

PHONE: 507-426-8273 / FAX: 507-426-7408 / SchweissDoors.com

A-1 SPEC SHEET

S1 - Clears

S2 - Collision

Order Number:							nber:	82021-RB		
BILL TO:				SHIP TO:	SHIP TO: BUILDING MANUFACTURER					
Pro Air Media	a LLC									
Randy Bable				Sevierville		TN 37862				
Door Width	Door Height	Wdg.	Overall Height	Door Style	Drive Type	Lift Type	Truss	Hinge Style	Tot W - Inches	Tot H - Inches
50'-0.00" 17'-0.00" 36" 20'-0.00"			SCHWEISS	Bottom Drive	Strap Lift	Interna	I Single Hinges	604"	240"	

PRELIMINARY SPECS

H2- 1/2 x 6 HB

32322 11:22

- 1. We are providing PRELIMINARY SPECS primarily for you to pass on to your Building Manufacturer / Engineer / Architect / Contractor for the overall size and hinge locations for this door.
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- 3. FINAL SPECS will be provided with the FINAL WEIGHTS AND REACTIONS after contract and engineering are finalized. ONLY use FINAL WEIGHTS AND REACTIONS to design and manufacture the Doors Building Header and the Doors Building Side Columns.

PRELIMINARY - Bi-Fold Door Specifications

	Inches	Feet & Inches	-						
A-	600.00"	50'- 0.00"	Clear Opening between side columns or (steel or wood) - finished clear opening.						
AA-	612.00"	51'- 0.00"	Total distance to stay back with the building sheeting on the side columns.						
B-	204.00"	17'- 0.00"	Clear Opening from bottom truss to finished floor - or total height opening.						
C-	240.00"	20'- 0.00"	Distance from finished floor to the very top of hinge (B+D=C).						
CCC-	228.00"	19'- 0.00"	When using stubs to attach your bi-fold door to - the stub columns should						
•	(Stee	l Only)	hang no lower than 12 inches below the C measurement.						
	IMPO	RTANT	NOTIFY SCHWEISS if stub columns are lower than 12".						
D-	36.00"	3'- 0.00"	Distance from top of clear height to top of single hinges.						
	· · · · · · · ·								

D- 36.00" 3'- 0.00" Distance from top of clear height to top of single hinges.
 E- 35.00" 2'- 11.00" Distance from top of clear height to center of mounting hole for single hinges.
 F- 241.00" 20'- 1.00" Distance from finished floor to the building sheeting line above the door.

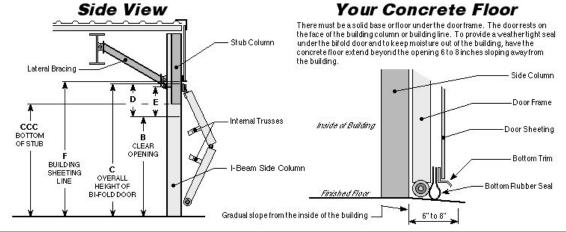
Hold the sheeting to this elevation from the finished floor.
These Specs are designed for up to 1-1/2" Thick Sheeting Panels and Trim.
When using 2" Thick Insulated Panel and Trim Add 2" to F Measurment Above.
When using 3" Thick Insulated Panel and Trim Add 3" to F Measurment Above.

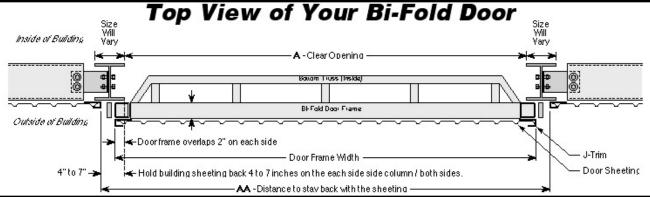
IMPORTANT - It is the Contractors/Owners Responsibility to Ensure the Door Sheeting does not Collide with the Building Sheeting - See Illistrations S1 and S2 on the right of this page.

