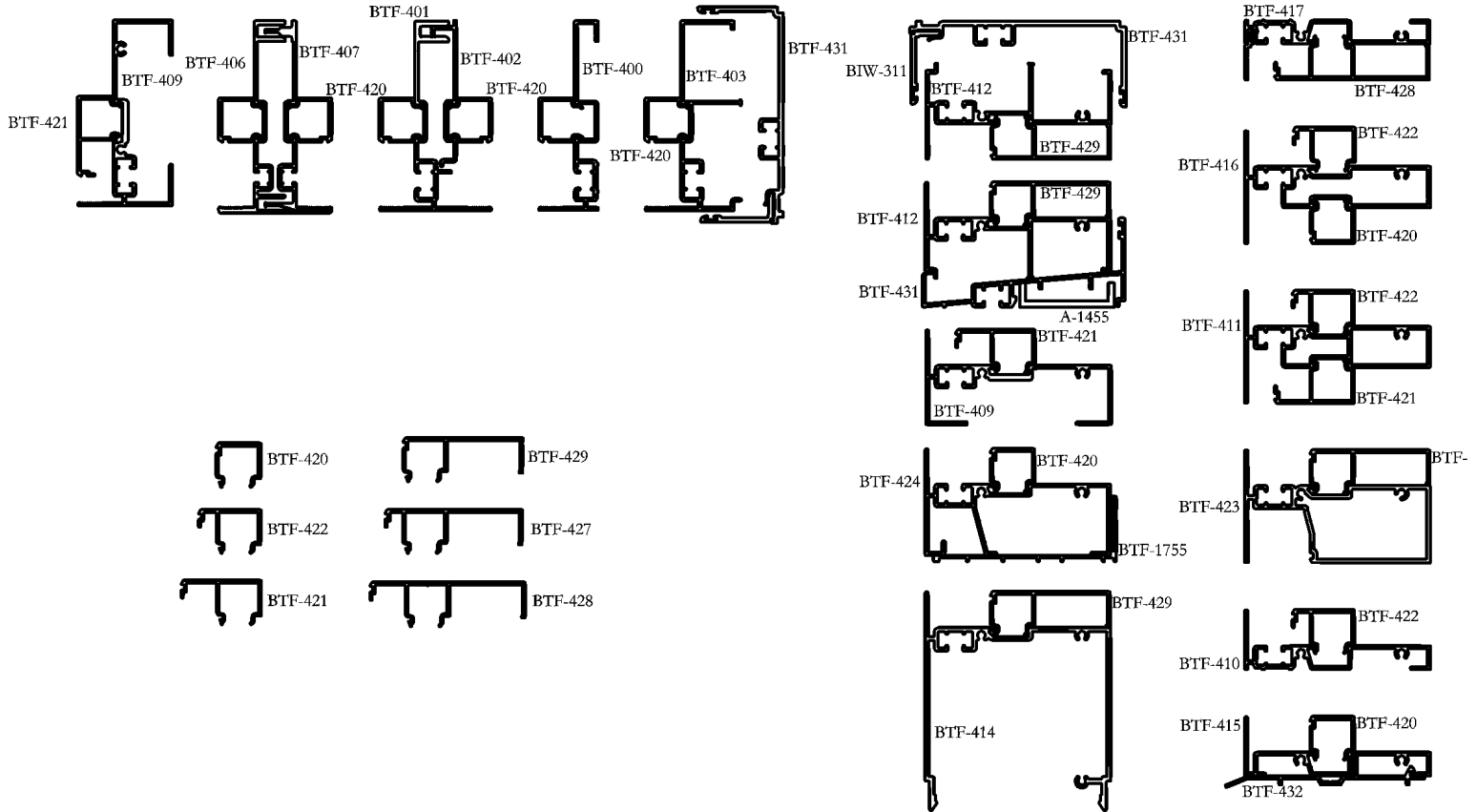


1/4 SIZE DETAILS



FABRICATION NOTES

THIS SYSTEM IS DESIGNED TO HAVE SIMPLE FABRICATION, CONSISTING OF SQUARE CUTS AND DRILLED HOLES. THE HORIZONTALS ARE 1/16" NARROWER IN DEPTH THAN THE VERTICALS, THUS AVOIDING NOTCHING FOR THE GLAZING FIN. THIS MEANS THE GLAZING TAPE OF THE VERTICALS MUST BE 1/16" THICKER TO ACCOMMODATE FOR THE DISTANCE. SEE PAGE 6 FOR GLAZING GASKET INFORMATION.

THIS SYSTEM IS DESIGNED TO BE PUT TOGETHER WITH #10 SELF-TAPPING SCREWS.





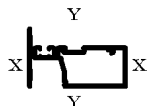
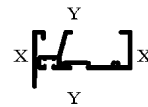
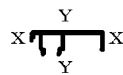

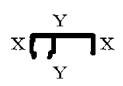
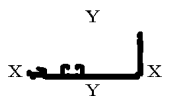
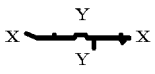
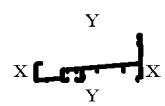
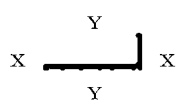

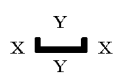
THIS SYSTEM CAN BE ROTATED 90 DEGREES TO FORM BAYS OF VERTICAL LITES.

