

Sandown Wireless

BX TOWER SERIES

- X Brace design for strength. Braces riveted in center as well as ends.
- All Riveted Construction.
- Greater width and weight at bottom.
- Beaded channel leg for added strength
- All steel.
- Pregalvanized for added life.
- Rotators easily installed.
- Three steps included on one face of top section.

Sections nest inside each other for compact shipment.



BX	HBX	HDBX
Standard Basic Tower Needs	Heavy Duty For Heavier Capacity	Extra Heavy Duty Our Heaviest BX Tower
Maximum height 64'	Maximum height 56'	Maximum height 48'
Can be used with Concrete Base Stubs	Can be used with Concrete Base Stubs	Can be used with Concrete Base Stubs
Available in heights of 24' to 64' in 8' increments	Available in heights of 24' to 56' in 8' increments	Available in heights of 24' to 48' in 8' increments
Up to 6 square feet antenna capacity	Up to 12 square feet antenna capacity	Up to 20 square feet antenna capacity
Top of tower is a 8- 1/8" triangle	Top of tower is a 10- 3/16" triangle	Top of tower is a 12- 3/4" triangle
Includes 8' mast (M8)	Mast not included	Mast not included
Always has #1 as a top section	Always has #2 as a top section	Always has #3 as a top section

For more information contact:

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RSPSupply - 1-888-532-2706 - www.RSPSupply.com , http://www.RSPSupply.com/p-7609-Rohn-Tower-THDBX40-Extra-Heavy-Duty-40'-BX-Tower-Package.aspx

BX Tower Accessories



Tower packages - compact shipping and storage method. Includes all necessary parts and hardware. All towers are recommended to be bracketed for extra safety and to withstand gusty wind conditions.

Note: Local building and / or zoning laws frequently require a building permit. Available BX Engineering Data should be submitted for approval prior to purchasing a tower.

BX TOWER

Part # 8'BX Sections

BX1A	Offset top section w/BXT1, BXR1, BXMK2	26#
BX2	Standard offset section	24#
BX2A	Offset top section w/BXT2, BXR2, FL	31#
BX3	Standard offset section	29#
BX3A	Offset top section w/BXT3, BXR3, FL	39#
BX4	Standard offset section	42#
BX5	Standard offset section	60#
BX6	Standard offset section	65#
BX7	Standard offset section	75#
BX8	Standard offset section	83#

Nuts and bolts are included in section prices.

BX Accessories

BXMK2	Mast hardware kit w/rotor post for top and rotor plate	2#
FL	Heavy duty mast clamp	3#
TB3	Heavy duty thrust bearing, recommended for 2" OD tubing (for use	2 ¹ / ₂ #
	w/section 3 with field drilled hole)	
TB4	Heavy duty thrust bearing, recommended for 3" OD tubing (for use	3#
	w/section 3 with field drilled hole)	
BXSM	Side mount (28"- 40") w/4', 1 $\frac{1}{4}$ " OD mast (fits sections 1 thru 4)	12#
BXSK1	Extra step kit for section 1 (3 steps on one face)	15#
BXSK2	Extra step kit for section 2 (3 steps on one face)	1#
BXSK3	Extra step kit for section 3 (3 steps on one face)	1#

Top and Rotor Plates

BXT1A	Top plate for section 1 w/hardware nuts, bolts, and ACWS	2#
BXT2A	Top plate for section 2 w/hardware nuts, bolts, and ACWS	2#
BXT3A	Top plate for section 3 w/hardware nuts, bolts, and ACWS	2 ½#
BXR1A	Rotor plate for section 1 w/hardware nuts, bolts, and ACWS	1 ½#
BXR2A	Rotor plate for section 2 w/hardware nuts, bolts, and ACWS	2#
BXR3A	Rotor plate for section 3 w/hardware nuts, bolts, and ACWS	2 ¹ / ₂ #

