

FS-100 • 3-1/4" CHANNEL • 12 Gauge

520110	N PROP	ERTIE	S		X-X	X AXIS				Y -Y	Y AXI	S
CHNL	WT/FT	ARE		Ix		Sx	R	łx	Iy		Sy	Ry
P/N	LBS.	SQ.	IN.	in ⁴		in ³	i	n	in ⁴		in ³	in
FS-100	3.04	.89	94	1.089		.624	1.1	04	.432	1	.532	.695
FS-101	6.08	1.78	38	6.222		.914		865	.863		1.063	.695
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HANNEL	FINISH	• HO) • PRE-(ED GALV) • GRE		ÝU		¥	_
S-100 HANNEL TANDAR	FINISH	• PL/ • HO	DT-DIPP	ED GALV	ANIZED	ZED (PG (HD) • Å) • GRE ALUMINI	UM (AL)			¥	-
TANDAR CHNL	FINISH	• PL • HO FH: 2	0T-DIPP 20 FT. 4 A	ED GALV	ANIZED	ZED (PG (HD) • A BEAM) • GRE	um (AL)	• Span]	ín Inches		-
CHNL P/N	. FINISH: D LENG	• PL • HO FH: 2	0 T-DIPP 20 FT. • A 30"	ED GALV • 10 FT. • 10 KT. • 10 KT.	ANIZED ABLE 42"	ZED (PG (HD) • A BEAM 48"	• GRE	UM (AL) DS	• Span] 84"	96"	108"	120"
TANDAR CHNL	. FINISH: D LENG	• PL • HO FH: 2	0T-DIPP 20 FT. 4 A	ED GALV	ANIZED	ZED (PG (HD) • A BEAM) • GRE	UM (AL) DS	• Span]	96"	108"	
CHNL P/N	Stress 1/240 Stress	• PL/ • HO FH: 2 5,200 *** 5,020*	20 FT. 4 20 FT. 4 30" 4,160 *** 5,020*	ED GALV. 10 FT. LLOW. 36" 3,470 *** 5,020*	ANIZED ABLE 42" 2,970 *** 5,020*	ZED (PG (HD) • A BEAM 48" 2,600 *** 5,020*	• GRE LUMIN 60" 2,080 *** 5,020*	UM (AL) DS 72" 1,730 *** 5,020*	Span 1 84" 1,490 1,480 4,560	96" 1,300 1,130 3,990	108" 1,160 900 3,545	1,040 730 3,190
TANDAR CHNL P/N FS-100	FINISH: D LENG Stress 1/240	• PL • HO FH: 2 24" 5,200 ***	20 FT. 4 30" 4,160 ***	ED GALV. 10 FT. LLOW. 36" 3,470 ***	ANIZED ABLE 42" 2,970 ***	ZED (PG (HD) • A BEAM 48" 2,600 ***	• GRE LUMIN 60" 2,080 ***	UM (AL)	• Span 1 84" 1,490 1,480	96" 1,300 1,130	108" 1,160 900	1,040 730
TANDAR CHNL P/N FS-100	Stress 1/240 Stress	• PL4 • HO FH: 2 24" 5,200 *** 5,020* *** 1. TOTAL S 2. Upper line	20 FT. 4 20 FT. 4 30" 4,160 *** 5,020* *** TATIC LOAN	ED GALV. 10 FT. 10 FT. 36" 3,470 *** 5,020* *** D in LBS. JM ALLOWAB	ANIZED ABLE 42" 2,970 **** 5,020* ****	ZED (PG (HD) • Å BEAM 48" 2,600 *** 5,020* ***	• GRE LUMIN 60" 2,080 *** 5,020* ***	UM (AL) DS 72" 1,730 **** 5,020* **** SI Bending SI	Span 1 84" 1,490 1,480 4,560 ***	96" 1,300 1,130 3,990 *** e X-Axis bas	108" 1,160 900 3,545 ***	1,040 730 3,190 ***
TANDAR CHNL P/N FS-100	Stress 1/240 Stress	 PL: PL: HO TH: 2 24" 5,200 *** 5,020* *** 1. TOTAL S 2. Upper lim: 3. Lower lim: 4. Multiply	20 FT. 4 20 FT. 4 30" 4,160 *** 5,020* *** TATIC LOAL e is MAXIMI e is MAXIMI e is MAXIMI	ED GALV. 10 FT. LLOW. 36" 3,470 *** 5,020* *** D in LBS. JM ALLOWAB CALUNIFORM er line by 0.5 tc	ANIZED ABLE 42" 2,970 *** 5,020* **** LE UNIFORM LOAD which	ZED (PG (HD) • A BEAM 48" 2,600 *** 5,020* ****	• GRE LUMINI 60" 2,080 *** 5,020* ***	UM (AL) DS 72" 1,730 *** 5,020* *** SI Bending Si '240th of the	Span 1 84" 1,490 1,480 4,560 *** tress about th SPAN, (i.e.;	96" 1,300 1,130 3,990 *** e X-Axis bas 1/2" Def. fo	108" 1,160 900 3,545 *** ed on SIMPI r 120" Span	1,040 730 3,190 ***