FLASHING IS RECOMMENDED FOR THIS SYSTEM

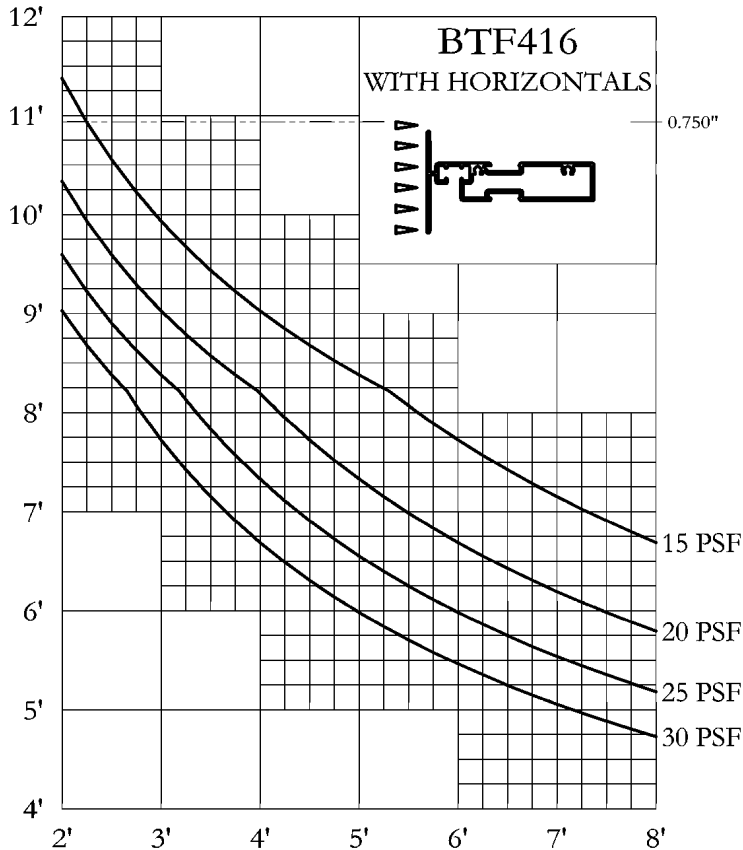
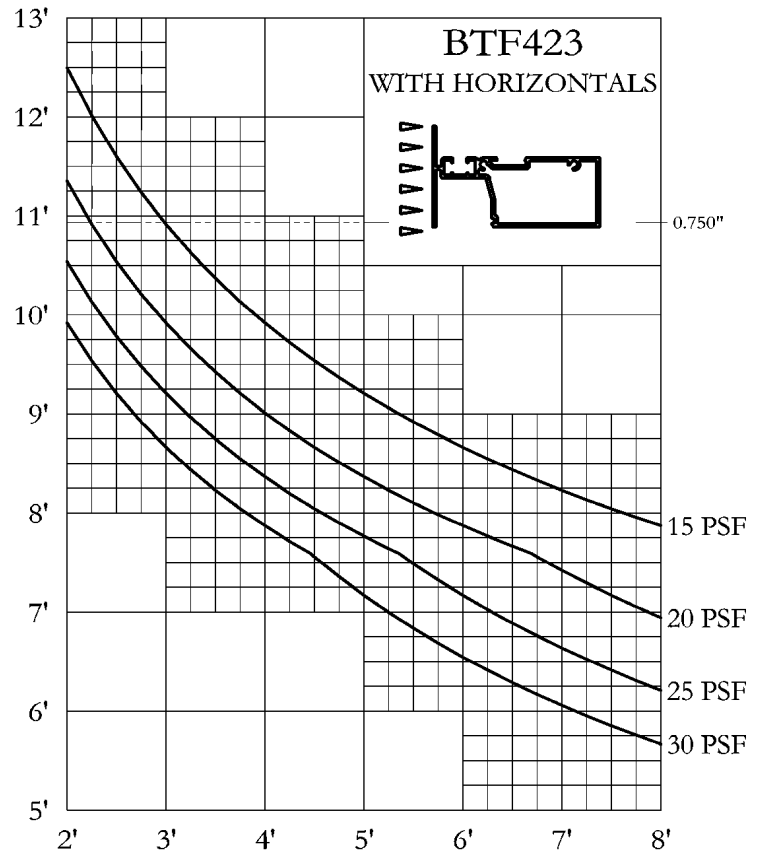
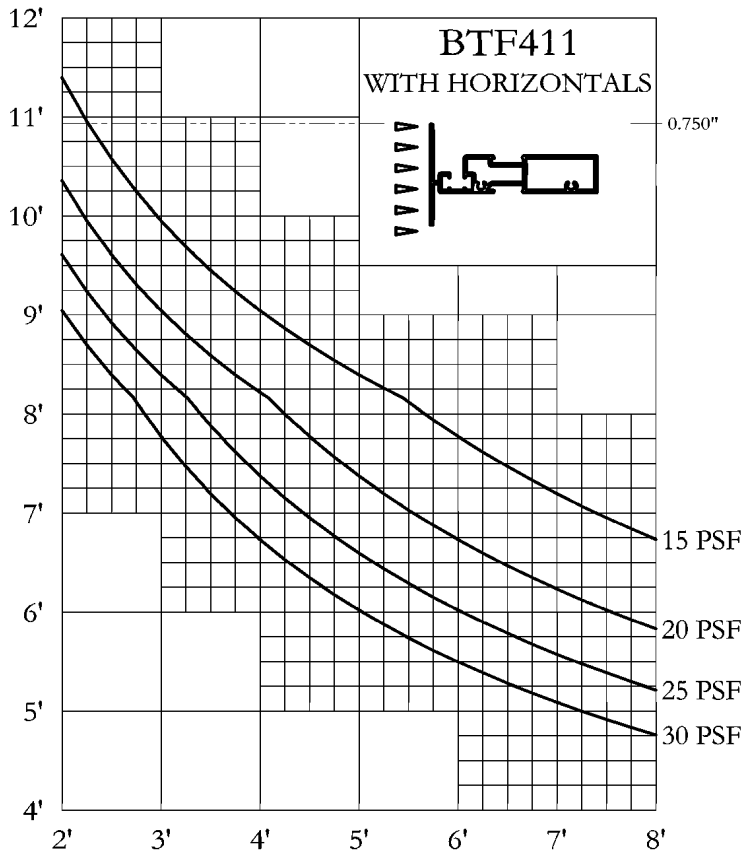
PRICING FACTORS
4" THERMAL FRAMING
BTF-400 SERIES



WEIGHT PER FT	EST PER	FACTOR	CAVITY AREA	PART NUMBER	STRUCTURAL VALUES			1/8 SIZE DETAILS
					X-X	Y-Y		
0.619	16.748	27	DDS	BTF400	0.032	I	0.909	
					0.035	S	0.389	
0.827	19.397	23	DDS	BTF401	0.092	I	1.554	
					0.068	S	0.712	
0.325	8.706	27	N/A	BTF402	0.005	I	0.267	
					0.012	S	0.168	
0.758	20.522	27	DDS	BTF403	0.102	I	1.216	
					0.096	S	0.520	
0.796	18.936	24	AA	BTF406	0.106	I	1.501	
					0.075	S	0.603	
0.588	14.581	25	AA	BTF407	0.023	I	0.968	
					0.027	S	0.441	
0.818	20.475	25	DDS	BTF408	0.135	I	1.352	
					0.123	S	0.570	
0.904	21.791	24	DDS	BTF409	0.151	I	1.429	
					0.137	S	0.639	
0.672	17.337	26	DDS	BTF410	0.033	I	0.946	
					0.036	S	0.423	
1.058	17.446	25	DDS	BTF411	0.148	I	1.456	
					0.120	S	0.644	
0.814	21.276	26	DDS	BTF412	0.103	I	1.242	
					0.098	S	0.554	
1.498	31.084	21	DDS	BTF414	3.299	I	2.264	
					1.613	S	0.883	
0.610	16.133	26	N/A	BTF415	0.030	I	0.909	
					0.033	S	0.421	
1.028	17.434	26	DDS	BTF416	0.148	I	1.448	
					0.120	S	0.636	
0.620	15.698	25	DDS	BTF417	0.017	I	0.818	
					0.062	S	0.389	

