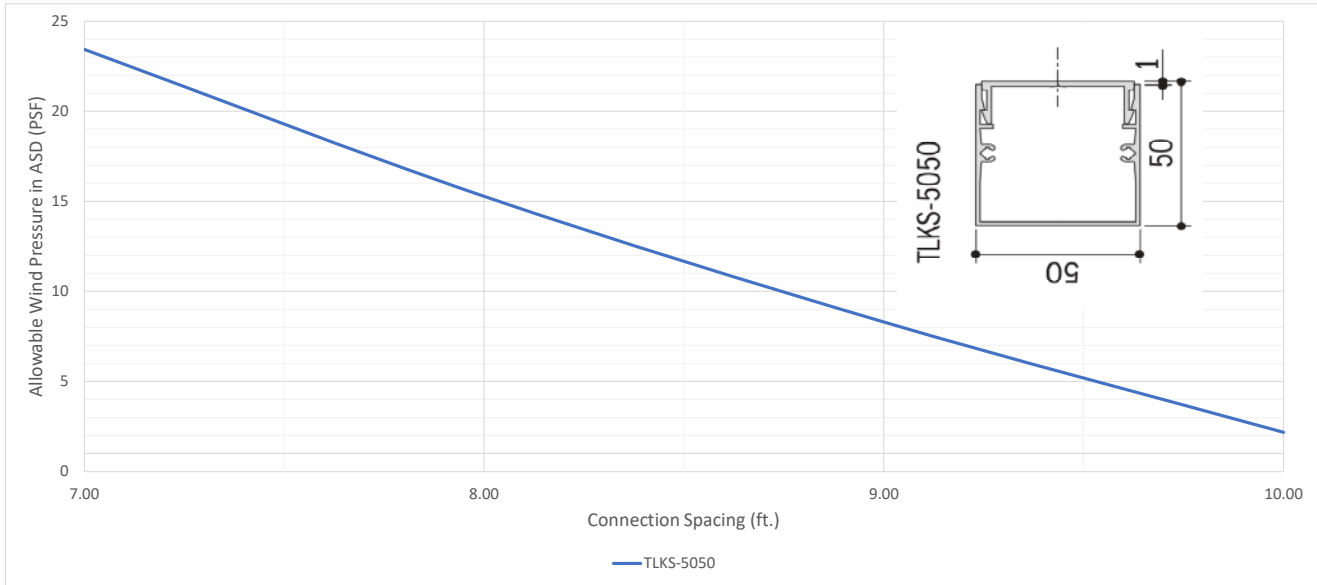




# TECHNICAL INFORMATION

## Windload Data

FIGURE L6: TLKS TRELLIS LOUVERS GRAPH

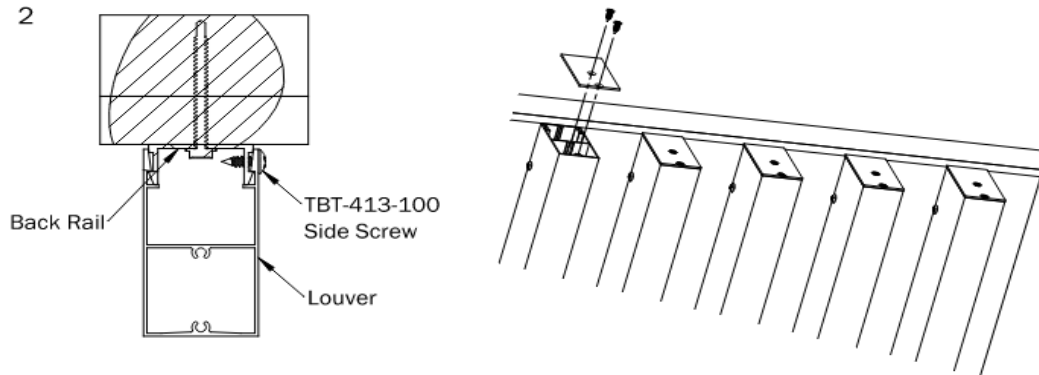


### Assumptions

#### -Capacities Assume the Following

-No opinion is given to capacity of connection back to structure or structure capacity

-Attachment louver direct to structure and should be investigated. Capacity per connections Tables (T11)



# TECHNICAL INFORMATION

## Windload Data

**TABLE T4: VL CONNECTIONS LEVEL 1 (T-NUT CONNECTION)**

	Stringer Spacing (ft.)	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00
<b>THS-1040</b>	Pressure (PSF)	218	163	130	108	92	81	71	64	58	53
<b>THS-2010</b>		217	162	129	107	91	79	70	63	57	52
<b>THS-3010</b>		216	161	128	106	90	78	69	62	56	51
<b>THS-3015</b>		215	160	127	105	89	78	68	61	55	50
<b>THS-4080</b>		218	163	129	107	92	80	71	63	57	52
<b>THS-50125</b>		215	160	126	104	89	77	68	60	54	49
<b>THS-5015</b>		210	154	121	99	84	72	63	55	49	44
<b>THS-6012</b>		214	159	126	104	88	77	67	60	54	49
<b>THSN-5010</b>		214	159	126	104	88	76	67	60	54	49
<b>THSN-5050</b>		218	163	130	108	92	80	71	64	58	53