TANDAR CHNL P/N FS-100	Stress 1/240 Stress	 PL4 HO FH: 2 24" 5,200 *** 5,020* *** 1. TOTAL S 2. Upper ling 3. Lower ling 4. Multiply v 5. * Load ling 6. For punch 	A 30" 4,160 *** 5,020* *** TATIC LOAN e shows TOT alues in uppu- ited by spot	ED GALVA 10 FT. LLOWA 36" 3,470 *** 5,020* *** D in LBS. JM ALLOWAB IAL UNIFORM er line by 0.5 tc weld shear. reduce weld lin	ANIZED ABLE 42" 2,970 *** 5,020* *** LE UNIFORM LOAD which obtain ALLO	ZED (PG (HD) • Å BEAM 48" 2,600 *** 5,020* *** ***	• GRE LUMIN 60" 2,080 *** 5,020* *** ng 25,000 P: ffection of 1/ TER CONCE	UM (AL) DS 72" 1,730 **** 5,020* **** SI Bending SI /240th of the SNTRATED L	Span 1 84" 1,490 1,480 4,560 *** tress about th SPAN, (i.e.;	96" 1,300 1,130 3,990 *** e X-Axis bas 1/2" Def. fo	108" 1,160 900 3,545 *** ed on SIMPI r 120" Span	1,040 730 3,190 ***
TANDAR CHNL P/N FS-100	Stress 1/240 Stress	 PL4 HO FH: 2 24" 5,200 *** 5,020* *** 1. TOTAL S 2. Upper ling 3. Lower ling 4. Multiply v 5. * Load ling 6. For punch 	A 30" 4,160 *** 5,020* *** TATIC LOAN e shows TOT alues in uppu- ited by spot	ED GALVA 10 FT. LLOWA 36" 3,470 *** 5,020* *** D in LBS. JM ALLOWAB FAL UNIFORM er line by 0.5 ttc weld shear.	ANIZED ABLE 42" 2,970 *** 5,020* *** LE UNIFORM LOAD which obtain ALLO	ZED (PG (HD) • Å BEAM 48" 2,600 *** 5,020* *** ***	• GRE LUMIN 60" 2,080 *** 5,020* *** ng 25,000 P: ffection of 1/ TER CONCE	UM (AL) DS 72" 1,730 **** 5,020* **** SI Bending SI /240th of the SNTRATED L	Span 1 84" 1,490 1,480 4,560 *** tress about th SPAN, (i.e.;	96" 1,300 1,130 3,990 *** e X-Axis bas 1/2" Def. fo	108" 1,160 900 3,545 *** ed on SIMPI r 120" Span	1,040 730 3,190 ***
TANDAR CHNL P/N FS-100	Stress 1/240 Stress	 PL4 HO FH: 2 24" 5,200 *** 5,200* *** 5,020* *** 1. TOTAL S 2. Upper lin 3. Lower lint 4. Multiply v 5. Load lint 6. For punct 7. *** Load c 	A 30" 4,160 **** 5,020* **** TATIC LOAN e is MAXIMU e is MAXIMU e is MAXIMU e of the sin uppo- alues in uppo- alues in uppo- alues the sin uppo- alues on the sin uppo- alues on the sin uppo- alues on the sin uppo- tied channel, ontrolled by	ED GALV. 10 FT. 10 FT. 36" 3,470 *** 5,020* *** 5,020* UniLS. JM ALLOWAB TAL UNIFORM er line by 0.5 tc weld shear. reduce weld lin 25,000 PSI de	ANIZED ABLE 42" 2,970 *** 5,020* *** LE UNIFORM LOAD which obtain ALLO bited loads by sign stress.	