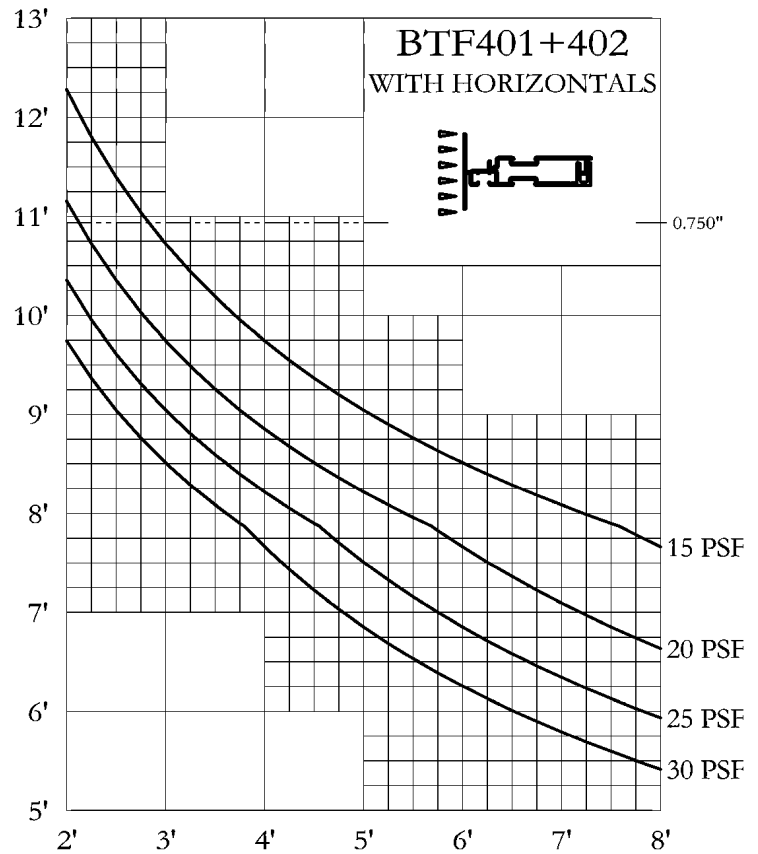
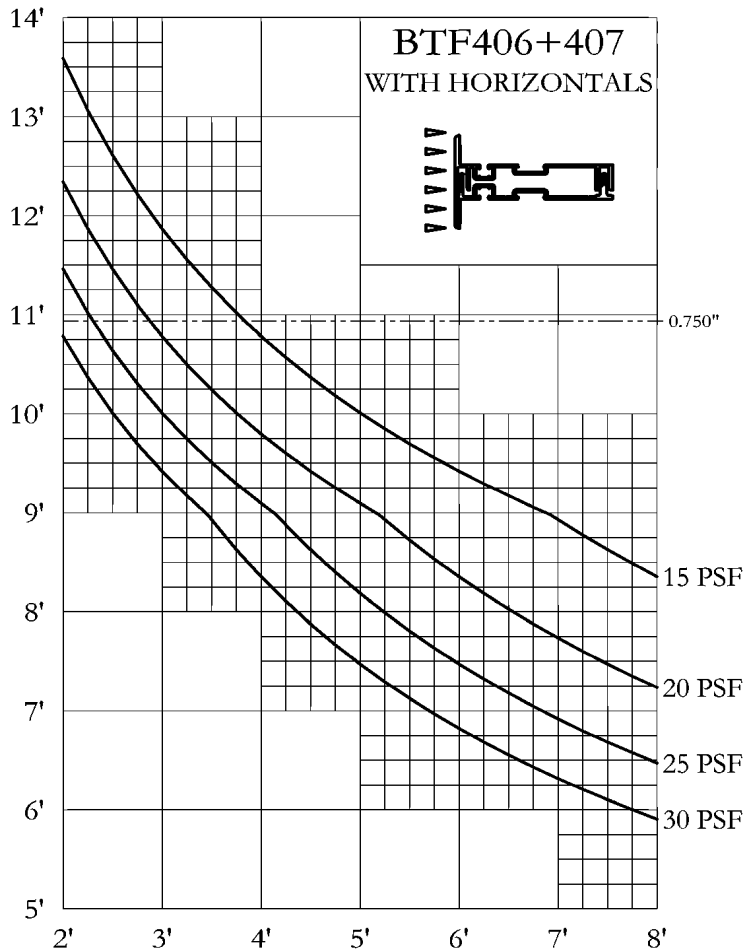
WEIGHT PER FT	EST PER	FACTOR	CAVITY AREA	PART NUMBER	STRUCTURAL VALUES			1/8 SIZE DETAILS
					X-X	I	Y-Y	
0.084	2.554	30	N/A	BTF419	0.006	I	0.000	
					0.011	S	0.000	
0.193	5.963	31	N/A	BTF420	0.015	I	0.021	
					0.026	S	0.043	
0.266	8.049	30	N/A	BTF421	0.019	I	0.066	
					0.029	S	0.068	
0.239	7.299	31	N/A	BTF422	0.017	I	0.039	
					0.027	S	0.054	
1.279	18.411	22	DDS	BTF423	0.423	I	1.921	
					0.308	S	0.913	
0.925	24.043	26	DDS	BTF424	0.218	I	1.495	
					0.180	S	0.647	
0.406	11.877	29	N/A	BTF427	0.025	I	0.289	
					0.036	S	0.189	
0.433	12.627	29	N/A	BTF428	0.026	I	0.361	
					0.037	S	0.219	
0.360	10.532	29	N/A	BTF429	0.024	I	0.220	
					0.035	S	0.161	
0.856	17.084	20	DDS	BTF431	0.129	I	1.627	
					0.085	S	0.628	
0.401	10.593	26	N/A	BTF432	0.003	I	0.491	
					0.007	S	0.215	
0.698	18.379	26	DDS	BTF433	0.104	I	1.269	
					0.077	S	0.538	
0.389	11.256	29	N/A	BTF1755	0.037	I	0.551	
					0.033	S	0.231	
0.221	4.608	21	N/A	BIW311	0.004	I	0.043	
					0.008	S	0.045	
0.413	5.750	14	N/A	A-1455	0.006	I	0.166	
					0.016	S	0.166	

WINDLOAD CHARTS
4" THERMAL FRAMING
BTF-400 SERIES



#1 THESE WINDLOAD CHARTS ARE BASED UPON THE LESSER OF DEFLECTION RATIO ($L/175$) OR STRESS (12667)

#2 THESE STRUCTURAL CURVES ARE ESTIMATES AND ARE PRESENTED TO THE BEST KNOWLEDGE OF THE WILLIAM L BONNELL CO. IT IS, HOWEVER, THE RESPONSIBILITY OF THE CUSTOMER TO BE SATISFIED THAT THE CURVES ARE CORRECT. THE WILLIAM L BONNELL CO. MAY NOT BE HELD RESPONSIBLE IN ANY WAY FOR THE FAILURE OF PERFORMANCE RESULTING FROM THE USE OF THESE CURVES.