239.00" 19'- 11.00" Distance from the finished floor to the center of single hinge bolt holes.

YOU WILL BOLT THROUGH YOUR HEADER AT THIS HEIGHT

Header Bolts Schweiss providing, unless otherwise specified by customer / contractor.







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A-2 SPEC SHEET

Order Number:							Bid Number: 82021-RB			
Door Width Door Height Wdg. Overall Height Door Style Drive Type						Lift Type	Truss	Hinge Style	Tot W - Inches	Tot H - Inches
50'-0.00"	17'-0.00"	36"	20'-0.00"	SCHWEISS	Bottom Drive	Strap Lift	Internal	Single Hinges	604"	240"

PRELIMINARY SPECS

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PRELIMINARY - Design Criteria - Required Door Information

•		
Building Code	2018 IBC	Building Code - (Default is 2012 IBC)
Wind Speed	115 mph	3 second gust - (Default is 115 mph)
Risk Category	II	II, III, or IV - (Default is II) - (2009 IBC = Standard Occupancy)
Wind Exposure	С	Exposure - (Default is C)
Wind Type	Main Wind	Component Wind or Main Wind Force (MWFRS) - (Component if less than 700sqft.)
Enclosure	Enclosed	Enclosed or Partially Enclosed - (Default is Enclosed)
Topographic Factor - Kzt	1	Must Be Provided by the Engineer of Record- (Default is 1)
Building Height	21'	Mean Roof Height or Eave Height for Building with Roof Slope of 10 Degrees or Less.
Roof Slope	1:12	Roof Slope - (Default is 1 : 12)
Door Operational Wind Speed	30 mph	Maximum Wind Speed for Door Operation is: 30 mph
	-	Do not operate door if wind speed exceeds the maximum door operating speed. Door must be closed with floor pins and locks engaged when unattended or when wind speed is expected to exceed the maximum door operating speed.

PRELIMINARY - Technical Information For Your Bi-Fold Door

A1-	9	Number of Hinges
A2-	5	Number of Lift Points Distributed Equally.
A3-	240-1PH	Electrical System with Up/Stop/Down Switch and Power Unit on the (LI) - Left/Inside
		Those are DDELIMINARY WEIGHTS that will change due to Final Engineering, if you page those on to your Building Many

Door Weights

WARNING - Engineer / Architect / Contractor, please inform them that these are not the FINAL WEIGHTS. DO NOT manufacture the Doors Building Header or the Doors Building Side Columns using these PRELIMINARY SPEC WEIGHTS.

B1- 4958 lbs Structural Framing Weight

B1- 997 lbs Structural Framing Weight

(29ga. = 0.82 psf. -- 26ga. = 0.99 psf.)

B3- Liner Sheeting & Trim Weight (29ga. = 0.82 psf. -- 26ga. = 0.99 psf.) / 2 If Only Bottom Half (4" Blanket = 0.5 psf. -- 6" Blanket = 0.65 psf.)

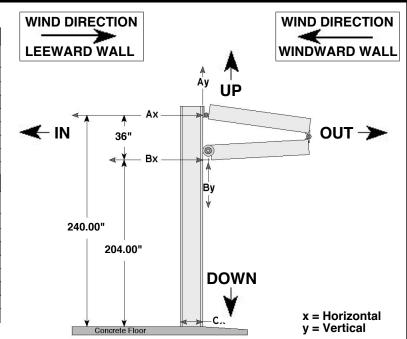
B4- Insulation Weight (4" Blanket = 0.5 psf. -- 6" B

