





AN	CHOR SCHEDULES: "	EE SHEET 6	FOR ANCHO	R NOTES)														1
<del>.</del>				<u>Spa</u> ns	Uр То	<u>4'-0''</u>		3"		DGE D Up To	ISTAN 8'-0"	CE		<u>Spa</u> ns	Uр То	<u>12'-</u> 0''	-	
HOST STRUCT.	ANCHOR	LOAD (psf)	C1	C2	NN TY C3	PE C4	C5	C1	CC C2	ONN TY	PE C4	C5	C1		ONN TY		-   C5	
1 1 0	1/4" ITW C.S. A.T.T. TAPCON	45		16.0"	16.0"	16.0"	16.0"	16.0"		16.0''	16.0"	16.0"	16.0"	16.0"	16.0"	10.5"	15.2"	HOST
	WITH 1-3/4" EMBED. (3000 psi MIN. CONCRETE)	55 66	16.0" 16.0"		16.0'' 16.0''	16.0"	16.0" 16.0"		16.0"	16.0'' 16.0''		16.0" 15.9"	16.0"	13.2'' 10.2''	16.0'' 16.0''	8.5" 7.0"	10.4"	
		80		16.0"	16.0"				13.8"	16.0"	8.8"	11.0"	13.8"	7.9"	13.6"	5.7"	5.8"	HOLLOW
		100 150	16.0" 16.0"		16.0'' 16.0''	14.7" 9.4"	16.0"		10.1'' 6.0''	16.0'' 9.9''	6.9" 4.5"	7.6'' 4.3''	11.0" 7.3''	6.0"	9.9"	4.5"	4.3"	
	5/16" ITW C.S. TAPCON XL	45			16.0"	9.4 16.0''	12.4" 16.0"		6.0 16.0''	9.9 16.0''		4.3 16.0"	7.3 16.0"	16.0''	5.8'' 16.0''	12.6"	16.0"	<sup>≚</sup> €
	WITH 1-3/4" EMBED. (2899	55	16.0"		16.0"	16.0"	16.0"		16.0"	16.0"		16.0"	16.0"	13.9"	16.0"	10.1"	10.9"	╷└──
	psi MIN. CONCRETE)	66 80	16.0" 16.0"		16.0'' 16.0''		16.0" 16.0"	16.0" 16.0"	16.0'' 14.5''	16.0'' 16.0''	12.9" 10.5"	16.0" 11.6"	16.0" 14.5"	10.7'' 8.3''	16.0'' 14.4''	8.3" 6.8"	8.1" 6.1"	
		100	16.0"		16.0''				10.6''	16.0''	8.2"	8.0"	11.6"	6.3"	10.4''	5.3''		HOST STRUCT
		150 45		16.0" 16.0"	16.0'' 16.0''	11.2" 16.0"		11.6" 16.0"	6.3" 16.0''	10.4'' 16.0''	5.3'' 15.4''	16.0"	7.7'' 16.0''	16.0''	6.1" 16.0"	9.8"	15.0"	Ŭ Ĥ
ļш	1/4" DEWALT PANELMATE (MALE OR FEMALE) WITH	55	16.0"	16.0"	16.0"	16.0"	16.0"		16.0"	16.0"	12.2"	16.0"	16.0"	13.0''	16.0"	7.9"	10.3"	
CONCRET	1-3/4" EMBED. (3350 psi MIN. CONCRETE)	66 80		16.0" 16.0"	16.0'' 16.0''	16.0" 16.0"			16.0'' 13.6''	16.0'' 16.0''	10.0" 8.1"	15.7" 10.8"	16.0" 13.6"	10.1'' 7.8''	16.0'' 13.5''	6.5" 5.3"	7.6''	
N		100		16.0"	16.0"			16.0"	9.9"	16.0"	6.4"	7.5"	10.9"	5.9"	9.7"	4.2"	4.2"	
0		150		15.0"	16.0"	8.7"		10.9"	5.9"	9.7"	4.2"	4.2"	7.3"		5.7"			
	1/4-20 ALL POINTS SOLID- SET WITH 7/8" EMBED.	45 55		16.0" 16.0"	16.0" 16.0"	16.0" 16.0"			16.0'' 16.0''	16.0'' 16.0''	16.0" 14.6"	16.0" 16.0"	16.0" 16.0"	16.0'' 13.0''	16.0'' 16.0''	11.6" 9.3"	15.0" 10.3"	
	(3000 psi MIN. CONCRETE)	66	16.0"	16.0"	16.0"	16.0"	16.0"		16.0"	16.0"	11.9"	15.7"	16.0"	10.1"	16.0"	7.6"	7.6''	BLOCK
		80		16.0" 16.0"	16.0'' 16.0''			16.0"	13.6'' 9.9''	16.0'' 16.0''	9.6" 7.6"	10.8" 7.5"	13.6" 10.9"	7.8'' 5.9''	13.5'' 9.7''	6.2" 4.9"	5.7'' 4.2''	BLO
		100 150		15.0"	16.0"	10.3"	12.2"	16.0" 10.9"	9.9 5.9"	9.7"	7.6 4.9''	4.2"	7.3"	3.7"	9.7 5.7"	4.9 3.2''	4.2	CONCRETE
	1/4" DEWALT ULTRACON	45	16.0"	16.0"	16.0''	16.0"	16.0"		16.0''	16.0''	15.3"	16.0"	16.0"	15.4''	16.0''	9.7"	13.1"	NC N