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GLAZING INFORMATION

REED RUBBER PRODUCTS

PH #: 1-800-325-9698

1/4" x 1/2" REEDSEAL TAPE

3/16" x 1/2" REEDSEAL TAPE

3654 ROLL-IN

4005 MULLION (U-CHANNEL)

4006 PERIMETER WIPER GASKET (LIGHT)

4007 HEAD PERIMETER GASKET (HEAVY)

UNIVERSAL RUBBER COMPANY

PH. #: 1-800-782-2375

3032-V I-MULLION SEAL

2084 GLAZING TAPE

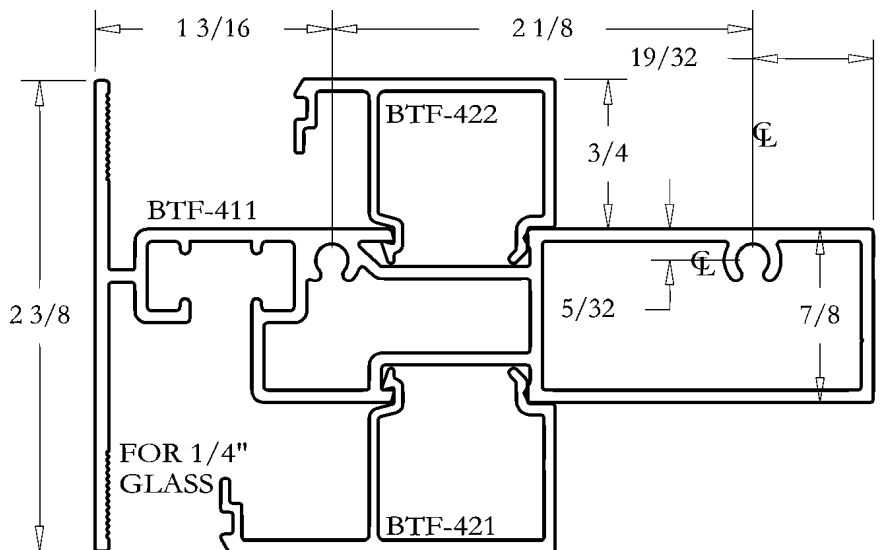
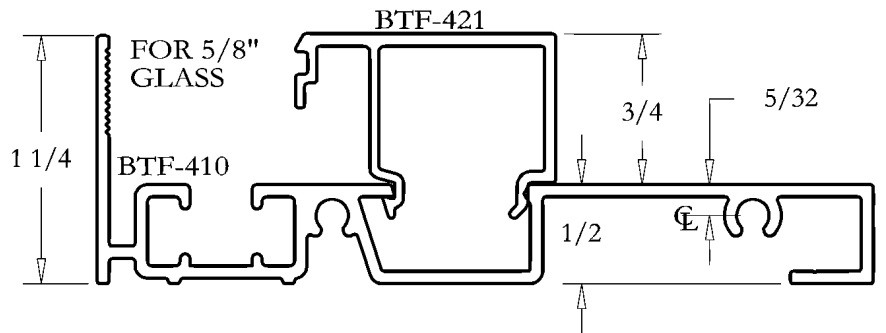
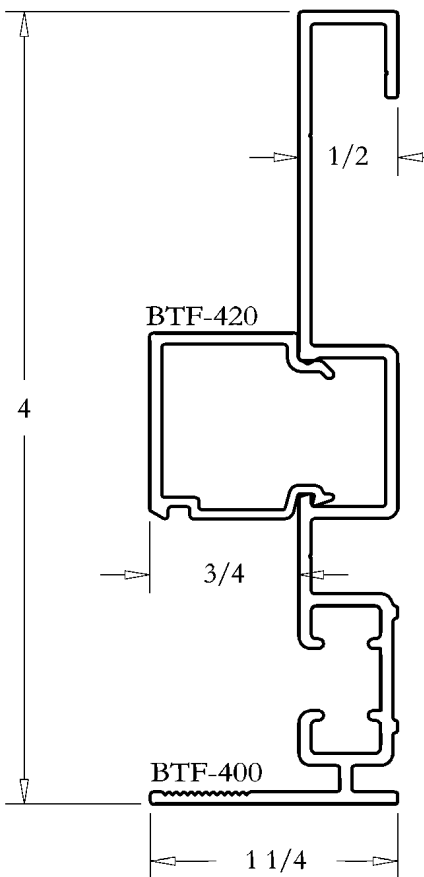
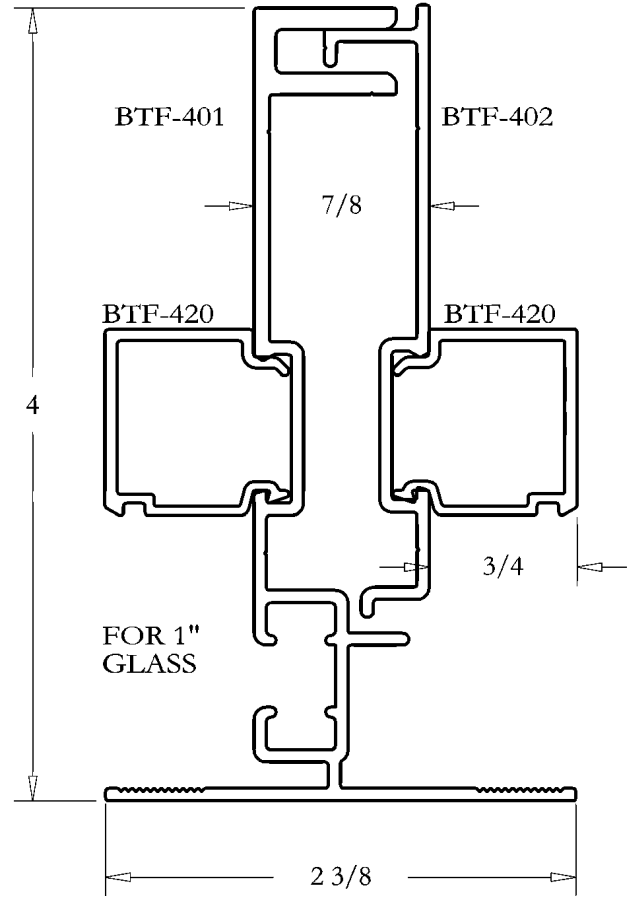
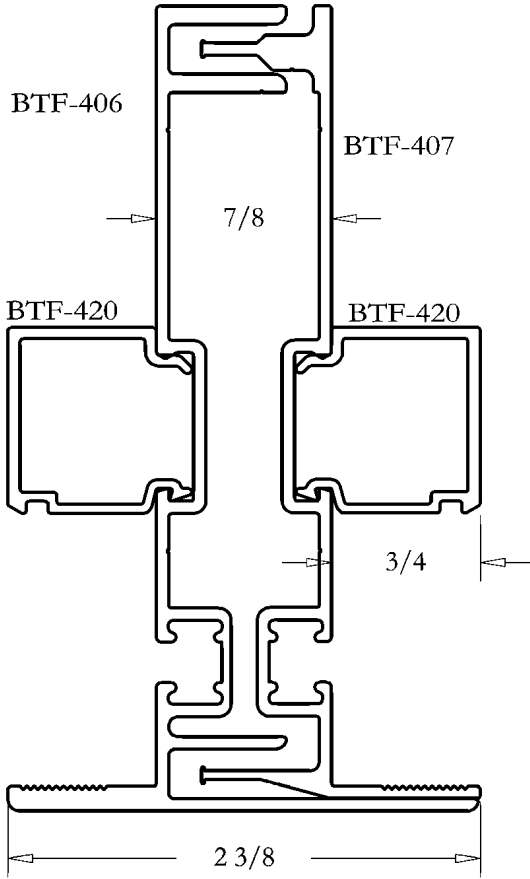
3239-V PERIMETER SEAL