Masts

M8	8' mast (1 ¹ /4'')	6 ¹ / ₂ #

BX TOWER

Part Number Self-Supporting Standard BX w/(M8) 8' Mast

BX24	24' Standard Tower Assembly w/M8 (Order base stubs as a separate item)	96#
BX32	32' Standard Tower Assembly w/M8 (Order base stubs as a separate item)	142#
BX40	40' Standard Tower Assembly w/M8 (Order base stubs as a separate item)	205#
BX48	48' Standard Tower Assembly w/M8 (Order base stubs as a separate item)	273#
BX56	56' Standard Tower Assembly w/M8 (Order base stubs as a separate item)	351#
BX64	64' Standard Tower Assembly w/M8 (Order base stubs as a separate item)	450#

Part Number

Self-Supporting Heavy Duty BX Tower w/(FL) Mast Clamp

HBX24	24' Heavy Duty Tower Assembly (Order stubs as a separate item)	143#
HBX32	32' Heavy Duty Tower Assembly (Order stubs as a separate item)	187#
HBX40	40' Heavy Duty Tower Assembly (Order stubs as a separate item)	254#
HBX48	48' Heavy Duty Tower Assembly (Order stubs as a separate item)	328#
HBX56	56' Heavy Duty Tower Assembly (Order stubs as a separate item)	419#

Part Number

Self-Supporting Extra Heavy Duty BX Tower w/(FL) Mast Clamp

HDBX24	24' X-Heavy Duty Tower Assembly (Order stubs as a separate item)	171#
HDBX32	32' X-Heavy Duty Tower Assembly (Order stubs as a separate item)	231#
HDBX40	40' X-Heavy Duty Tower Assembly (Order stubs as a separate item)	305#
HDBX48	48' X-Heavy Duty Tower Assembly (Order stubs as a separate item)	397#

Part Number

4' Concrete Base Stubs (Set of 3) (Tower height not to exceed 64 ft.)

BXB3	Stubs for section 3	13#
BXB4	Stubs for section 4	17#
BXB5	Stubs for section 5	18#
BXB6	Stubs for section 6	22#
BXB7/8	Stubs for section 7 & 8	25#

Part Number

Self-Supporting Hinged Concrete Base for all Sections (Tower height not to exceed 64 ft.)

BXHC36	Fits sections 3 through 6	27#
BXHC78	Fits sections 7 and 8	56#



<u>MAST ASSEMBLY</u> BX-STANDARD/HBX-HEAVY DUTY/HDBX-EXTRA HEAVY DUTY TOWERS

1. Two U-bolt assemblies with "L" brackets are supplied for installing the mast. These "L" brackets are bolted through the slotted holes on the rotor and top plate with the short legs of the "L" bracket toward the outside of the tower. See Drawing C750429.

2. Run the U-bolt through the open side of the formed "V" clamp and into the "L" bracket placing the 5/16" nuts and washers on the U-bolt loosely.

3. To install the mast, place one end of it through the upper U-bolt assembly end plate and slide it down into the lower U-bolt assembly to hold the mast.

4. Adjustments to make the mast vertical may be made by moving the "L" brackets in the slotted holes.

The HDX – Heavy Duty and HDBX – Extra Heavy Duty Towers are furnished with a mast clamp installed on the top plate made from a pipe floor flange, which is provided with three bolts to be used as set screws to secure the mast. The box of hardware consists of one U-bolt assembly as described above and it can be installed on the lower plate as is instructed above, if required.

ASSEMBLY INSTRUCTIONS

BREAKING DOWN THE BUNDLE

1. If your tower includes the 8' mast and/or three 4' base stubs, remove them. Remove the package of nuts, bolts and washers.

2. Lay the bundle on its side and remove the tower sections. Start with the innermost section of the package (the smallest section) and remove by pulling out with quick, firm jerks. It is not necessary nor desirable to pry the tower sections out with tools as damage may result.