**TABLE T5: VL CONNECTIONS LEVEL 2 (STRINGER TO BTS 5050 CLIPS)**

	Stringer Spacing (ft.)	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00
<b>THS-1040</b>	Pressure (PSF)	238	178	142	118	101	88	78	70	64	58
<b>THS-2010</b>		1089	813	648	538	459	400	354	317	287	262
<b>THS-3010</b>		781	581	462	382	325	282	249	222	200	182
<b>THS-3015</b>		774	574	455	375	318	275	242	215	193	175
<b>THS-4080</b>		592	442	352	292	250	218	193	173	156	143
<b>THS-50125</b>		465	345	273	225	191	165	145	129	116	105
<b>THS-5015</b>		448	328	256	209	174	149	129	113	100	89
<b>THS-6012</b>		387	287	227	187	158	137	120	107	96	87
<b>THSN-5010</b>		465	345	273	225	191	165	145	129	116	105
<b>THSN-5050</b>		475	355	283	235	201	175	155	139	126	115



# TECHNICAL INFORMATION

## Windload Data

**TABLE T6: HL CONNECTIONS LEVEL 1 (T-NUT CONNECTION)**

	Stringer Spacing (ft.)	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00
<b>THS-1040</b>	Pressure (PSF)	218	163	130	108	92	81	71	64	58	53
<b>THS-2010</b>		217	162	129	107	91	79	70	63	57	52
<b>THS-3010</b>		216	161	128	106	90	78	69	62	56	51
<b>THS-3015</b>		215	160	127	105	89	78	68	61	55	50
<b>THS-4080</b>		218	163	129	107	92	80	71	63	57	52
<b>THS-50125</b>		215	160	126	104	89	77	68	60	54	49
<b>THS-5015</b>		210	154	121	99	84	72	63	55	49	44
<b>THS-6012</b>		214	159	126	104	88	77	67	60	54	49
<b>THSN-5010</b>		214	159	126	104	88	76	67	60	54	49
<b>THSN-5050</b>		218	163	130	108	92	80	71	64	58	53

**TABLE T7: HL CONNECTIONS LEVEL 2 (STRINGER TO BTS 5050 CLIPS)**

	Stringer Spacing (ft.)	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00
<b>THS-1040</b>	Pressure (PSF)	238	178	142	118	101	88	78	70	64	58
<b>THS-2010</b>		1086	811	645	535	456	397	351	315	285	260
<b>THS-3010</b>		781	581	462	382	325	282	249	222	200	182
<b>THS-3015</b>		774	574	455	375	318	275	242	215	193	175
<b>THS-4080</b>		592	442	352	292	250	218	193	173	156	143
<b>THS-50125</b>		465	345	273	225	191	165	145	129	116	105
<b>THS-5015</b>		448	328	256	209	174	149	129	113	100	89
<b>THS-6012</b>		387	287	227	187	158	137	120	107	96	87
<b>THSN-5010</b>		465	345	273	225	191	165	145	129	116	105
<b>THSN-5050</b>		475	355	283	235	201	175	155	139	126	115



**TECHNICAL INFORMATION**

**Windload Data**

**TABLE T8: TL CONNECTIONS LEVEL 1 (T-NUT CONNECTION) TABLES**

	Stringer Spacing (ft.)	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00
<b>THS-1040</b>	Pressure (PSF)	231	201	178	160	145	132	122	113	105	98
<b>THS-2010</b>		228	198	175	157	142	130	119	110	102	95
<b>THS-3010</b>		225	195	172	154	139	126	116	107	99	92
<b>THS-3015</b>		223	194	171	152	137	125	114	105	97	90
<b>THS-4080</b>		229	200	177	158	143	131	120	111	103	96
<b>THS-50125</b>		222	192	169	151	136	123	113	104	96	89
<b>THS-5015</b>		209	179	157	138	123	111	100	91	83	76
<b>THS-6012</b>		221	191	169	150	135	123	112	103	95	88
<b>THSN-5010</b>		220	191	168	149	134	122	111	102	94	87
<b>THSN-5050</b>		230	200	177	159	144	131	121	112	104	97



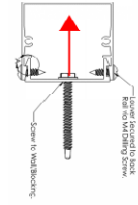
# TECHNICAL INFORMATION

## Windload Data

### TABLE T9: VERTICAL LOUVERS HORIZONTAL STRINGER

**VL** VL - Vertical Louver \*Connection to structure by others

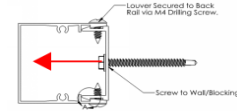
<b>TLKS-5050</b>	Span (ft.)	1.00	2.00	3.00	4.00
	Pressure (PSF)	301	150	100	75
	Max Reaction Tension (lbs)	62	62	62	62
	Max Reaction Shear (lbs)	61	61	61	61



### TABLE T10: HORIZONTAL LOUVERS VERTICAL STRINGER

**HL** HL - Horizontal Louver \*Connection to structure by others

<b>TLKS-5050</b>	Span (ft.)	1.00	2.00	3.00	4.00
	Pressure (PSF)	298	148	98	72
	Max Reaction Tension (lbs)	61	61	60	59
	Max Reaction Shear (lbs)	60	60	59	59



### TABLE T11: TRELLIS LOUVERS TABLE

**TL** TL - Trellis Louver \*Connection to structure by others

<b>TLKS-5050</b>	Span (ft.)	7.00	8.00	9.00	10.00
	Pressure (PSF)	23	15	8	2
	Max Reaction Tension (lbs)	13	10	6	2
	Max Reaction Shear (lbs)	14	10	6	2