TREMCO

PH. #: 1-800-321-6357

TR-2069E INTERIOR GLAZING

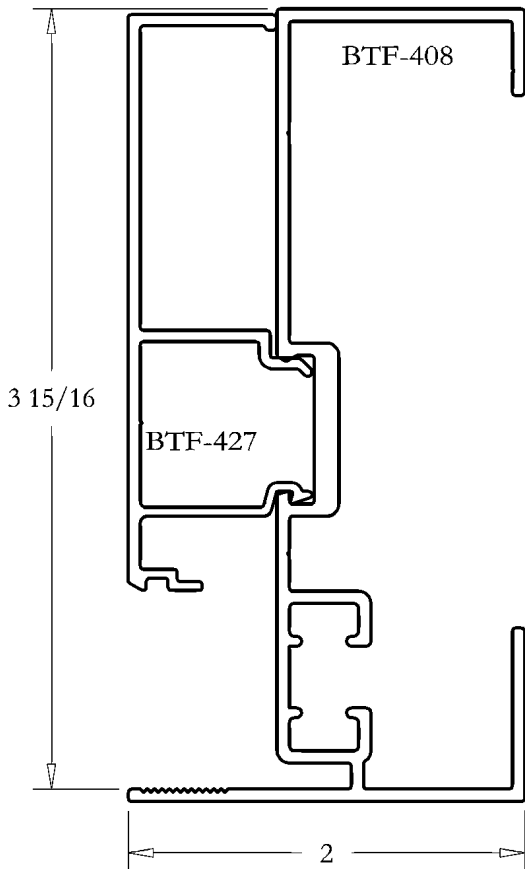
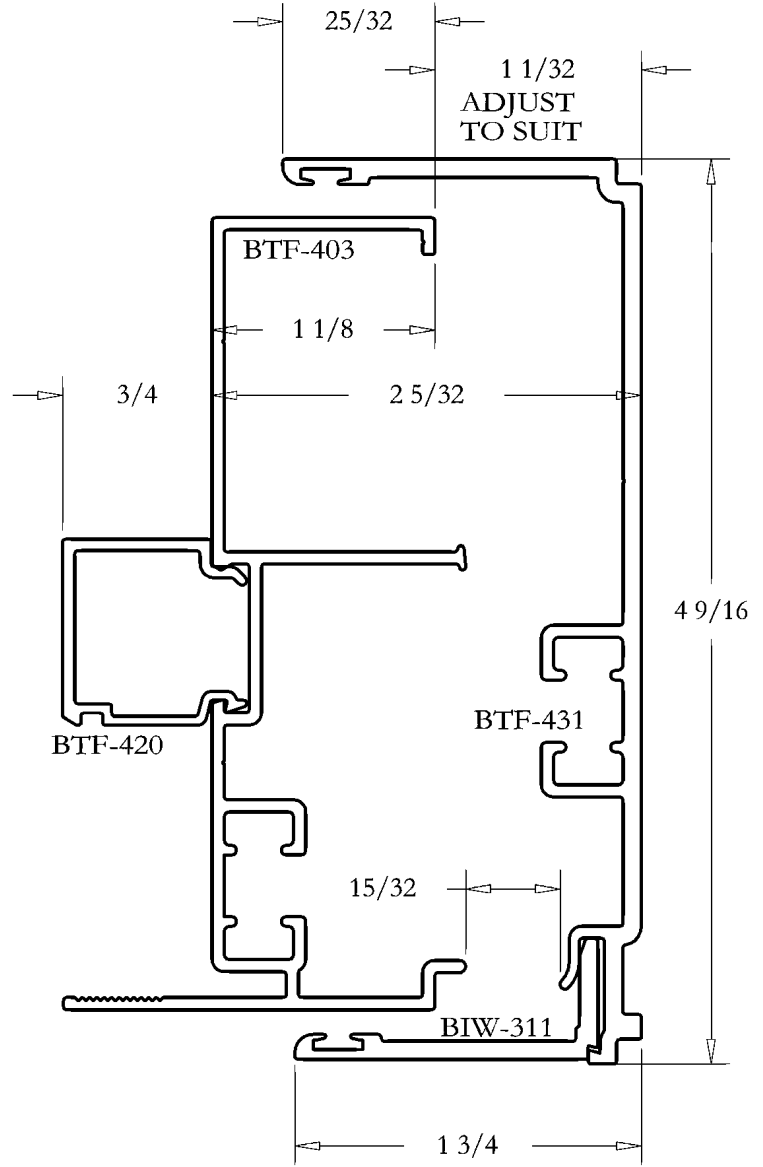
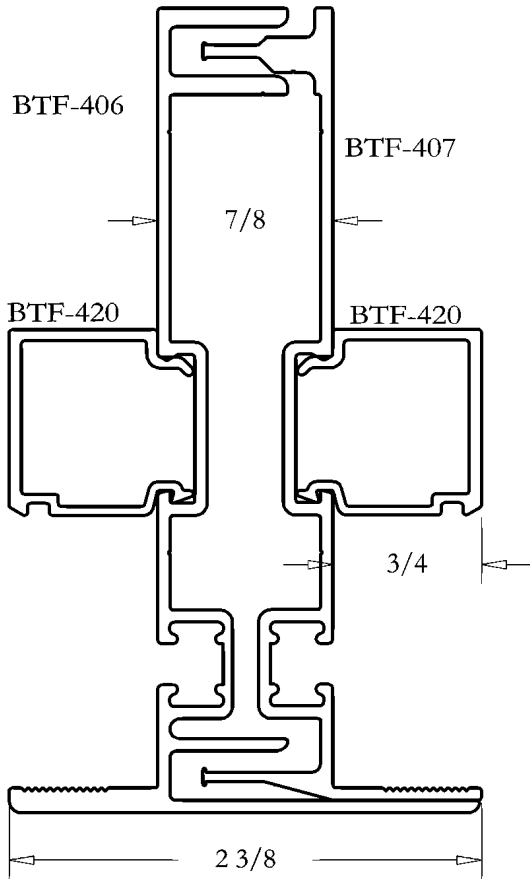
FULL SIZE DETAILS