	WITH 1-3/4" MIN EMBED (2846 psi MIN CONCRETE)	55 66	16.0" 16.0"	16.0" 16.0"	16.0" 16.0"	16.0" 16.0"		16.0" 16.0"	16.0'' 16.0''	16.0'' 16.0''	12.2" 9.9"	16.0" 13.7"	16.0" 14.4"	11.4'' 8.8''	16.0'' 14.4''	7.8"	9.0" 6.7"	
					16.0"				11.9"	16.0"	8.0"	9.5"	11.9"	6.8"	11.8"	5.2"	5.0"	6
		80	16.0"	16.0"	10.0	10.0	16.0"	10.0				5.5	11.9				0.0	1 I I
		80 100 150	16.0"	16.0"	16.0" 16.0"	13.6" 8.6"	16.0" 16.0" 10.6"	14.3" 9.5"	8.7" 5.2"	14.3'' 8.5''	6.3" 4.1"	6.6'' 3.7''	9.5" 6.3"	5.2"	8.5" 5.0"	4.1"		Моттон
SST RUCT.		100 150	16.0" 16.0"	16.0" 13.1" Spans	16.0''	13.6" 8.6" 4'-0"	16.0"	14.3" 9.5"	8.7" 5.2" MIN. E Spans	14.3" 8.5"	6.3" 4.1" ISTAN	6.6'' 3.7''	9.5''	5.2"	8.5"	4.1" ////////////////////////////////////		НОГГ
HOST STRUCT.	ANCHOR	100 150 LOAD (psf)	16.0" 16.0" C1	16.0" 13.1" <u>Spans</u> CC	16.0'' 16.0'' Up Tc DNN TY C3	13.6" 8.6" 4'-0" PE C4	16.0" 10.6" C5	14.3" 9.5" 2" C1	8.7" 5.2" MIN. E Spans CC C2	14.3" 8.5" DGE D Up To DNN TY C3	6.3" 4.1" PISTAN 8'-0" PE C4	6.6'' 3.7'' CE C5	9.5" 6.3" C1	5.2" <u>Spans</u> CC C2	8.5" 5.0" Up To DNN TY C3	4.1" 12'-0" PE C4	  	HOH
HOST STRUCT.		100 150	16.0" 16.0" C1	16.0" 13.1" Spans CC C2 16.0"	16.0" 16.0" Up Tc DNN TY C3 16.0"	13.6" 8.6" 4'-0" PE C4 16.0"	16.0" 10.6" C5 16.0"	14.3" 9.5" 2" C1 16.0"	8.7" 5.2" MIN. E Spans CC C2 16.0"	14.3" 8.5" DGE D Up Tc DNN TY C3 16.0"	6.3" 4.1" PISTAN 8'-0" PE C4	6.6'' 3.7'' CE C5 16.0''	9.5" 6.3"	5.2" <u>Spans</u> CC C2 16.0"	8.5" 5.0" Up To DNN TY	4.1" <u>12'-0'</u> PE C4 9.2"		НОГГ
HOST STRUCT.	ANCHOR 1/4" ITW C.S. A.T.T. TAPCON WITH 1-3/4" EMBED. (3000 psi MIN. CONCRETE)	100 150 LOAD (psf) 45 55 66	16.0" 16.0" <u>C1</u> 16.0" 16.0" 16.0"	16.0" 13.1" Spans CC C2 16.0" 16.0" 16.0"	16.0" 16.0" Up Tc DNN TY C3 16.0" 16.0"	13.6" 8.6" PE C4 16.0" 16.0"	16.0" 10.6" C5 16.0" 16.0"	14.3" 9.5" 2" C1 16.0" 16.0"	8.7" 5.2" MIN. E Spans CC C2 16.0" 16.0" 16.0"	14.3" 8.5" DGE D DDF TC DNN TY C3 16.0" 16.0"	6.3" 4.1" ISTAN 8'-0" PE C4 14.5" 11.6" 9.5"	6.6" 3.7" CE C5 16.0" 15.4"	9.5" 6.3" C1 16.0" 16.0" 16.0"	5.2" <u>Spans</u> CC C2 16.0" 12.7" 9.9"	8.5" 5.0" Up To DNN TY C3 16.0" 16.0" 16.0"	4.1" <u>12'-0'</u> PE C4 9.2" 7.4" 6.1"	C5 14.7" 10.1" 7.5"	
HOST STRUCT.	ANCHOR 1/4" ITW C.S. A.T.T. TAPCON WITH 1-3/4" EMBED. (3000 psi MIN. CONCRETE)	100 150 LOAD (psf) 45 55 66 80	16.0" 16.0" C1 16.0" 16.0" 16.0"	16.0" 13.1" <u>Spans</u> CC C2 16.0" 16.0" 16.0" 16.0"	16.0" 16.0" Up Tc DNN TY C3 16.0" 16.0" 16.0"	13.6" 8.6" 9E C4 16.0" 16.0" 16.0"	16.0" 10.6" C5 16.0" 16.0" 16.0"	14.3" 9.5" 2" C1 16.0" 16.0" 16.0"	8.7" 5.2" MIN. E Spans CC C2 16.0" 16.0" 16.0" 13.3"	14.3" 8.5" DGE D S Up Tc DNN TY C3 16.0" 16.0" 16.0"	6.3" 4.1" ISTAN 8'-0" PE C4 14.5" 11.6" 9.5" 7.7"	6.6" 3.7" CE C5 16.0" 16.0" 15.4" 10.6"	9.5" 6.3" C1 16.0" 16.0" 16.0"	5.2" <u>Spans</u> CC C2 16.0" 12.7" 9.9" 7.7"	8.5" 5.0" Up To DNN TY C3 16.0" 16.0" 16.0" 13.2"	4.1" 12'-0" PE C4 9.2" 7.4"	C5 14.7" 10.1" 7.5" 5.6"	
