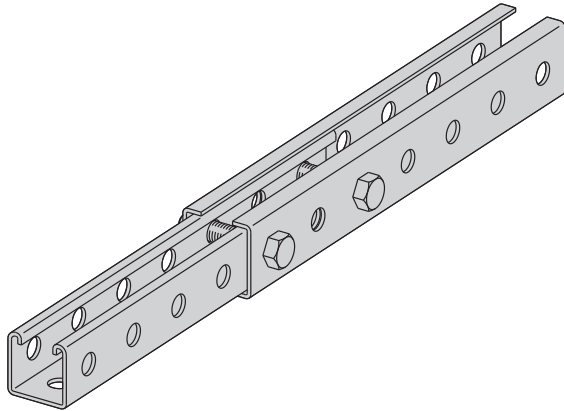


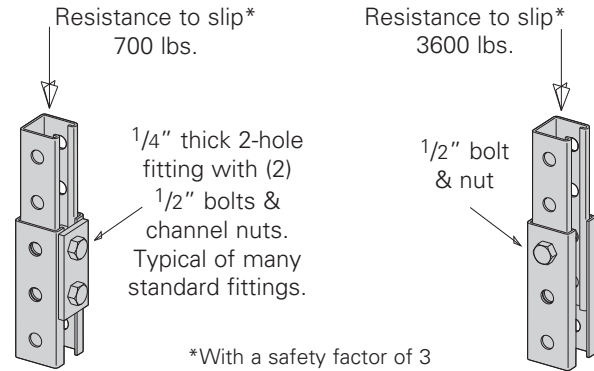
# Telescoping Channel

## BTS22TH

- Can be secured at any point of system
- Order BTS22TH & B22TH separately
- Thickness: 12 Gauge (2.6 mm)
- Standard lengths: 10' (3.05 m)
- Standard finishes: DURA GREEN™, Yellow Zinc Dichromate, Hot-Dipped Galvanized



## Slip Load Data

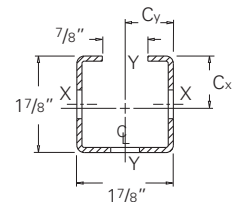


## BTS22TH Telescoping Strut

Fits over all 1 5/8" x 1 5/8" channels 9/16" holes on 1 7/8" centers 12 gauge material thickness

Section Properties			X-X Axis				Y-Y Axis			
Channel	Weight lbs./ft.	Area In <sup>2</sup>	C <sub>x</sub> In	I <sub>x</sub> In <sup>4</sup>	S <sub>x</sub> In <sup>3</sup>	r <sub>x</sub> In	C <sub>y</sub> In	I <sub>y</sub> In <sup>4</sup>	S <sub>y</sub> In <sup>3</sup>	r <sub>y</sub> In
BTS22TH	1.934	0.4578	1.0009	0.2525	0.2523	0.7426	0.9375	0.2757	0.2941	0.7761

Section properties are based on nominal metal thickness, and overall dimensions.

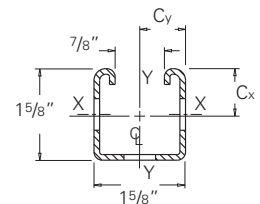


## B22TH Three Hole Strut

9/16" holes on 1 7/8" centers 12 gauge material thickness

Section Properties			X-X Axis				Y-Y Axis			
Channel	Weight lbs./ft.	Area In <sup>2</sup>	C <sub>x</sub> In	I <sub>x</sub> In <sup>4</sup>	S <sub>x</sub> In <sup>3</sup>	r <sub>x</sub> In	C <sub>y</sub> In	I <sub>y</sub> In <sup>4</sup>	S <sub>y</sub> In <sup>3</sup>	r <sub>y</sub> In
B22TH	1.760	0.3863	0.8245	0.1596	0.1936	0.6400	0.8125	0.1719	0.2116	0.6642

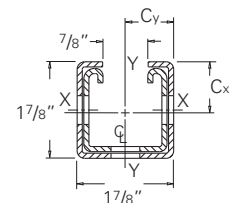
Section properties are based on nominal metal thickness, and overall dimensions.