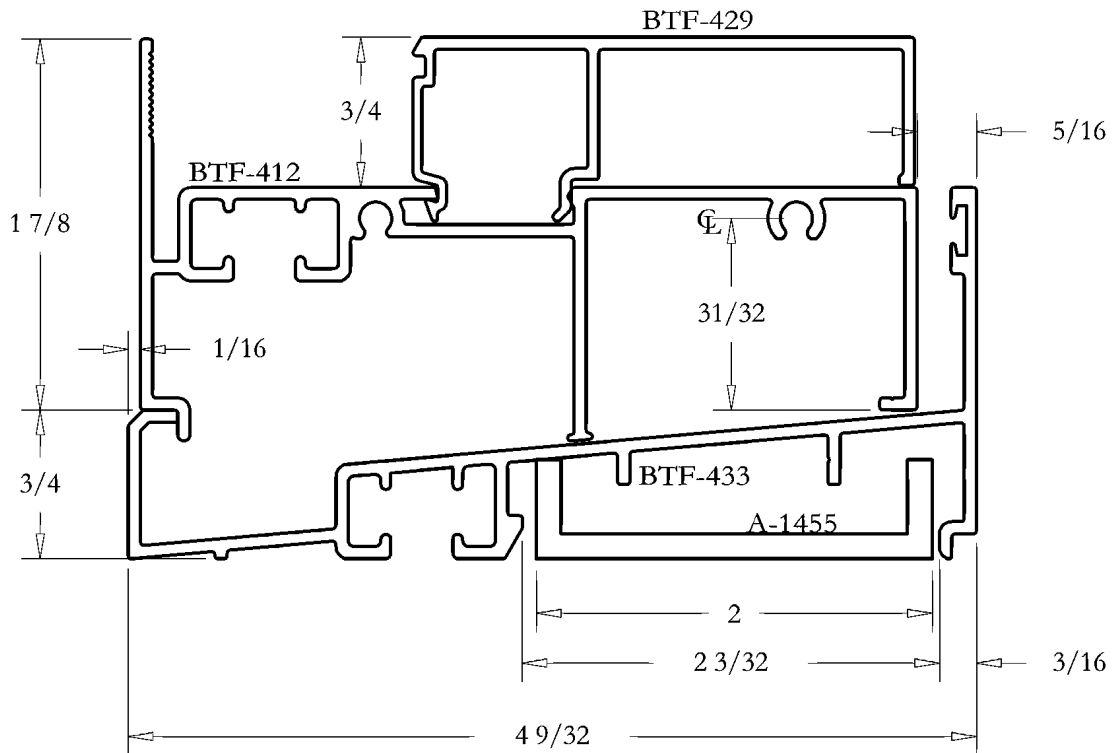
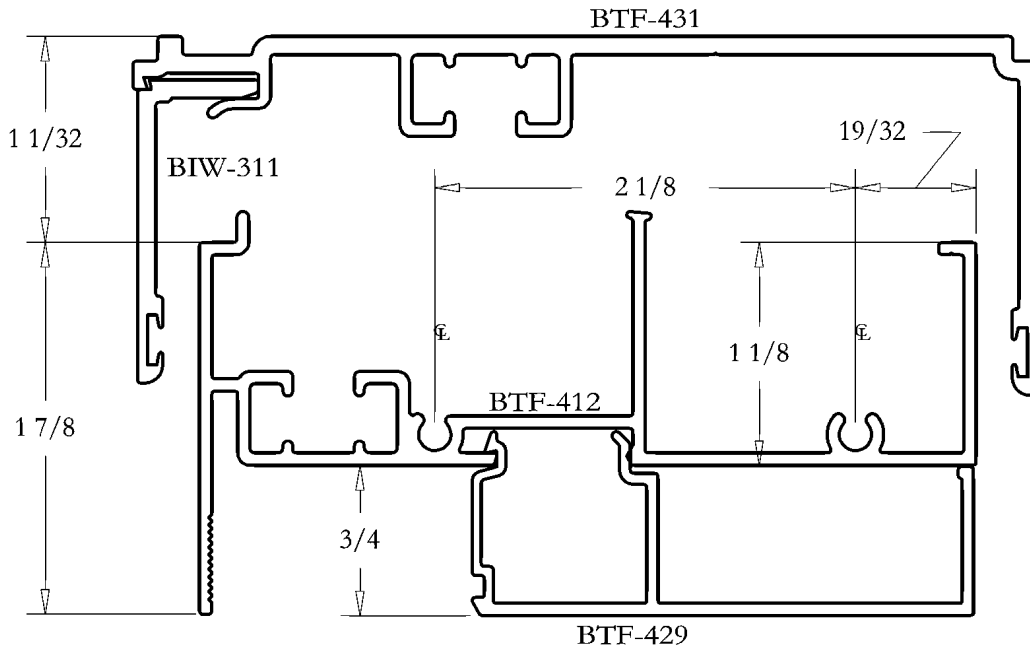
DETAIL SHEET
4" RECEPTOR SYSTEM
BTF-400 SERIES



FULL SIZE DETAILS



FULL SIZE DETAILS

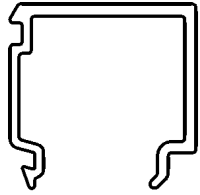


ALWAYS USE SUB-SILL
OR FLASHING AT SILL

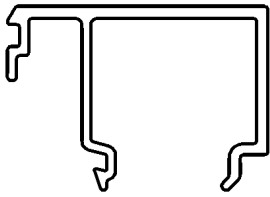
DETAIL SHEET
GLASS STOPS & SPECIAL RAILS
BTF-400 SERIES