B5- Optional - added accessories

B6- 5955 lbs Estimated Total Door Weight

PRELIMINARY - Door Reactions

DOOR CLOSED			END	H	INGES	CENTER	HINGES
	Column Read at Base (lbs.	Side Colu	ımn n Ea	and 1st Hinge ch End (lbs.)	Interior Hinges (Ibs.)		
	(C _x)		(A _x)		(A _y)	(A _x)	(A _y)
Dead Load	0		0		409 ~	0	819 ~
WINDWARD WALL			115 l	MP	H WIND LO	DAD	
Internal Pressure	1488	<	205	<	0	409 <	0
Internal Suction	3922	<	539	<	0	1079 <	0
LEEWARD WALL							
Internal Pressure	3178	>	437	>	0	874 >	0
Internal Suction	744	>	102	>	0	205 >	0
DOOR OPEN			END	H	INGES	CENTER	HINGES
DOOR OPEN	Roller Force (lbs.) Ea. Sid		Side Colu	mn a	INGES and 1st Hinge ch End (lbs.)	CENTER Interior (lbs	Hinges
DOOR OPEN			Side Colu	mn a	and 1st Hinge	Interior	Hinges
DOOR OPEN Dead Load	(lbs.) Ea. Sid (B _x)		Side Colu Loc. fron	mn a	and 1st Hinge ch End (lbs.)	Interior (lbs	Hinges s.)
	(lbs.) Ea. Sid (B _x)	e <	Side Colu Loc. fron (A _x)	mn a	and 1st Hinge ch End (lbs.)	Interior (lbs (A _x) 1349 >	Hinges s.) (A _y) 819 ~
Dead Load	(lbs.) Ea. Sid (B _x) 4906 30 MPI	e <	Side Colu Loc. fron (A _x)	mn a	and 1st Hinge ch End (lbs.) (A _y) 409 ~	Interior (lbs (A _x) 1349 >	Hinges s.) (A _y) 819 ~
Dead Load WINDWARD WALL	(lbs.) Ea. Sid (B _x) 4906 30 MP I 667	(H	Side Colu Loc. from (A _x) 675	mn a n Ea > JM	and 1st Hinge ch End (lbs.) (A _y) 409 ~ WIND FOR	Interior (flbs (A _x) 1349 > DOOR OP	Hinges s.) (A _y) 819 ~ ERATION
Dead Load WINDWARD WALL Internal Pressure	(lbs.) Ea. Sid (B _x) 4906 30 MP 1 667	\(\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Side Colu Loc. from (A _x) 675 MAXIMU	mn an Ea	and 1st Hinge ch End (lbs.) (A _y) 409 WIND FOR	(A _x) 1349 > DOOR OP	Hinges s.) (A _y) 819 ~ ERATION 108 ^
Dead Load WINDWARD WALL Internal Pressure Internal Suction	(lbs.) Ea. Sid (B _x) 4906 30 MP l 667 391	\(\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Side Colu Loc. from (A _x) 675 MAXIMU	mn an Ea	and 1st Hinge ch End (lbs.) (A _y) 409 WIND FOR	(A _x) 1349 > DOOR OP	Hinges s.) (A _y) 819 ~ ERATION 108 ^



Important Note:

When your bi-fold door is opening or in the wide open position, the door tends to pull away from the building at the hinge line also putting stress on each building column where the roller moves along the column flange. The building manufacturer/contractor/owner is responsible to insure that the building structure is capable of handling all the imposed loads. All materials not supplied by Schweiss are the full responsibility of others!