3. Inspect all tower sections on delivery to make sure there are no loose or broken rivets caused by transport mishandling. If a rivet is broken or loose, it should be replaced by a snug-fitting machine bolt and nut, securely tightened.

TOWER

After you have chosen the desired type of base for your tower (concrete base with BXB concrete base stubs, BXHC hinged concrete base, or BXCA cylinder base which hinges over and requires no concrete) and it is properly installed per base instructions, bolt the base section (the largest section) to the base. Proceed with the erection as follows:

1. The legs on each higher section slide inside the previous one and should be positioned on the rivet stop in the previous leg. (This rivet stop is to prevent the tower section being installed from slipping through the previous section and is not for the purpose of aligning the assembly holes.) (Special Note: the BX8 section does not have a rivet stop in it, so extreme caution should be used when installing the BX7 section into the BX8 section.) Proceed by bolting together each section with the proper size bolts.

2. To erect the tower, section by section vertically, you should use an EFBX erection fixture for raising and locating the section being installed into the previous section. (Note: do not use an erection fixture to lift more than the weight of one tower section at a time.) By using BXHC or BXCA base the tower can be assembled on the ground and hinged up using extreme caution. When hinging up, watch for power lines, trees, etc.

3. Loose, missing or faulty rivets should be replaced with a similar size nut and bolt which can be obtained at any local hardware.

<u>Note:</u> 3/8" bolts are used on BX1, BX2 and the top of the BX3 sections. 9/16" bolts are used on the bottom of the BX3 and all sections from BX4 through BX8 (BX8 is the largest section).

One set of cross braces on one face of the top section is purposely left off to allow easy access to the rotor plate for installing the mast and rotor. (Note: Only one person should be on the tower at one time.)

CAUTION...Be sure hinge bolts on hinged type accessories are loosened before attempting to hinge tower up or down. All hinged type bases are intended to be used to raise tower only without antenna. When raising and lowering tower on any hinged type base, the loads applied for raising the tower must be applied equally on both sides of the tower using a cradle or by using several attachment points in order to prevent overloading a tower member and to reduce the possibility of twist on the tower and hinges at the base. Special care must be taken to avoid the use of raising and lowering methods which cause damage to tower or base. Tower must be initially raised prior to applying tension to a hoisting line to avoid a large horizontal force pulling the tower into the base. Towers and bases must only be installed and dismantled by professional and experienced installers. Field welding is prohibited on tower, base and anchor bolts.

Be sure to check anchor bolt projections per drawing C760099R7. Make sure the anchor bolt is not interfering with the raising or lowering of the hinge pipe. Check this before attempting to hinge up or lower the tower.

NOTES ON ASSEMBLING ROTATORS

Most all makes of rotators can be installed on the rotor plate inside the top tower section of the BX standard, HBX, heavy duty, and HDBX extra heavy duty towers. There is a short piece of tubing furnished with each tower that can be used as a thrust bearing (for 1-1/4" mast) with the mast clamp installed on the top plate as is described under the heading Mast Assembly. Do not install rotators on the HDBX top plate.

For the HBX – Heavy Duty and HDBX 0 Extra Heavy Duty Towers, when a rotator is used a 4" piece of tubing or pipe with an I.D. larger than the O.D. of the mast can be installed in the pipe flange clamp and used as a bearing for the mast to turn in.

FOR ASSEMBLING THE ROTATOR ITSELF, FOLLOW THE PROCEDURES OUTLINED BELOW:

Some inline model rotators mount directly to the rotor plate. (The lower housing of the rotator is not used when this is done.) The necessary holes for mounting most rotors are pre-punched in the plate itself and the bolts furnished to bolt the lower housing to the upper housing $(4-1/4" \times 1")$ bolts) are to be inserted from the bottom of the plate upward and into the rotor. It is desirable to place 3/8" nuts to act as spacers between the rotor plate and the rotator.