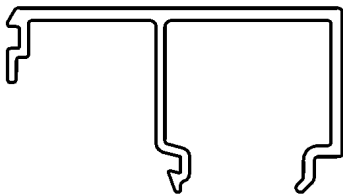
FULL SIZE DETAILS
BTF-429



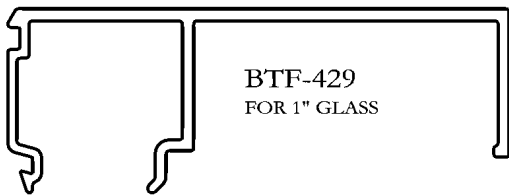
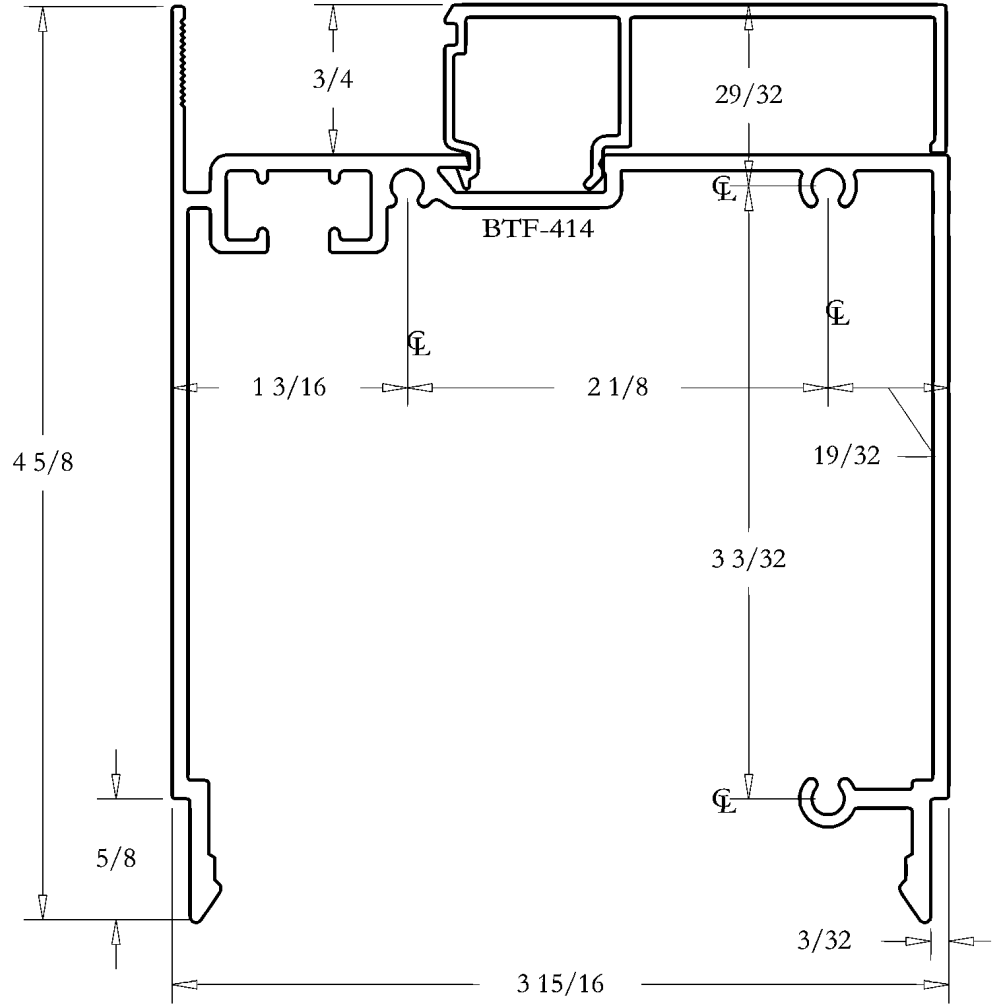
BTF-420
FOR 1" GLASS



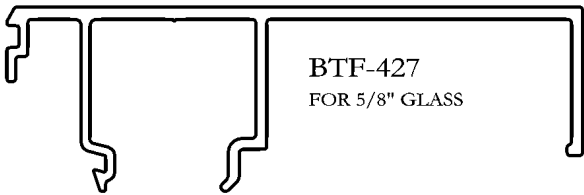
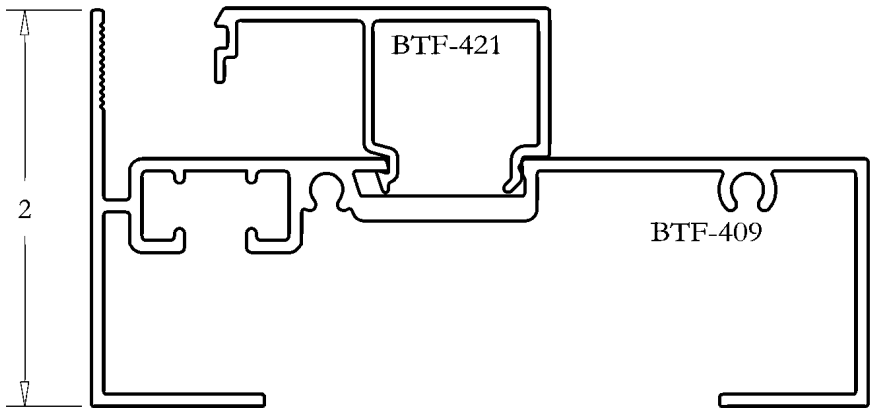
BTF-422
FOR 5/8" GLASS



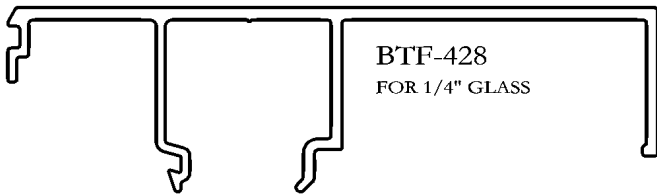
BTF-421
FOR 1/4" GLASS



BTF-429
FOR 1" GLASS

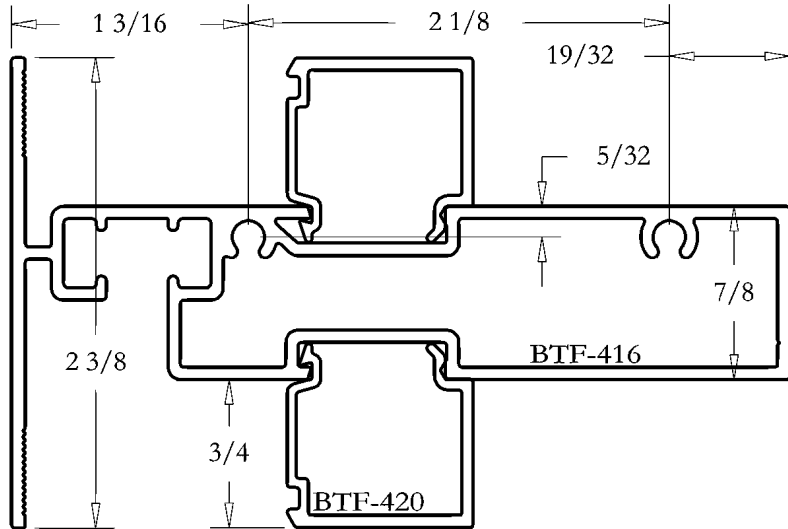
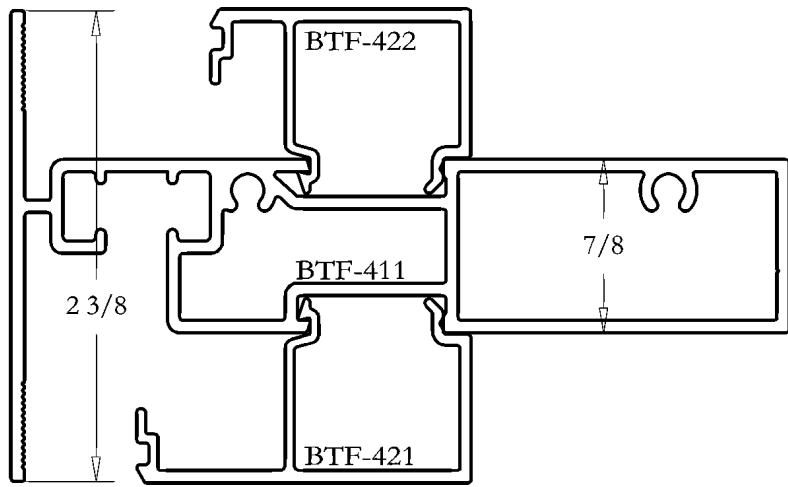
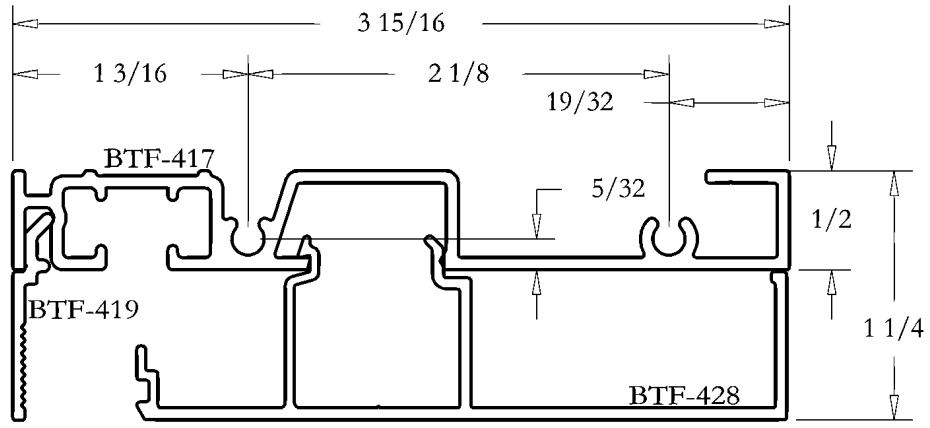