HOST STRUCT.	ANCHOR 1/4" ITW C.S. A.T.T. TAPCON WITH 1-3/4" EMBED. (3000 psi MIN. CONCRETE)	100 150 LOAD (psf) 45 55 66 80 100 150	16.0" 16.0" C1 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	16.0" 13.1" Spans CC C2 16.0" 16.0" 16.0" 16.0" 16.0" 14.7"	16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	13.6" 8.6" PE C4 16.0" 16.0" 16.0" 16.0" 12.9" 8.2"	16.0" 10.6" C5 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	14.3" 9.5" 2" C1 16.0" 16.0" 16.0" 16.0" 16.0" 10.7"	8.7" 5.2" MIN. E <u>Spans</u> CC C2 16.0" 16.0" 13.3" 9.7" 5.8"	14.3" 8.5" DGE D Up Tc DNN TY C3 16.0" 16.0" 16.0" 16.0" 16.0" 9.5"	6.3" 4.1" DISTAN 8'-0" PE C4 14.5" 11.6" 9.5" 7.7" 6.1"	6.6" 3.7" CE C5 16.0" 15.4" 10.6" 7.4" 4.2"	9.5" 6.3" C1 16.0" 16.0" 13.3" 10.7" 7.1"	5.2" <u>Spans</u> <u>CC</u> 16.0" 12.7" 9.9" 7.7" 5.8"	8.5" 5.0" NN TY C3 16.0" 16.0" 13.2" 9.5" 5.6"	4.1" 12'-0' PE C4 9.2" 7.4" 6.1" 5.0"	C5 14.7" 10.1" 7.5" 5.6" 4.2"	HOST HOLL
HOST STRUCT.	ANCHOR 1/4" ITW C.S. A.T.T. TAPCON WITH 1-3/4" EMBED. (3000 psi MIN. CONCRETE) 5/16" ITW C.S. TAPCON XL	100 150 LOAD (psf) 45 55 66 80 100 150 45	16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	16.0" 13.1" Spans CC C2 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	13.6" 8.6" PE C4 16.0" 16.0" 16.0" 12.9" 8.2" 16.0"	16.0" 10.6" 10.6" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	14.3" 9.5" 2" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	8.7" 5.2" MIN. E <u>Spans</u> CC C2 16.0" 16.0" 13.3" 9.7" 5.8" 16.0"	14.3" 8.5" DGE D Up Tc DNN TY C3 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	6.3" 4.1" PISTAN 8'-0" PE C4 14.5" 11.6" 9.5" 7.7" 6.1" 16.0"	6.6" 3.7" CE 16.0" 16.0" 15.4" 10.6" 7.4" 4.2" 16.0"	9.5" 6.3" 6.3" 16.0" 16.0" 13.3" 10.7" 7.1" 16.0"	5.2" <u>Spans</u> <u>CC</u> 16.0" 12.7" 9.9" 7.7" 5.8" 16.0"	8.5" 5.0" Up To NN TY C3 16.0" 16.0" 13.2" 9.5" 5.6" 16.0"	4.1" <u>12'-0'</u> PE <u>C4</u> 9.2" 7.4" 6.1" 5.0" <u>11.5"</u>	C5 14.7" 10.1" 7.5" 5.6" 4.2" 15.1"	
HOST STRUCT.	ANCHOR 1/4" ITW C.S. A.T.T. TAPCON WITH 1-3/4" EMBED. (3000 psi MIN. CONCRETE)	100 150 LOAD (psf) 45 55 66 80 100 150	16.0" 16.0" C1 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	16.0" 13.1" Spans CC C2 16.0" 16.0" 16.0" 16.0" 14.7" 16.0" 16.0"	16.0" 16.0" 2000 TC 2000 TY C3 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	13.6" 8.6" PE C4 16.0" 16.0" 16.0" 12.9" 8.2" 16.0" 16.0"	16.0" 10.6" 10.6" 16.0" 16.0" 16.0" 