These nuts will prevent the terminals of the rotator and the rotor wire from shorting on the rotor plate. An 8" piece of tubing is furnished with each tower. It can be installed into the clamp ("V" clamp and "L" shaped brackets furnished for offset rotor installation only) for the offset type rotors. It is necessary to reverse the clamp assembly (to face outside of the tower), opposite that of installing a standard mast to the rotor plate. Some rotators can be mounted directly to the "L" shaped bracket as shown or to the 8' mast as previously described.

Also, some rotators mount beneath the rotor plate (as pictured). It will be necessary to increase the 1/4" holes in the rotor plate to 3/8" holes to use the 3/8" bolts furnished with these rotators. See pictorial views of typical rotor installations:



In all cases be careful during installation.

Notes:

Do not install towers near power lines. All towers should be installed out of falling distance of power lines since every electrical and telephone wire should be considered dangerous.

ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers. Only one person should be on the tower at a time.

All antenna installations must be grounded per local or national codes.

All towers should be installed and dismantled by experienced and trained personnel.

All types of antenna installations should be thoroughly inspected by qualified personnel at least twice a year and re-marked with hazard and warning labels to ensure safety and proper performance. A safety package (part number ACWS) is available which includes one anti-climb warning sign and two Danger – Watch for Wires labels along with other printed safety information.



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Typical Tower Analysis

Tower Design Data: Model BX-64

Wind Pressure ----- 20 PSF

Antenna Load --- 6 SQ.FT. at 3FT. above

Note: Antennas developing a large twisting moment due to wind must not be used on This tower. Antennas should be limited to those having a maximum boom length of 10 FT.

Tower top $-\frac{1}{2}$ in. line Antenna WT. = 50 LBS. Line WT. = 0.5 LBS. 1 FT.

Section No.	8	7	6	5	4	3	2	1
Distance From Top (FT.)	61.7	53.7	46.0	38.3	30.7	23.0	15.3	7.7
Wind on Section (LBS.)	179.7	161.7	150.0	139.5	115.5	107.7	101.1	96.0
Wind on Antenna & Line (LBS.)	5.5	5.3	5.3	5.3	5.3	5.3	5.3	127.4
Total Wind on Section (LBS.)	185.2	167.0	155.3	144.8	120.4	113.0	106.4	223.4
Shear (LBS.)	1215.9	1030.7	863.7	708.4	563.6	442.8	329.8	223.4
Moment (FTLBS.)	37,770	28,790	21,530	15,500	10,620	6770	3810	1690
Face Width (FT.)	2.284	2.047	1.824	1.602	1.381	1.184	.989	.794
.866 x Face Width (FT.)	1.978	1.773	1.580	1.388	1.196	1.025	.856	.688
Leg Load (LBS.) ⁽¹⁾	19,100	16,240	13,630	11,170	8880	6600	4450	2460
Section Weight (LBS.)	82	75	64	59	41	28	23	22
Total Weight (LBS.)	476	390	312	244	181	136	104	77
*Leg Load with Weight (LBS.)	19,260	16,370	13,730	11,250	8940	6650	4490	2480
Shear One Face (LBS.) ⁽²⁾	815	691	579	475	378	297	221	150
COS Ø	.904	.883	.858	.827	.783	.733	.667	.580
* Load Each Brach (LBS.) ⁽³⁾	451	391	337	287	241	203	166	129

(1) Leg Load = \underline{Moment} . .866 x Face Width

(2) Shear One Face = .67 x Shear

(3) Load Each Brace = $\frac{\text{Shear One Face}}{2 \times \cos \emptyset}$



*Refer to DWG. No. B-760025 for allowable loads of members & connections.