ZED (PG (HD) • A BEAM 48" 2,600 *** 5,020* **** 4 LOAD creating produces a de DWABLE CEN 0.75 due to 4	• GRE LUMINI 60" 2,080 *** 5,020* **** ng 25,000 P: effection of 1/ TER CONCE	UM (AL) DS 72" 1,730 *** 5,020* *** SI Bending SI /240th of the NTRATED L g.	Span 1 84" 1,490 1,480 4,560 **** tress about th SPAN, (i.e.; OAD at 25,0	96" 1,300 1,130 3,990 *** e X-Axis bas 1/2" Def. fo 000 PSI Stres	108" 1,160 900 3,545 *** ed on SIMPI or 120" Span ss. Deflection	1,040 730 3,190 ***
TANDAR CHNL P/N FS-100	Stress 1/240 Stress	 PL4 HO FH: 2 24" 5,200 *** 5,200* *** 5,020* *** 1. TOTAL S 2. Upper lin 3. Lower lint 4. Multiply v 5. Load lint 6. For punct 7. *** Load c 	A 30" 4,160 **** 5,020* **** TATIC LOAN e is MAXIMU e is MAXIMU e is MAXIMU e of the sin uppo- alues in uppo- alues in uppo- alues the sin uppo- alues on the sin uppo- alues on the sin uppo- alues on the sin uppo- tied channel, ontrolled by	ED GALVA 10 FT. LLOWA 36" 3,470 *** 5,020* *** D in LBS. JM ALLOWAB IAL UNIFORM er line by 0.5 tc weld shear. reduce weld lin	ANIZED ABLE 42" 2,970 *** 5,020* *** LE UNIFORM LOAD which obtain ALLO bited loads by sign stress.	ZED (PG (HD) • A BEAM 48" 2,600 *** 5,020* **** 4 LOAD creating produces a de DWABLE CEN 0.75 due to 4	• GRE LUMINI 60" 2,080 *** 5,020* **** ng 25,000 P: effection of 1/ TER CONCE	UM (AL) DS 72" 1,730 **** 5,020* **** SI Bending SI /240th of the SNTRATED L	Span 1 84" 1,490 1,480 4,560 **** tress about th SPAN, (i.e.; OAD at 25,0	96" 1,300 1,130 3,990 *** e X-Axis bas 1/2" Def. fo 000 PSI Stres	108" 1,160 900 3,545 *** ed on SIMPI or 120" Span ss. Deflection	1,040 730 3,190 ***
TANDAR TANDAR CHNL P/N FS-100 FS-101	Stress 1/240 Stress	 PL4 HO FH: 2 24" 5,200 *** 5,200* *** 5,020* *** 1. TOTAL S 2. Upper lin 3. Lower lint 4. Multiply v 5. Load lint 6. For punct 7. *** Load c 	A 30" 4,160 **** 5,020* **** TATIC LOAN e is MAXIMU e is MAXIMU e is MAXIMU e of the sin uppo- alues in uppo- alues in uppo- alues the sin uppo- alues on the sin uppo- alues on the sin uppo- alues on the sin uppo- tied channel, ontrolled by	ED GALV. 10 FT. 10 FT. 36" 3,470 *** 5,020* *** 5,020* UniLS. JM ALLOWAB TAL UNIFORM er line by 0.5 tc weld shear. reduce weld lin 25,000 PSI de	ANIZED ABLE 42" 2,970 *** 5,020* *** LE UNIFORM LOAD which obtain ALLO bited loads by sign stress.	ZED (PG (HD) • A BEAM 48" 2,600 *** 5,020* **** 4 LOAD creating produces a de DWABLE CEN 0.75 due to 4	• GRE LUMINI 60" 2,080 *** 5,020* **** ng 25,000 P: effection of 1/ TER CONCE	UM (AL) DS 72" 1,730 *** 5,020* *** SI Bending SI /240th of the NTRATED L g.	Span 1 84" 1,490 1,480 4,560 **** tress about th SPAN, (i.e.; OAD at 25,0	96" 1,300 1,130 3,990 *** e X-Axis bas 1/2" Def. fo 000 PSI Stres	108" 1,160 900 3,545 *** ed on SIMPI or 120" Span ss. Deflection	1,040 730 3,190 ***