16.0" 16.0" 11.9" 16.0" 16.0"	14.3" 9.5" 2" C1 16.0" 16.0" 16.0" 16.0" 16.0" 10.7"	8.7" 5.2" MIN. E Spans CC C2 16.0" 16.0" 13.3" 9.7" 5.8" 16.0" 16.0"	14.3" 8.5" DGE D S Up Tc DNN TY C3 16.0" 16.0" 16.0" 16.0" 9.5" 16.0" 16.0"	6.3" 4.1" PISTAN 8'-0" PE C4 14.5" 11.6" 9.5" 7.7" 6.1" 16.0" 14.5"	6.6" 3.7" CE C5 16.0" 15.4" 10.6" 7.4" 4.2"	9.5" 6.3" 16.0" 16.0" 16.0" 13.3" 10.7" 7.1" 16.0" 16.0"	5.2" <u>Spans</u> <u>CC</u> 16.0" 12.7" 9.9" 7.7" 5.8" <u>16.0"</u> 13.0"	8.5" 5.0" Up To NN TY C3 16.0" 16.0" 13.2" 9.5" 5.6" 16.0"	4.1" 12'-0' PE C4 9.2" 7.4" 6.1" 5.0"	C5 14.7" 10.1" 7.5" 5.6" 4.2"	
HOST STRUCT.	ANCHOR 1/4" ITW C.S. A.T.T. TAPCON WITH 1-3/4" EMBED. (3000 psi MIN. CONCRETE) 5/16" ITW C.S. TAPCON XL WITH 1-3/4" EMBED. (2899 psi MIN. CONCRETE)	100 150 LOAD (psf) 45 55 66 80 100 150 45 55 66 80	16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	16.0" 13.1" Spans CC C2 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	13.6" 8.6" PE C4 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	16.0" 10.6" 10.6" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	14.3" 9.5" 2" C1 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	8.7" 5.2" MIN. E Spans CC C2 16.0" 16.0" 16.0" 13.3" 9.7" 5.8" 16.0" 16.0" 16.0" 16.0"	14.3" 8.5" DGE D Up TC DNN TY C3 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	6.3" 4.1" DISTAN 8'-0" PE C4 14.5" 11.6" 9.5" 7.7" 6.1" 11.6" 14.5" 11.8" 9.6"	6.6" 3.7" CE C5 16.0" 16.0" 15.4" 10.6" 7.4" 4.2" 16.0" 16.0" 15.8" 10.9"	9.5" 6.3" 16.0" 16.0" 16.0" 13.3" 10.7" 7.1" 16.0" 16.0" 16.0" 13.7"	5.2" <u>Spans</u> CC C2 16.0" 12.7" 9.9" 7.7" 5.8" 16.0" 13.0" 10.1" 7.9"	8.5" 5.0" Up To DNN TY C3 16.0" 16.0" 13.2" 9.5" 5.6" 16.0" 16.0" 16.0" 16.0"	4.1" 12'-0" PE C4 9.2" 7.4" 6.1" 5.0" 11.5" 9.2"	C5 14.7" 10.1" 7.5" 5.6" 4.2" 15.1" 10.3" 7.6"	
HOST STRUCT.	ANCHOR 1/4" ITW C.S. A.T.T. TAPCON WITH 1-3/4" EMBED. (3000 psi MIN. CONCRETE) 5/16" ITW C.S. TAPCON XL WITH 1-3/4" EMBED. (2899	100 150 LOAD (psf) 45 55 66 80 100 150 45 55 66	16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	16.0" 13.1" Spans CC C2 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	16.0" 16.0" 16.0" C3 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	13.6" 8.6" PE C4 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	16.0" 10.6" 10.6" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	14.3" 9.5" 2" C1 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	8.7" 5.2" MIN. E Spans CC C2 16.0" 16.0" 13.3" 9.7" 5.8" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 10.0"	14.3" 8.5" DGE D SUP TC DNN TY C3 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	6.3" 4.1" PISTAN 8'-0" PE C4 14.5" 11.6" 9.5" 7.7" 6.1" 16.0" 14.5" 11.8" 9.6" 7.5"	6.6" 3.7" CE C5 16.0" 15.4" 10.6" 7.4" 4.2" 16.0" 15.8" 10.9" 7.5"	9.5" 6.3" 16.0" 16.0" 16.0" 13.3" 10.7" 7.1" 16.0" 16.0"	5.2" <u>Spans</u> CC C2 16.0" 12.7" 9.9" 7.7" 5.8" 16.0" 13.0" 10.1"	8.5" 5.0" Up To DNN TY C3 16.0" 16.0" 13.2" 9.5" 5.6" 16.0" 16.0" 16.0"	4.1" 12'-0" PE C4 9.2" 7.4" 6.1" 5.0" 11.5" 9.2" 7.6"	C5 14.7" 10.1" 7.5" 5.6" 4.2" 15.1" 10.3" 7.6"	