Model BX Tower							
Allowable Antenna Loads *							
Wind Pressure = 20 PSF (70.7 MPH)							
Nominal Height, FT.	Combination of Tower Sections	Catalog No.	Area, SQ.FT.	Thrust, LBS.			
	BX-1-2-3	BX-24	6	120			
24	BX-2-3-4	HBX-24	12	240			
	BX-3-4-5	HDBX-24	20	400			
	BX-1-2-3-4	BX-32	6	120			
32	BX-2-3-4-5	HBX-32	12	240			
	BX-3-4-5-6	HDBX-32	18	360			
	BX-1-2-3-4-5	BX-40	6	120			
40	BX-2-3-4-5-6	HBX-40	10	200			
	BX-3-4-5-6-7	HDBX-40	18	360			
	BX-1-2-3-4-5-6	BX-48	6	120			
48	BX-2-3-4-5-6-7	HBX-48	10	200			
	BX-3-4-5-6-7-8	HDBX-48	18	360			
EZ	BX-1-2-3-4-5-6-7	BX-56	6	120			
	BX-2-3-4-5-6-7-8	HBX-56	10	200			
64	BX-1-2-3-4-5-6-7-8	BX-64	6	120			

* This load can be applied at a point of 3ft. above the apex of the tower in addition to the given wind pressure acting on the tower.

<u>Note:</u> Antenna types should be limited to those having a maximum boom length of 10 feet. No engineering data relating to the use of boom lengths in excess of 10 feet is available and the use of such boom lengths is not recommended.

DEG. NO. A-760001 _{Rl}

BX Tower

25P

	DVCM	N.4				N A		N A	ь. г	N A	N A			N			
	BASM	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	BXHC78					Х	X				Х	Χ			Χ	Х	
	BXHC36	X	Х	Х	Х			Х	Χ	Χ			Х	Χ			
	BXB8						Х					Χ				Х	
	BXB7					Χ					Χ				Χ		
sories	BXB6				Х					Х				Χ			
Acces	BXB5			Χ					Χ				Х				
onal /	BXB4		Х					Χ									
Opti	BXB3	Χ															
	ACWS	Χ	X	Χ	Χ	Χ	Х	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	
	M8	Χ	Х	Χ	Χ	Χ	Х										
	BX8						Χ					Χ				Χ	
	BX7					Χ	Х				Χ	Χ			Χ	Χ	
	BX6				Χ	Χ	Х			Χ	Χ	Χ		Χ	Χ	Х	
	BX5			Х	Х	Χ	Х		Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	
	BX4		Χ	Χ	Χ	Χ	Х	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X	
	BX3A												Χ	Χ	Χ	Χ	
	BX3	Χ	Х	Χ	Χ	Χ	Х	Χ	Χ	Χ	Χ	Χ					
ping	BX2A							Χ	Χ	Χ	Χ	Χ					
r Ship	BX2	X	Χ	Χ	Χ	Χ	Χ										
fed fo:	BX1A	X	X	X	X	Χ	Х										
Packag	lodel	24	32	40	48	56	64	24	32	40	48	56	24	32	40	48	
Tower As	Tower M	ΒX	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	HBX	<u> </u>	<u> </u>	<u> </u>		HDBX		<u> </u>		

CAUTION....AX hardware is not interchangeable with BX hardware.

All types of antenna installations should be thoroughly inspected by qualified personnel at least twice a year and re-marked with hazard and warning labels to insure safety and proper performance.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.