SCHWEISS BIFOLD DOOR SPECS

	PHONE: 507-426-8273 / FAX: 507-426-7408 / SchweissDoors.com SHEET										
Order Num	ber:					Bid Nun	nber: 82	2021-RB			
Door Width	Door Height	Wdg.	Overall Height	Door Style	Drive Type	Lift Type	Truss	Hinge Style	Tot W - Inches	Tot H - Inches	
50'-0.00"	17'-0.00"	36"	20'-0.00"	SCHWEISS	Bottom Drive	Strap Lift	Internal	Single Hinges	604"	240"	
PRELIMINARY SPECS 1. We are providing PRELIMINARY SPECS primarily for you to pass on to your Building Manufacturer / Engineer / Architect / Contractor for the overall size and hinge locations for this door. 2. These are PRELIMINARY SPECS and the WEIGHTS and REACTIONS will change, therefore DO NOT design or manufacture the Doors Building Header and the Doors Building Side Columns using these Preliminary Spec Weights and Reactions. 3. FINAL SPECS will be provided with the FINAL WEIGHTS AND REACTIONS after contract and engineering are finalized. ONLY use FINAL WEIGHTS AND REACTIONS to design and manufacture the Doors Building Header and the Doors Building Side Columns.											
Vertical 2. Deflectio	Frame Deflect n Increases f	tion m rom _	Deflection <u>L</u> ust be held so <u>0</u> at Doo	<u>. / 180</u> Maxim that the door or Side Colum	will open when one to the maxing to the maxing the maxi	l + Live Load the full sno num allowat	d or Dead w load is a ble deflecti	+ Snow Load Co applied to the bu on at the center	ilding.		
4. L/90 5. L/180 6. 1/2"	5. L / 180 (Dead Load of Door)										
Information for Building Designers											
Designing	Designing the Door Side Column for Bi-Fold Doors.										
	 7. The door side column for Bi-Fold Doors. flange must be designed to limit the deflection of the flange as the door opens. 										

Design the door side columns for:

- 9. Major axis bending due to the Roller Forces (Bx) shown on the Door Reactions Chart.
- 10. Axial load by the building framing on the door side column (including the dead load of the door).

8. The door side columns and door header must be on the same plane - flush with each other.

11. Design for combined major axis bending and axial load per the provisions of the governing building code, The 2005 Manual of Steel Construction Chapter H.

Deflection Requirements for door side column:

12. Design the door side column for the same deflection requirements as required by the building code.

General Design Notes:

- 13. The door side columns, header and bracing should be designed by a qualified Professional Engineer.
- 14. Specific building conditions other than those indicated in the Spec Sheets may exist which require further engineering consideration.
- 15. Schweiss is not responsible for the size or design of the door header and side columns for your building. All materials not supplied by Schweiss are the full responsibility of others.
- 16. Door Dead Load is applied to the building when the door is open or closed.
- 17. It is the building designers responsibility to combine the door reactions with the appropriate load combinations.

Upgrade Equipment - Customer's Choice

You may add any accessory to your Bi-Fold Door,	Schweiss strongly recommends these accessories be used on every doo
Only included with your order if the box is checked	Read the Schweiss
4 Tan Organida limala Orgitalasa	

1.	Ш	Top Override Jiggle Switches
2.		Side Latch Jiggle Switches
3.		Electric Photo Eye Sensors
4.		3 Button Automatic Switch
5.		Door Base Safety Edge

Warning Lights and Horn Emergency Back-Up Hand Crank

"Safety Information and Operation Manual"

The Schweiss Bi-Fold Doors Safety Information and Operation Manual should be read by anyone involved in the design, specifications, selection or purchase of an industrial bi-fold door operator or automated bi-fold door system.

Call Us If You Have Any Questions

If you have any questions or comments about your bi-fold door's safe operation or its design, call us at the numbers listed at the top of the page and talk to our knowledgeable staff at the factory.



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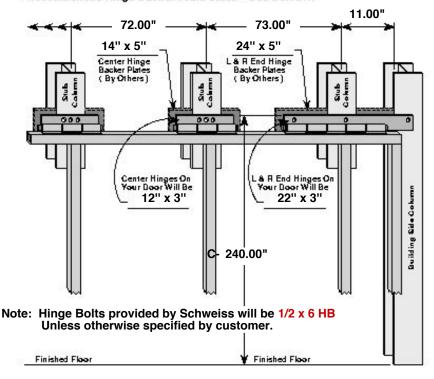
A-4 SPEC SHEET

Order Num	Order Number:						nber: 82	: 82021-RB			
Door Width	Door Width Door Height Wdg. Overall Height			Door Style	Drive Type	Lift Type	Truss	Hinge Style	Tot W - Inches		
50'-0.00"	17'-0.00"	36"	20'-0.00"	SCHWEISS	Bottom Drive	Strap Lift	Internal	Single Hinges	604"	240"	