## Combination of BTS22TH & B22TH

Section Properties			X-X Axis				Y-Y Axis			
Channel Combination	Weight lbs./ft.	Area In <sup>2</sup>	C <sub>x</sub> In	I <sub>x</sub> In <sup>4</sup>	S <sub>x</sub> In <sup>3</sup>	r <sub>x</sub> In	C <sub>y</sub> In	I <sub>y</sub> In <sup>4</sup>	S <sub>y</sub> In <sup>3</sup>	r <sub>y</sub> In
BTS22TH/B22TH	3.597	0.8474	0.9773	0.4126	0.4222	0.6978	0.9375	0.4476	0.4774	0.7268

Section properties are based on nominal metal thickness, and overall dimensions.

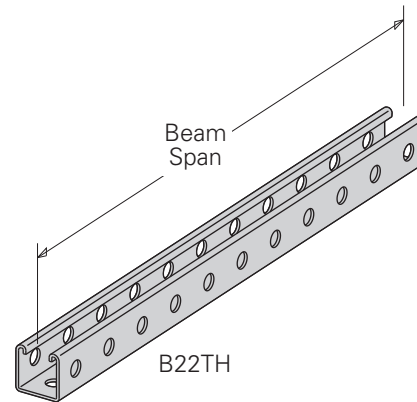


# Telescoping Channel

## Beam Loading Data

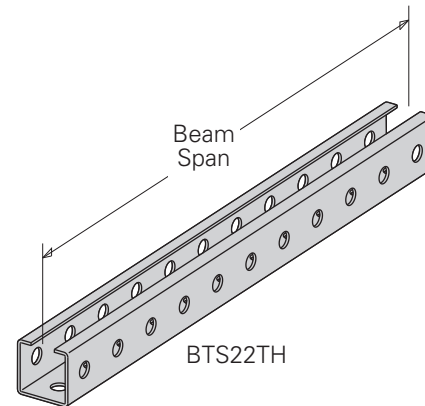
### B22TH

Beam Span in	Beam Load Data x-x Axis			
	Allowable Load lbs*	Resulting Deflection in	Allowable Load @ Deflection=1/240 Span	
			Lbs.	kN
12	2225	0.015	3225	(14.34)
24	1610	0.061	1610	(7.16)
36	1071	0.136	1071	(4.76)
48	800	0.243	658	(2.92)
60	637	0.379	417	(1.85)
72	528	0.546	286	(1.27)
84	449	0.743	206	(0.91)
96	390	0.970	153	(0.68)
108	344	1.228	116	(0.51)
120	306	1.516	90	(0.40)



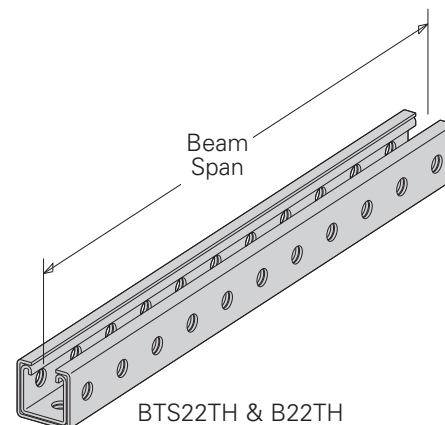
### BTS22TH

Beam Span in	Beam Load Data x-x Axis			
	Allowable Load lbs*	Resulting Deflection in	Allowable Load @ Deflection=1/240 Span	
			Lbs.	kN
12	4203	0.012	4203	(18.69)
24	2099	0.050	2099	(9.33)
36	1396	0.112	1396	(6.21)
48	1044	0.200	1044	(4.64)
60	831	0.312	664	(2.95)
72	689	0.450	456	(2.03)
84	587	0.612	330	(1.48)
96	510	0.799	248	(1.10)
108	450	1.012	190	(0.84)
120	401	1.249	149	(0.66)



### BTS22TH & B22TH Telescoping Members of Equal Length

Beam Span in	Beam Load Data x-x Axis			
	Allowable Load lbs*	Resulting Deflection in	Allowable Load @ Deflection=1/240 Span	
			Lbs.	kN
12	7033	0.013	7033	(31.28)
24	3511	0.051	3511	(15.62)
36	2335	0.115	2335	(10.38)
48	1745	0.205	1705	(7.58)
60	1389	0.320	1082	(4.81)
72	1151	0.460	742	(3.30)
84	980	0.627	536	(2.38)
96	851	0.819	401	(1.78)
108	749	1.036	307	(1.36)
120	668	1.279	239	(1.06)



\*Based on simple beam condition using an allowable design stress of 25,000 psi (172 MPa) with adequate lateral bracing (see page 12 for further explanation). To determine concentrated load capacity at mid span, multiply uniform load by 0.5 and corresponding deflection by 0.8.