Model BX Tower Design Assumptions

<u>Tower Material Specifications:</u> <u>Legs:</u> ASTM A-446 Grade C Steel (Minimum Yield Point – 45,000 PSI) (Galvanized according to ASTM A-525) <u>Braces:</u> Cold Rolled C-1017 Steel (Minimum Yield Point – 36,000 PSI) (Galvanized according to ASTM A-525) <u>Leg Splice Bolts:</u> SAE Grade 5 Steel <u>Rivets:</u> 2017-T4 Aluminum Alloy
<u>Tower Member Allowable Design Stresses:</u> <u>Note:</u> Allowable stresses below have been increased by 33 1/3% for the wind load condition. ⁽¹⁾
Legs: Compression - (Stress varies according to slenderness ration) ⁽²⁾ Bearing 126,000 PSI ⁽³⁾ Shear 24,000 PSI ⁽⁴⁾
Braces: Compression - (Stress varies according to slenderness ration) ⁽²⁾ Bearing 100,800 PSI ⁽³⁾ Shear 19,330 PSI ⁽⁴⁾
Bolts: Shear 29,300 PSI (Threads excluded from shear plane) ⁽⁵⁾
<u>Rivets:</u> Shear 18,120 PSI ⁽⁶⁾ Bearing 53,400 PSI ⁽⁶⁾
 ⁽¹⁾ PAR.3.1.2.1 of A.I.S.I. "Specification for the Design of Cold- Formed Steel Structural Members", 1968 Edition. ⁽²⁾ A.I.S.C. Manual of Steel Construction, 7th Edition, Pgs. 5.84 & 5.86. ⁽³⁾ PAR.4.5.3 of A.I.S.I. Specifications, 1968 Edition. ⁽⁴⁾ A.I.S.C. Manual of Steel Construction, 7th Edition, Pg. 5.64. ⁽⁵⁾ PAR 4.5.5 of A.I.S.I. Specifications, 1968 Edition. ⁽⁶⁾ Aluminum Construction Manual, "Specifications for Aluminum Structures", 1967 Edition.
<u>Tower Shape Factors:</u> <u>Individual Members (Legs, Braces, Transmission Lines)</u> Shape Factor: 1.00 for Flat Elements .67 for Cylindrical Elements
<u>Tower Section:</u> Shape Factor: 1.50 Times the projected area of individual members in one face.

DWG. No. A-750005

	Mod	el BX	Towe	er Sect	ion Pr	operti	es							
*					Sectio	n Prop	erties o	f Vertie	cal Elen	nents				
	Sect.	t in.	b in.	d in.	k in.	1 in.	ш.	n in.	Area ₁ in. ¹	ם. <mark>ב</mark> ן	Ix in.4	T _x in.	Iy in.	Ty in.
	BX-1	.048	1.1742	2.0984	.7500	1.0134	.1934	.1999	.1637	.6890	.0236	.380	.0746	.675
	BX-2	.048	1.1887	2.2145	.8286	1.0198	.2114	.1999	.1698	.7052	.0256	.388	.0862	.712
	BX-3	.060	1.2151	2.3544	.9210	1.0298	.2330	.2068	.2228	.7233	.0346	.394	.1260	.752
	BX-4	.085	1.2596	2.5441	1.0422	1.0476	.2623	.2212	.3296	.7511	.0548	.408	.2156	.809
	BX-5	.1008	1.3058	2.7661	1.1818	1.0704	.2967	.2305	.4151	.7863	.0742	.423	.3172	.874
	BX-6	.1008	1.3428	2.9881	1.3216	1.0932	.3311	.2305	.4407	.8160	.0838	.436	.3926	.944
	BX-7	.1158	1.3946	3.2399	1.4784	1.1206	.3700	.2391	.5384	.8522	.1106	.453	.5594	1.019
	BX-8	.1158	1.5780	3.4916	1.6354	1.1480	.4089	.3794	.6043	.9769	.1540	.505	.7810	1.137
7]