Attaching Bi-Fold Door To Your Building

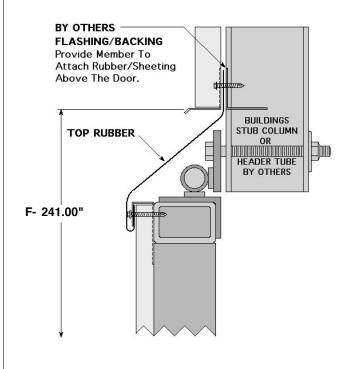
Typical I-Beam Building Side Column With Stub Columns

- Bolt Through Side Columns and Stub Columns.
- Hinge Backer Plate Provided By Building Manufacturer/Owner/Contractor.
- Hinge Backer Plate Thickness Determined By Building Manufacturer.
- Recommended Hinge Backer Plate Sizes See Below...



Sheeting Above Your Bi-Fold Door

- Sheet above door at the height shown below.
- Provide proper backing to attach sheeting and door top rubber to at this height.



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Owners / Building Manufacturers / Engineers / Architects / Contractors:

When working with contractors or construction companies it is your responsibility to pass this information on to them. The Building Manufacturer / Engineer / Architect / Contractor / Owner is responsible to ensure that the building structure is capable of handling all the imposed loads. All materials not supplied by Schweiss are the full responsibility of others!

Building Manufacturer / Engineer / Architect / Contractor / Owner is responsible for ensuring that the correct version of the A-1 thru A-7 Spec Sheets are being used for their door. Schweiss Distributing is **Not** liable for the Building Manufacturer / Engineer / Architect / Contractor / Owner using an obsolete or PRELIMINARY version of the A-1 thru A-7 Spec Sheets.

I have read through the FINALIZED Spec Sheets A-1, A-2, A-3, A-4, A-5, A-6, A-7 and agree to them.

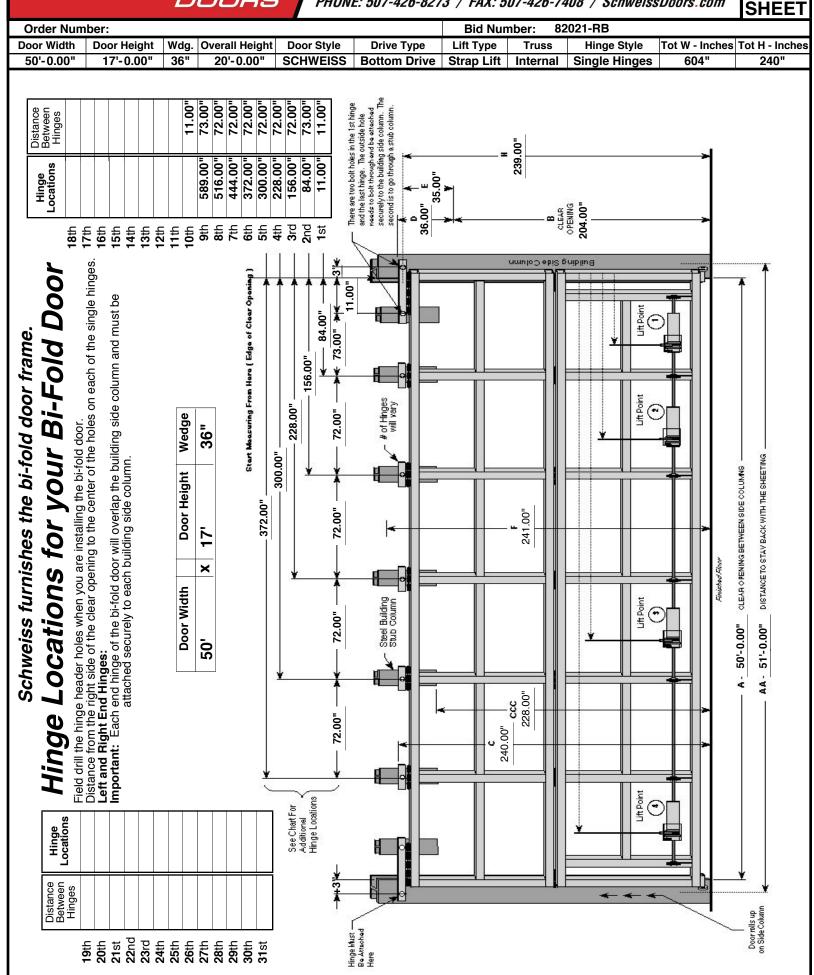
Customer:		Thank You : Sales Person	Jeremy Rieke
	SIGNATURE REQUIRED		



