



FOUNDATION REACTIONS

06-08-2018

BUILDING: Atlas 40 Ft Wide 14 Ft o.c truss spacing
CLIMATE DATA(kPa): Snow(1/50): 2.6 Rain(1/50): 0.4 Wind 0.39
EXPOSURE: Category: Exposed Enclosure Factor (Ce): Enclosed
OCCUPANCY: Agricultural Imp. Factor: 0.8

BASE REACTIONS (UNFACTORED) : The maximum forces at the foundation/supports

Side A

Side A

Side B

Side B

Load Case	Horizontal		Vertical		Horizontal		Vertical	
	X _A (kips)	X _A (KN)	Y _A (kips)	Y _A (KN)	X _B (kips)	X _B (KN)	Y _B (kips)	Y _B (KN)
Dead	0.11	0.47	0.21	0.92	-0.11	-0.47	0.21	0.92
Live	2.55	11.34	4.69	20.84	-2.55	-11.34	4.69	20.84
Snow Balanced	3.85	17.12	5.41	24.08	-3.85	-17.12	5.41	24.08
Snow Unbalanced	1.45	6.47	1.18	5.25	-1.45	-6.47	3.42	15.23
Wind-Perpendicular	-0.13	-0.58	2.57	11.44	-1.58	-7.04	2.03	9.03
Wind-Parallel	-1.13	-5.01	-3.26	-14.5	1.08	4.81	-3.28	-14.57

Notes:

Negative values of Y reactions indicates uplift forces.

Parallel Wind (kPa):

values are good!



Legal description required - in red text.
(see attached)

* on the screen the lines & the header locations look good. Does not print well however.

08 June 2018



File reaction set.

Project for Britespan Building Systems, A18, 40ft span @ 14ft O.C

Climatic Data- Snow (1/50): 3.1kpa, Rain Load (1/50): 0.4kpa, Wind (1/10): 0.45kpa, Category-2, Ce=0.90

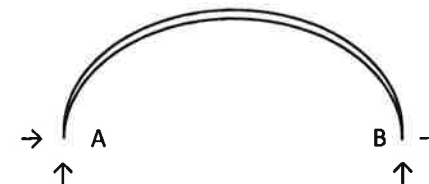
PROJECT: Britespan -Agriculture- Importance Factor-0.8 (Low), Both Ends Closed

BASE REACTIONS (UNFACTORED) :The maximum forces at the foundation/supports

LOAD CASE:	SIDE A				SIDE B			
	HORIZONTAL		VERTICAL		HORIZONTAL		VERTICAL	
	X _A (kips)	X _A (kN)	Y _A (kips)	Y _A (kN)	X _B (kips)	X _B (kN)	Y _B (kips)	Y _B (kN)
DEAD	0.11 ✓	0.47 ✓	0.21 ✓	0.92 ✓	-0.11 ✓	-0.47 ✓	0.21 ✓	0.92 ✓
LIVE	2.55 ✓	11.34 ✓	4.68 ✓	20.84 ✓	-2.55 ✓	-11.34 ✓	4.68 ✓	20.84 ✓
SNOW BALANCED	3.85 ✓	17.12 ✓	5.41 ✓	24.08 ✓	-3.85 ✓	-17.12 ✓	5.41 ✓	24.08 ✓
SNOW UNBALANCED	1.45 ✓	6.47 ✓	1.18 ✓	5.25 ✓	-1.45 ✓	-6.47 ✓	3.42 ✓	15.23 ✓
WIND: PERPENDICULAR	-0.13 ✓	-0.58 ✓	2.57 ✓	11.44 ✓	-1.58 ✓	-7.04 ✓	2.03 ✓	9.03 ✓
WIND: PARALLEL	-1.13 ✓	-5.01 ✓	-3.26 ✓	-14.50 ✓	1.08 ✓	4.81 ✓	-3.28 ✓	-14.57 ✓

Note:

Negative values of Y reactions indicates uplift forces.



Wind Parallel 0.7 Kpa



These foundation reactions are the result of the calculations in the BriteSpan Reaction Calculator and will be either confirmed or revised by the Stamping Engineer as part of the final engineering approval of the site specific building installation.