HOST STRUCT.	ANCHOR 1/4" ITW C.S. A.T.T. TAPCON WITH 1-3/4" EMBED. (3000 psi MIN. CONCRETE) 5/16" ITW C.S. TAPCON XL WITH 1-3/4" EMBED. (2899 psi MIN. CONCRETE) 1/4" DEWALT PANELMATE	100 150 LOAD (psf) 45 55 66 80 100 150 45 66 80 100 150 45	16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	16.0" 13.1" Spans CC 2 16.0" 16	16.0" 16.0" 16.0" C3 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	13.6" 8.6" 9E C4 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	16.0" 10.6" 10.6" 16.0" 16	14.3" 9.5" 2" C1 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	8.7" 5.2" MIN. E Spans CC C2 16.0" 16.0" 13.3" 9.7" 5.8" 16.0" 10.0" 16.0" 10.0	14.3" 8.5" DGE D ODF TC DNN TY C3 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	6.3" 4.1" PISTAN 8'-0" PE C4 14.5" 11.6" 9.5" 7.7" 6.1" 11.6" 14.5" 1.8" 9.6" 7.5" 1.6.0"	6.6" 3.7" CE C5 16.0" 15.4" 10.6" 7.4" 4.2" 16.0" 15.8" 10.9" 7.5" 10.9" 7.5" 16.0"	9.5" 6.3" 6.3" 16.0" 16.0" 16.0" 13.3" 10.7" 7.1" 16.0" 16.0" 13.7" 16.0" 10.9" 7.3"	5.2" <u>Spans</u> CC 2 16.0" 12.7" 9.9" 7.7" 5.8" 16.0" 13.0" 10.1" 7.9" 6.0" 16.0"	8.5" 5.0" Up To DNN TY C3 16.0" 16.0" 13.2" 9.5" 5.6" 16.0" 16.0" 16.0" 13.5" 9.8" 5.8" 16.0"	4.1" 12'-0' PE C4 9.2" 7.4" 6.1" 5.0" 111.5" 9.2" 7.6" 6.2" 10.8"	C5 14.7" 10.1" 7.5" 4.2" 15.1" 10.3" 7.6" 5.8" 10.3" 7.6"	HOST
	ANCHOR 1/4" ITW C.S. A.T.T. TAPCON WITH 1-3/4" EMBED. (3000 psi MIN. CONCRETE) 5/16" ITW C.S. TAPCON XL WITH 1-3/4" EMBED. (2899 psi MIN. CONCRETE) 1/4" DEWALT PANELMATE (MALE OR FEMALE) WITH	100 150 LOAD (psf) 45 55 66 80 100 150 45 55 66 80 100 150 45 55	16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	16.0" 13.1" Spans CC C2 16.0" 1	16.0" 16.0" 16.0" C3 16.0"	13.6" 8.6" 9.6" 9.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7	16.0" 10.6" 10.6" 16.0" 16	14.3" 9.5" 2" C1 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	8.7" 5.2" MIN. E Spans CC C2 16.0" 16.0" 16.0" 13.3" 9.7" 5.8" 16.0" 10.0" 16.0" 10.0	14.3" 8.5" DGE D DDF C DNN TY C3 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	6.3" 4.1" PISTAN 8'-0" PE C4 14.5" 11.6" 9.5" 7.7" 6.1" 14.5" 11.8" 9.6" 7.5" 16.0" 13.6"	6.6" 3.7" CE C5 16.0" 15.4" 10.6" 7.4" 4.2" 16.0" 15.8" 10.9" 7.5" 16.0" 15.8" 10.9" 16.0" 15.8" 10.9" 16.0" 10.6" 16.0" 16.0" 16.0" 10.6" 10.6" 10.0" 10.6" 