+SCHWEISS
DOORS

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1 1 10 1			DRS	PH	ONE:	<i>507-426-8</i>	?73 / FAX	: 507-426-7	408 / Schweiss	Doors.com	SHEET
Order Num	ıber:						Bid N	lumber: 8	2021-RB		
Door Width			all Height	Door Styl		Drive Type	Lift Typ		Hinge Style	Tot W - Inches	
50'-0.00"				SCHWEIS		Bottom Driv		ft Internal	Single Hinges	604"	240"
EX	cternal Si	neetir	ng and	IIII					ier Respo		
		1			Lea	ve your end	wall open	or un-sheet	ed until the door	is installed!	If the end
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Note: Hinge Bolts provided by Schweiss will be 1/2 x 6 HB Unless otherwise specified by customer.



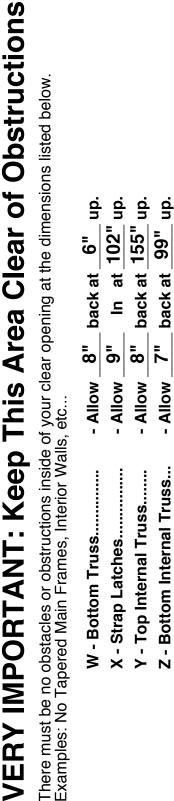
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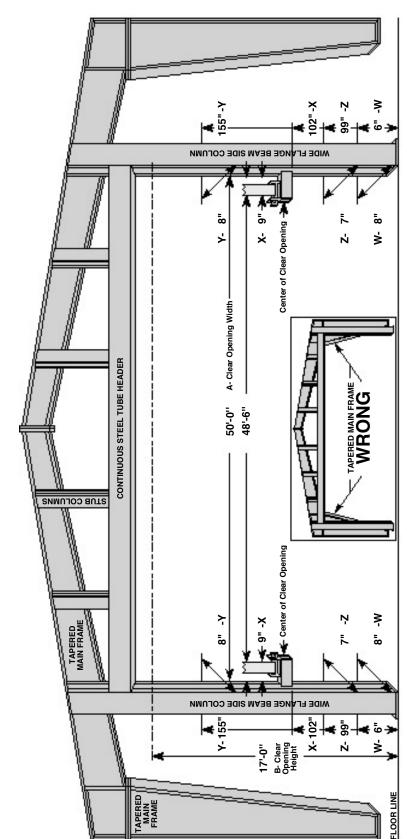
SCHWEISS DOORS

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ı	50'-0.00"	17'-0.00"	36"	20'-0.00"	SCHWEISS	Bottom Drive	Strap Lift	Internal	Single Hinges	604"	240"

DETAILED DRAWING

OBSTRUCTIONS INSIDE OF THE DOORS CLEAR OPENING provide the proper internal clearances inside of the doors clear opening. Schweiss is calling out the distances below and it is the customers/building manufacturers responsibility to ensure these clearances are met for your door to





When the bi-fold door comes with internal trusses and/or automatic side latches, the building manufacturer must

Door Opening - Internal Clearance Required

function properly. Pass this information on to your building manufacturer.