Legal description

Sales Order (or Proposal) 4448 - Custom Atlas 19' x 50' - 10' oc (Fabristructure)

Climatic Data- Ground Snow (Pg): 40 Psf, Roof Snow (Pf): 24.4 psf, Wind (V): 105 MPH, Wind Pressure (qh): 21.6 psf

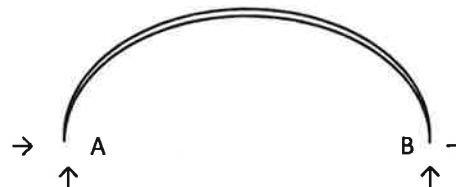
Exposure Category: C-Fully Exposed, Low Hazard, Importance factor-0.8, Building Enclosure: Fully Enclosed, Velocity-Pressure Exposure Coefficient (Kh) : 0.85, Exposure factor (Ce): 0.9, Thermal factor (Ct):1.2, Topo Factor (Kzt): 1.0, Direct Factor (Kd): 0.85

BASE REACTIONS (UNFACTORED) :The maximum forces at the foundation/supports

	SIDE A		SIDE B	
	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL
LOAD CASE:	X_A (kips)	Y_A (kips)	X_B (kips)	Y_B (kips)
DEAD				
COLLATERAL				
LIVE				
SNOW BALANCED				
SNOW UNBALANCED				
WIND: PERPENDICULAR				
WIND: PARALLEL				

Note:

Negative values of Y reactions indicates uplift forces.



29-Mar-16

*Print from saved to
file (HTML) page*



08 June - 2-18

LOGOUT ([HTTP://IROIDTECH.COM/BRITESPAN/DASHBOARD/LOGOUT](http://IROIDTECH.COM/BRITESPAN/DASHBOARD/LOGOUT))



0

EDM 0



0

Pricing

Building Dimensions

SERIES

Atlas

MODEL

6

220 Post Mount-

WIDTH FEET

40

LENGTH FEET

98

COVER FABRIC TYPE

Non-FR

0 STANDARD BAYS SPACED AT

14

FIRST NON - STANDARD BAY SPACED AT

0

SECOND NON - STANDARD BAY SPACED AT

0

TOTAL NUMBER OF BAYS

0

- 98' / 14' oc = 7 bays -

END WALL FABRIC TYPE

Non-FR

Vent Frame Packages

	Qty	Unit Retail	Ext. Retail	Unit Wholesale	Ext. Wholesale
HSS 0 to 10 Foot Span	0	\$273.00	\$0	\$0.00	\$0

HSS 11 to 20 Foot Span	2	\$553.00	\$1106	\$0.00	\$0
HSS 21 to 30 Foot Span	0	\$553.00	\$0	\$0.00	\$0
C-Channel Up to 20 Ft Span	0	\$520.00	\$0	\$0.00	\$0

Header Upgrade

WALL 1 : STD. 3X6 UPTO 15 FEET WIDE

change db - no 3x6

RETAIL PRICE

294.00

WHOLESALE PRICE

0.00

WALL 2 : NONE ✓

RETAIL PRICE

WHOLESALE PRICE

Header Only Packages

	Qty	Unit Retail	Ext. Retail	Unit Wholesale	Ext. Wholesale
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Door Frame Packages

	Qty	Unit Retail	Ext. Retail	Unit Wholesale	Ext. Wholesale
PD-1 Door Package	1	126	0	126	0
PD-2 Door Package	1	175	0	175	0
PD-3 Door Package	1	140	0	140	0

Discount & Taxes



STANDARD DISCOUNT

12

SPECIAL DISCOUNT

0
TAXES
13
RETAIL
RETAIL
RETAIL
WHOLESALE
WHOLESALE
WHOLESALE

	Qty	Unit Retail	Ext. Retail	Unit Wholesale	Ext. Wholesale
Basic Building And Cover					
Short Building Surcharge					
Additional CoverDrop Side A(ft)		1.205		0.000	
Additional CoverDrop Side B(ft)		1.205		0.000	
Apron Color(ft)		2.400		0.000	
Curtain Color(ft)		2.400		0.000	
Custom Cover Color(ft)					
Bolt Pkg Upgrade - Building(Sq. Ft)		0.090		0.000	
Bolt Pkg Upgrade - End Walls		113.050		0.000	
Cross Cable Upgrade (#cables)		16.630		0.000	

Show Cable Assembly (#cables)		69.160		0.000	
End Wall1 End HSS Package ✓			967.10		0.00
End Wall2 End HSS Package ✓			967.10		0.00
End Wall1 Fabric ✓			1150.86		Custom
End Wall2 Fabric ✓			1150.86		Custom
Additional Cover Drop Wall1 ✓		1.12			
Multi Color End Wall1					
Additional Cover Drop Wall2 ✓		1.12			
Multi Color End Wall2					
Vent Frame Packages			1106 ✓		
Header Only Packages					
Header Upgrades					
Door Frame Packages			441 ✓		
Eaves Side A					
Eaves Side B					
Eave Color(ft)	2.400	360		0.000	
Ridge Vent Package					
Miscellaneous Items					
Structural Drawings					
Sub Total			Custom		Custom
Total Price Including Discount & Taxes			Custom		Custom

(<http://iroidtech.com/britespan/summary/endwall2fabric?quotation=84>)

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