BTF-427
FOR 5/8" GLASS



BTF-428
FOR 1/4" GLASS

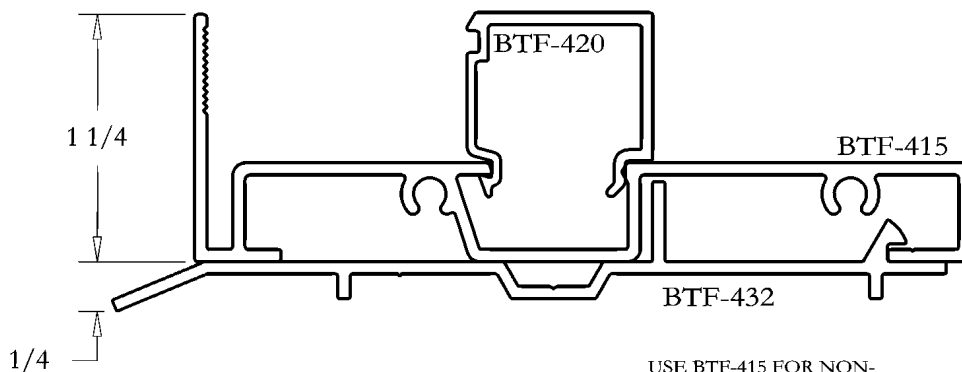
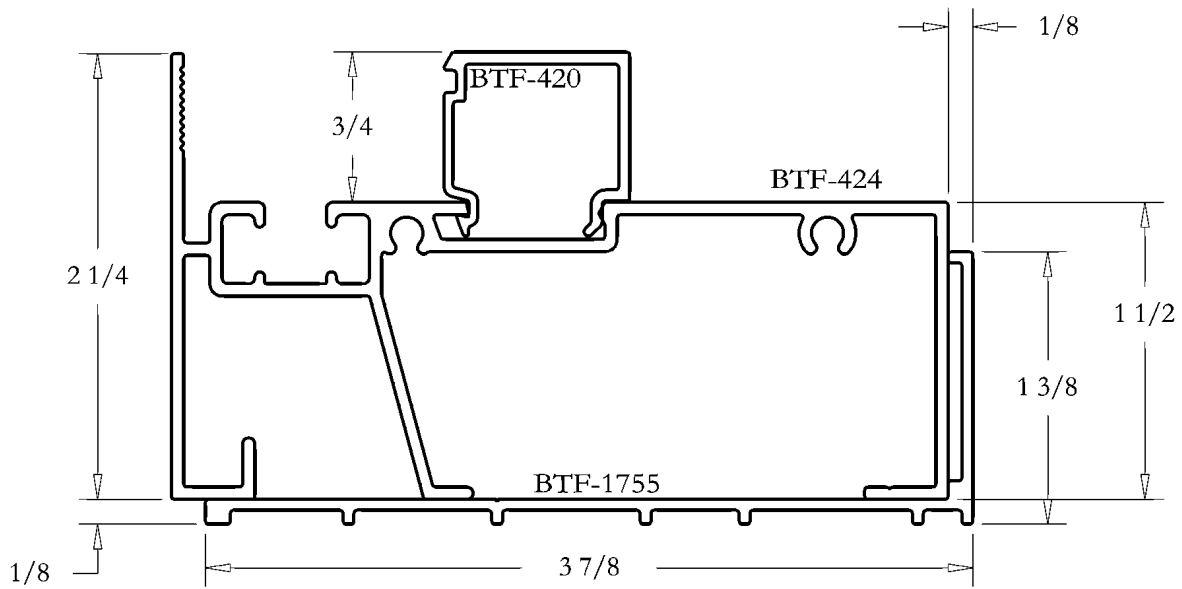
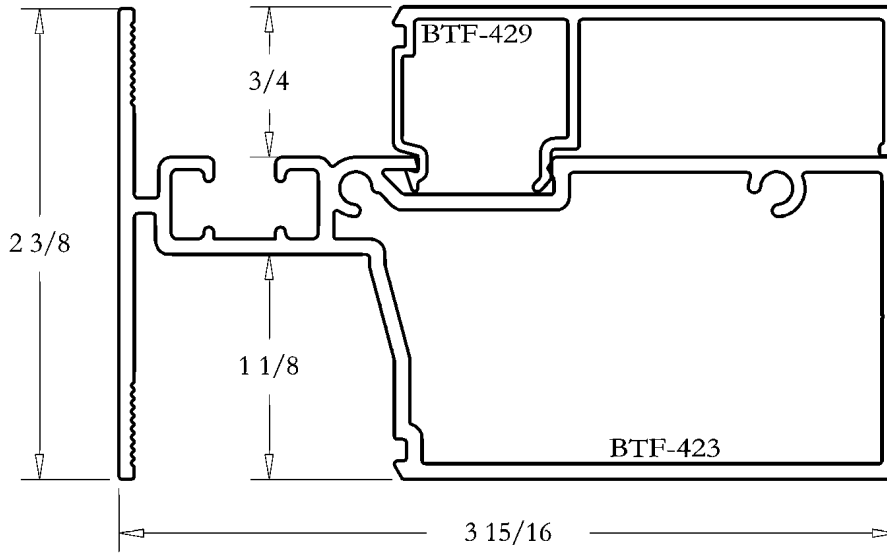
FULL SIZE DETAILS



DETAIL SHEET
4" SPECIAL USE RAILS
BTF-400 SERIES



FULL SIZE DETAILS



USE BTF-415 FOR NON-THERMAL SYSTEMS WITH TYPICAL RAILS, NOT Poured AND DEBRIDGED.