10.0"	9.5" 6.3" 16.0" 16.0" 16.0" 13.3" 10.7" 7.1" 16.0" 16.0" 13.7" 16.0" 16.0" 16.0"	5.2" <u>Spans</u> CC 16.0" 12.7" 9.9" 7.7" 5.8" 16.0" 13.0" 10.1" 7.9" 6.0" 14.5"	8.5" 5.0" Up To DNN TY C3 16.0" 16.0" 13.2" 9.5" 5.6" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	4.1" 12'-0' PE C4 9.2" 7.4" 6.1" 5.0" 111.5" 9.2" 7.6" 6.2" 10.8" 8.7"	C5 14.7" 10.1" 7.5" 4.2" 15.1" 10.3" 7.6" 5.8" 10.3" 7.6" 5.8"	HOST
	ANCHOR 1/4" ITW C.S. A.T.T. TAPCON WITH 1-3/4" EMBED. (3000 psi MIN. CONCRETE) 5/16" ITW C.S. TAPCON XL WITH 1-3/4" EMBED. (2899 psi MIN. CONCRETE) 1/4" DEWALT PANELMATE (MALE OR FEMALE) WITH 2" EMBED. (3350 psi MIN. CONCRETE)	100 150 LOAD (psf) 45 55 66 80 100 150 45 66 80 100 150 45	16.0" 16	16.0" 13.1" Spans CC C2 16.0" 1	16.0" 16.0" 16.0" C3 16.0"	13.6" 8.6" 9.6" 9.6 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	16.0" 10.6" 10.6" 16.0" 16	14.3" 9.5" 2" C1 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	8.7" 5.2" MIN. E Spans CC C2 16.0" 16.0" 13.3" 9.7" 5.8" 16.0" 10.0" 16.0" 10.0	14.3" 8.5" DGE D ODF TC DNN TY C3 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	6.3" 4.1" PISTAN 8'-0" PE C4 14.5" 11.6" 9.5" 7.7" 6.1" 14.5" 11.8" 9.6" 7.5" 16.0" 13.6" 11.1" 9.0"	6.6" 3.7" CE C5 16.0" 15.4" 10.6" 7.4" 4.2" 16.0" 15.8" 10.9" 7.5" 16.0" 16.0" 15.8" 10.9" 16.0" 16.0" 15.4" 16.0" 10.6" 16.0" 10.6" 10.6" 10.6" 10.6" 10.6" 10.6" 10.0"	9.5" 6.3" 6.3" 16.0" 16.0" 16.0" 13.3" 7.1" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	5.2" <u>Spans</u> CC 2 16.0" 12.7" 9.9" 7.7" 5.8" 10.1" 7.9" 6.0" 10.1" 7.9" 6.0" 11.3" 8.7"	8.5" 5.0" Up To DNN TY C3 16.0" 16.0" 13.2" 9.5" 5.6" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	4.1" 12'-0' PE C4 9.2" 7.4" 6.1" 5.0" 111.5" 9.2" 7.6" 6.2" 10.8"	C5 14.7" 10.1" 7.5" 4.2" 15.1" 10.3" 7.6" 5.8" 10.3" 7.6" 5.8"	BLOCK HOST STRUCT
	ANCHOR 1/4" ITW C.S. A.T.T. TAPCON WITH 1-3/4" EMBED. (3000 psi MIN. CONCRETE) 5/16" ITW C.S. TAPCON XL WITH 1-3/4" EMBED. (2899 psi MIN. CONCRETE) 1/4" DEWALT PANELMATE (MALE OR FEMALE) WITH 2" EMBED. (3350 psi MIN. CONCRETE) *	100 150 LOAD (psf) 45 55 66 80 100 150 45 55 66 80 100 150 45 55 66 80 100	16.0" 16	16.0" 13.1" Spans CC C2 16.0" 1	16.0" 16.0" 16.0" C3 16.0"	13.6" 8.6" 9.6" 9.6 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	16.0" 10.6" 10.6" 16.0" 16	14.3" 9.5" 2" C1 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	8.7" 5.2" MIN. E Spans CC C2 16.0" 16.0" 16.0" 13.3" 9.7" 5.8" 16.0	14.3" 8.5" DGE D ODF TC DNN TY C3 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	6.3" 4.1" PISTAN 8'-0" PE C4 14.5" 11.6" 9.5" 7.7" 6.1" 14.5" 11.8" 9.6" 7.5" 16.0" 13.6" 11.1" 9.0" 7.1"	6.6" 3.7" CE C5 16.0" 15.4" 10.6" 