



EAVE STRUT SECTION PROPERTIES

EAVE STRUT SECTION PHYSICAL PROPERTIES						
SIZE	D (IN)	B (IN)	L (IN)	T (IN)	WGT (LB/FT)	A (IN ²)
ES 1:12	8.5	2.625/8.5	0.940	0.058	4.733	1.392
ES 4:12	8.5	2.625/8.5	0.940	0.058	4.733	1.392

EAVE STRUT SECTION FULL PROPERTIES							
SIZE	I _x (IN ⁴)	r _x (IN)	I _y (IN ⁴)	r _y (IN)	J (IN ⁴)	C _w (IN ⁶)	r _o (IN)
ES 1:12	12.836	3.081	13.541	3.164	0.001517	158.317	8.856
ES 4:12	12.579	3.023	11.705	2.916	0.001543	98.303	8.455

EAVE STRUT SECTION EFFECTIVE PROPERTIES								
SIZE	I _x (IN ⁴)	S _{xc} (IN ³)	S _{xt} (IN ³)	M _n (K IN)	M _a (K IN)	V _a (KIPS)	DEFL. I _x (IN ⁴)	A _e (IN ²)
ES 1:12 TOP	10.899	1.791	4.570	98.505	59.103	2.050	12.551	0.640
BOTTOM	10.210	2.669	2.198	120.890	72.534	2.050	10.538	0.640
ES 4:12 TOP	9.769	1.690	4.281	92.950	55.770	2.069	11.181	0.641
BOTTOM	9.204	2.504	2.097	115.335	69.201	2.069	9.520	0.641

NOTES:

- SECTION PROPERTIES ARE CALCULATED IN ACCORDANCE WITH THE 1996 AISI SPECIFICATION AND THE 1999 SUPPLEMENT FOR THE DESIGN OF COLD FORMED STEEL MEMBERS.
- BENDING ALLOWABLES SHOWN MAY BE UTILIZED FOR MEMBERS HAVING THE COMPRESSION FLANGE CONTINUOUSLY FASTENED TO DECK OR SHEATHING.