HANNEL TANDAR CHNL P/N FS-100 FS-101	Stress 1/240 Stress	• PL4 • HO FH: 2 24" 5,200 *** 5,200 *** 5,200 *** 5,200 *** 5,200 *** 1. TOTAL S 2. Upper lin 3. Lower lin 4. Multiply v 5. * Load lin 6. For punch 7. *** Load c ALLO 24"	A 30" 4,160 **** 5,020* **** TATIC LOAA e is MAXIMU e is MAXIMU e is MAXIMU e of the standard of the standard manual standard of the standard water of the standard of the standard water of the standard of the standard water of the standard of the standard of the standard of the standard water of the standard of the st	ED GALVA 10 FT. LLOWA 36" 3,470 *** 5,020* *** D in LBS. JM ALLOWAB FAL UNIFORM er line by 0.5 to weld shear. reduce weld lin 25,000 PSI de	ANIZED ABLE 42" 2,970 *** 5,020* *** LE UNIFORM LOAD which obtain ALLO nited loads by sign stress.	ZED (PG (HD) • A BEAM 48" 2,600 *** 5,020* *** 4 LOAD creati produces a d DWABLE CEN 0.75 due to 4 LOAD	• GRE LUMINI 60" 2,080 **** 5,020* **** 5,020* **** 15,020* **** 17TER CONCE " weld spacing	UM (AL) DS 72" 1,730 *** 5,020* *** SI Bending SI (240th of the ENTRATED L g. Unsuppo	Span 1 84" 1,490 1,480 4,560 *** tress about th SPAN, (i.e.; OAD at 25,0	96" 1,300 1,130 3,990 *** e X-Axis bas 1/2" Def. fo 000 PSI Stress aght of C	108" 1,160 900 3,545 *** ed on SIMPI rr 120" Span ss. Deflection	1,040 730 3,190 *** by 0.8.
TANDAR TANDAR CHNL P/N FS-100 FS-101	Stress 1/240 Stress	• PL4 • HO FH: 2 24" 5,200 *** 5,200 *** 5,200 *** 5,200 *** 5,200 *** 1. TOTAL S 2. Upper lin 3. Lower lin 4. Multiply v 5. * Load lin 6. For punch 7. *** Load c ALLO 24"	A 30" 4,160 **** 5,020* **** TATIC LOAN e is MAXIMI e shows TOT alues in upper lited by spot med channel, ontrolled by WABI 30" 11,590	ED GALVA 10 FT. LLOWA 36" 3,470 *** 5,020* *** D in LBS. JM ALLOWAB FAL UNIFORM er line by 0.5 tc MALOWAB CALONARY CALONAR	ANIZED ABLE 42" 2,970 *** 5,020* *** LE UNIFORM LOAD which obtain ALLO bited loads by sign stress.	ZED (PG (HD) • A BEAM 48" 2,600 *** 5,020* 5,020* *** 4 LOAD creati 1 produces a de DWABLE CEN 0.75 due to 4 LOAD 0.75 due to 4) • GRE LUMINI 60" 2,080 *** 5,020* *** 5,020* *** 10 ft ft ft ft ft ft ft ft ft ft ft ft ft f	UM (AL) DS 72" 1,730 **** 5,020* **** SI Bending SI /240th of the NTRATED L g. Unsupport 72" 3,520	• Span 1 84" 1,490 1,480 4,560 *** tress about th SPAN, (i.e.; OAD at 25,0 orted Hei 84"	96" 1,300 1,130 3,990 *** e X-Axis bas 1/2" Def. fo 000 PSI Stres ight of C 96" 2,385	108" 1,160 900 3,545 *** ed on SIMPI or 120" Span ss. Deflection Solumn in 108" 2,070	1,040 730 3,190 *** by 0.8.