			oad, S.	Shear	348	348	348	500	890	890	890	890
			Allow.lt LB\$	BRG.	400	400	400	598	1000	1000	1000	1000
	oads at	IIICCHOIIS	са . ²	Shear	.0192	.0192	.0192	.0276	.0491	.0491	.0491	.0491
	owable Lo	gonal con	Ar In	BRG.	.0075	.0075	.0075	.0112	.0187	.0187	.0187	.0187
	ΠΥ	5 I U	Thick. of	Brace, in.	.048	.048	.048	.060	.075	.075	.075	.075
fodel BX Tower Design Data			Rivet	Dia., in.	5/32	5/32	5/32	3/16	1/4	1/4	1/4	1/4
	ls for	JICCS	Allowable Tensile	Leg opince Capacity LBS.	5630	5810	7320	10,910	13,870	14,880	18,340	20,910
	wable load	тсат тед ој	Thick.	ur Leg, in.	.048	.048	090.	.085	.1008	.1008	.1158	.1158
	Allo	V CTI	olice olts	Dia.	3/8	3/8	9/16	9/16	9/16	9/16	9/16	9/16
			Sf	No.	2	2	2	2	2	2	3	3
	: Sect.,	ure of	asu vo	96.0	101.1	107.7	115.5	139.5	150.0	161.7	179.7	
	oad Per LBS.	nd Press	15 DOF	101 01	72.0	75.8	80.8	86.6	104.6	112.5	121.3	134.8
	Wind I	At Wir	asa ot	10 F 3F	48.0	50.6	53.9	57.8	6.69	75.0	80.9	89.9
		als	Total Exposed	Area Ft. ²	4.800	5.055	5.385	5.775	6.975	7.500	8.085	8.985
4		Tot	Total Exposed	(1 Face) (1 Face) FT. ²	3.20	3.37	3.59	2.85	4.65	5.00	5.39	2.99
		s	Exposed Area	(1 Leg) FT. ²	.90	66.	1.09	1.49	1.83	2.02	2.21	2.45
	reas	Diagonals	Total Exposed	(1 Face) in.	173.4	190.5	209.2	229.0	251.6	276.6	303.8	335.6
	ected A:		Width	.ü	.75	.75	.75	.75	1.05	1.05	1.05	1.05
	$\Pr(0)$	al Legs	Exposed Area	(1 Leg) FT. ²	2.30	2.38	2.50	2.66	2.82	2.98	3.18	3.54
			Exposed Area	(1 Leg) FT. ²	1.15	1.19	1.25	1.33	1.41	1.49	1.59	1.77
		Vertic	Length,		96	96	96	96	96	96	96	96
			Exposed Width	(1Leg) in.	1.73	1.79	1.87	1.99	2.12	2.24	2.39	2.65
			BX1	BX2	BX3	BX4	BX5	BX6	BX7	BX8		

		Allowable Brace Load LBS.	1170	1120	1060	1200	2310	2180	2020	1850	
	s	Gross- Sect Area in. ²	.054	.054	.054	.0675	.1125	.1125	.1125	.1125	
	d Brace	Fa PSI	21,660	20,720	19,560	17,810	20,490	19,410	17,990	16,440	0
	Diagona	F'a PSI	16,250	15,540	14,670	13,360	15,370	14,560	13,490	12,330	o=1/2]
ls	1	$\frac{L^{2}}{T_{y}}$	71.7	78.4	86.0	96.9	79.9	87.8	95.9	105.0	*L'(
ssive Load		To in.	.107	.107	.107	.104	.139	.139	.139	.139	
		Lo in.	15.34	16.78	18.41	20.16	22.22	24.41	26.66	29.19	
e Compre		Allowable Leg Load, LBS.	5300	5520	7260	10,780	13,640	14,540	17,840	20,250	
lowabl		Gross- Sect Area (1 Leg) in. ²	.1637	.1698	.2228	.3296	.4151	.4407	.5384	.6043	
AI	al Legs	Fa PSI	32,400	32,500	32,570	32,710	32,870	32,990	33,130	33,510	
	Vertic	F'a PSI	24,300	24,380	24,430	24,540	24,650	24,740	24,850	25,130	
		$\frac{Lv}{Ty}$	32.9	32.2	31.7	30.6	29.6	28.7	27.6	24.8	
		Ty in.	.380	.388	.394	.408	.423	.436	.453	.505	
		Lv in.	$12 \frac{1}{2}$	$12^{1/_2}$	$12^{1/_2}$	$12^{1/_2}$	$12^{1/_2}$	$12^{1/_2}$	$12^{1/_2}$	$12^{1/_2}$	
	Sect		BX1	BX2	BX3	BX4	BX5	BX6	BX7	BX8	