15.4" 10.6" 15.8" 10.9" 7.5" 16.0	9.5" 6.3" 6.3" 16.0" 16.0" 16.0" 13.3" 7.1" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	5.2" <u>Spans</u> CC 2 16.0" 12.7" 9.9" 7.7" 5.8" 10.1" 7.9" 6.0" 11.3" 8.7" 6.6"	8.5" 5.0" Up To DNN TY C3 16.0" 16.0" 13.2" 9.5" 5.6" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	4.1" 12'-0' PE C4 9.2" 7.4" 6.1" 5.0" 11.5" 9.2" 7.6" 6.2" 10.8" 8.7" 7.2" 5.8" 4.6"	C5 14.7" 10.1" 7.5" 5.6" 4.2" 15.1" 10.3" 7.6" 5.8" 10.3" 7.6" 5.8"	BLOCK HOST STRUCT
	ANCHOR 1/4" ITW C.S. A.T.T. TAPCON WITH 1-3/4" EMBED. (3000 psi MIN. CONCRETE) 5/16" ITW C.S. TAPCON XL WITH 1-3/4" EMBED. (2899 psi MIN. CONCRETE) 1/4" DEWALT PANELMATE (MALE OR FEMALE) WITH 2" EMBED. (3350 psi MIN. CONCRETE) *	100 150 LOAD (psf) 45 55 66 80 100 150 45 55 66 80 100 150 45 55 66 80	16.0" 16	16.0" 13.1" Spans CC C2 16.0" 1	16.0" 16.0" 16.0" C3 16.0"	13.6" 8.6" 9.6" 9.6 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	16.0" 10.6" 10.6" 16.0" 16	14.3" 9.5" 2" C1 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	8.7" 5.2" MIN. E Spans CC C2 16.0" 16.0" 16.0" 13.3" 9.7" 5.8" 16.0	14.3" 8.5" DGE D DNN TY C3 16.0"	6.3" 4.1" PISTAN 8'-0" PE C4 14.5" 11.6" 9.5" 7.7" 6.1" 14.5" 11.8" 9.6" 7.5" 16.0" 13.6" 11.1" 9.0"	6.6" 3.7" CE C5 16.0" 15.4" 10.6" 7.4" 4.2" 16.0" 15.8" 10.9" 7.5" 16.0" 16.0" 15.8" 10.9" 16.0" 16.0" 15.4" 16.0" 10.6" 16.0" 10.6" 10.6" 10.6" 10.6" 10.6" 10.6" 10.0"	9.5" 6.3" 6.3" 16.0" 16.0" 16.0" 13.3" 7.1" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	5.2" <u>Spans</u> CC 2 16.0" 12.7" 9.9" 7.7" 5.8" 16.0" 13.0" 10.1" 7.9" 6.0" 11.3" 8.7" 6.6" 4.1"	8.5" 5.0" Up To DNN TY C3 16.0" 16.0" 13.2" 9.5" 5.6" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0"	4.1" 12'-0' PE C4 9.2" 7.4" 6.1" 5.0" 111.5" 9.2" 7.6" 6.2" 10.8" 8.7" 7.2" 5.8"	C5 14.7" 10.1" 7.5" 4.2" 15.1" 10.3" 7.6" 5.8" 10.3" 7.6" 5.8" 10.0" 11.5" 8.5" 6.4"	BLOCK HOST STRUCT
	ANCHOR 1/4" ITW C.S. A.T.T. TAPCON WITH 1-3/4" EMBED. (3000 psi MIN. CONCRETE) 5/16" ITW C.S. TAPCON XL WITH 1-3/4" EMBED. (2899 psi MIN. CONCRETE) 1/4" DEWALT PANELMATE (MALE OR FEMALE) WITH 2" EMBED. (3350 psi MIN. CONCRETE) * 1/4-20 ALL POINTS SOLID- SET WITH 7/8" EMBED.	100 150 LOAD (psf) 45 55 66 80 100 150 45 55 66 80 100 150 45 55 66 80 100 150 45 55 66 80 100 150 45 55 55	16.0" 16	16.0" 13.1" Spans CC C2 16.0" 1	16.0" 16	13.6" 8.6" 9E C4 16.0"	16.0" 10.6" 10.6" 16.0" 16	14.3" 9.5" 2" 2" 16.0"	8.7" 5.2" MIN. E Spans CC C2 16.0" 16.0" 13.3" 9.7" 5.8" 16.0	14.3" 8.5" DGE D Up Tc DNN TY C3 16.0"	6.3" 4.1" PISTAN 8'-0" PE C4 14.5" 11.6" 9.5" 7.7" 6.1" 14.5" 11.8" 9.6" 14.5" 11.8" 9.6" 13.6" 11.1" 9.0" 7.1" 4.6" 14.3"	6.6" 3.7" CE C5 16.0" 15.4" 10.6" 15.4" 10.6" 