TANDAR CHNL P/N FS-100 FS-101	Stress 1/240 Stress	• PL4 • HO FH: 2 24" 5,200 *** 5,200 *** 5,200* *** 5,200* *** 5,200* *** 5,200 *** 5,200 *** 5,200 *** 5,200 *** 5,200 *** 5,200 *** 5,200 *** 5,200 *** 5,200 *** 5,200 *** 5,200 *** 5,200 *** 5,200 *** 5,200 *** *** 5,020* *** 5,020* *** 5,020* *** 5,020* *** 5,020* *** 5,020* *** 5,020* *** 5,020* *** 5,020* *** 5,020* *** 5,020* *** 5,020* *** 5,020* *** 5,020* *** 5,020* *** 5,020* 5,00* 5,00* 5,00* 5,000* 5,00* 5,00* 5,000* 5,00* 5,00* 5,00* 5,00*	A 30" 4,160 **** 5,020* **** TATIC LOAN e is MAXIMI e shows TOT alues in uppu- ited channel, ontrolled by WABI 30" 11,590 32,700	ED GALV. 10 FT. 10 FT. LLOW. 36" 3,470 *** 5,020* *** D in LBS. JM ALLOWAB FAL UNIFORM er line by 0.5 tt CE COL 36" 9,805	ANIZED ABLE 42" 2,970 *** 5,020* *** LE UNIFORM LOAD which obtain ALLO hited loads by sign stress. UMNN 42" 8,140 31,300	ZED (PG (HD) • A BEAM 48" 2,600 *** 5,020* *** 4 LOAD creati produces a d DWABLE CEN 0.75 due to 4 LOAD 48" 6,655 30,160	• GRE LUMINI 60" 2,080 *** 5,020* *** 5,020* *** *** 5,020* *** *** 5,020* *** 5,020* *** *** 5,020* *** *** 5,020* *** *** 5,020* *** *** 5,020* *** *** 5,020* *** *** 5,020* *** *** 5,020* *** *** 5,020* *** *** 5,020* *** *** 5,020* *** *** 5,020* *** *** 5,020* *** *** 5,020* *** *** 5,020* *** *** 5,020* *** *** 5,020* *** *** 5,020* *** *** ** 5,020* *** ** * * * * * * * *	UM (AL) DS 72" 1,730 **** 5,020* **** SI Bending SI /240th of the NTRATED L g. Unsupport 72" 3,520	Span Span <th< td=""><td>96" 1,300 1,130 3,990 **** e X-Axis bas 1/2" Def. fo 000 PSI Stress ight of C 96" 2,385 18,730</td><td>108" 1,160 900 3,545 **** ed on SIMPI or 120" Span ss. Deflection Column in 108" 2,070 15,820</td><td>1,040 730 3,190 *** by 0.8. h Inches 120" 1,830 13,070</td></th<>	96" 1,300 1,130 3,990 **** e X-Axis bas 1/2" Def. fo 000 PSI Stress ight of C 96" 2,385 18,730	108" 1,160 900 3,545 **** ed on SIMPI or 120" Span ss. Deflection Column in 108" 2,070 15,820	1,040 730 3,190 *** by 0.8. h Inches 120" 1,830 13,070