15.8" 10.9" 7.5" 16.0	9.5" 6.3" 6.3" 16.0" 16.0" 16.0" 13.3" 10.7" 7.1" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 15.2" 8.1"	5.2" <u>Spans</u> CC 2 16.0" 12.7" 9.9" 7.7" 5.8" 16.0" 13.0" 10.1" 7.9" 6.0" 11.3" 8.7" 6.6" 4.1" 13.9" 10.2"	8.5" 5.0" 5.0" NN TY C3 16.0" 16.0" 13.2" 9.5" 5.6" 16.0"	4.1" 12'-0' PE C4 9.2" 7.4" 6.1" 5.0" 11.5" 9.2" 7.6" 6.2" 10.8" 8.7" 7.2" 5.8" 4.6" 9.0" 7.2"	C5 14.7" 10.1" 7.5" 5.6" 4.2" 15.1" 10.3" 7.6" 5.8" 16.0" 11.5" 8.5" 6.4" 4.7" 11.8" 8.1"	CONCRETE BLOCK HOST
	ANCHOR 1/4" ITW C.S. A.T.T. TAPCON WITH 1-3/4" EMBED. (3000 psi MIN. CONCRETE) 5/16" ITW C.S. TAPCON XL WITH 1-3/4" EMBED. (2899 psi MIN. CONCRETE) 1/4" DEWALT PANELMATE (MALE OR FEMALE) WITH 2" EMBED. (3350 psi MIN. CONCRETE) * 1/4-20 ALL POINTS SOLID-	100 150 LOAD (psf) 45 55 66 80 100 150 45 55 66 80 100 150 45 55 66 80 100 150 45 55 66 80 100 150 45 55 66	16.0" 16	16.0" 13.1" Spans CC C2 16.0" 1	16.0" 16.0" 16.0" C3 16.0"	13.6" 8.6" 8.6" 9E C4 16.0"	16.0" 10.6" 10.6" 16.0" 16	14.3" 9.5" 2" 2" 16.0"	8.7" 5.2" MIN. E Spans CC 2 16.0" 16.0" 13.3" 9.7" 5.8" 16.0"	14.3" 8.5" DGE D Up TC DNN TY C3 16.0"	6.3" 4.1" PISTAN 8'-0" PE C4 14.5" 11.6" 9.5" 7.7" 6.1" 14.5" 11.8" 9.6" 14.5" 11.8" 9.6" 13.6" 11.1" 9.6" 13.6" 11.1" 9.0" 13.6" 11.3" 9.2"	6.6" 3.7" CE C5 16.0" 15.4" 10.6" 15.4" 10.6" 15.8" 10.9" 7.5" 16.0	9.5" 6.3" 6.3" 16.0" 16.0" 16.0" 13.3" 10.7" 7.1" 16.0" 17.1" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 17.1" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 17.1" 16.0" 17.1" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 17.1" 16.0"	5.2" <u>Spans</u> CC 2 16.0" 12.7" 9.9" 7.7" 5.8" 16.0" 13.0" 10.1" 7.9" 6.0" 11.3" 8.7" 6.6" 4.1" 13.9" 10.2" 7.9"	8.5" 5.0" 5.0" NN TY C3 16.0" 16.0" 13.2" 9.5" 5.6" 16.0"	4.1" 12'-0' PE C4 9.2" 7.4" 6.1" 5.0" 11.5" 9.2" 7.6" 6.2" 10.8" 8.7" 7.2" 5.8" 4.6" 9.0" 7.2" 5.9"	C5 14.7" 10.1" 7.5" 5.6" 4.2" 15.1" 10.3" 7.6" 5.8" 16.0" 11.5" 8.5" 6.4" 4.7" 11.8" 8.1" 6.0"	CONCRETE BLOCK HOST
	ANCHOR 1/4" ITW C.S. A.T.T. TAPCON WITH 1-3/4" EMBED. (3000 psi MIN. CONCRETE) 5/16" ITW C.S. TAPCON XL WITH 1-3/4" EMBED. (2899 psi MIN. CONCRETE) 1/4" DEWALT PANELMATE (MALE OR FEMALE) WITH 2" EMBED. (3350 psi MIN. CONCRETE) * 1/4-20 ALL POINTS SOLID- SET WITH 7/8" EMBED.	100 150 LOAD (psf) 45 55 66 80 100 150 45 55 66 80 100 150 45 55 66 80 100 150 45 55 66 80 100 150 45 55 55	16.0" 16	16.0" 13.1" Spans CC C2 16.0" 1	16.0" 16	13.6" 8.6" 9E C4 16.0"	16.0" 10.6" 10.6" 16.0" 16	14.3" 9.5" 2" 2" 16.0" 17.0" 1	8.7" 5.2" MIN. E Spans CC 16.0" 16.0" 16.0" 13.3" 9.7" 5.8" 16.0" 1	14.3" 8.5" DGE D Up Tc DNN TY C3 16.0"	6.3" 4.1" PISTAN 8'-0" PE C4 14.5" 11.6" 9.5" 7.7" 6.1" 14.5" 11.8" 9.6" 14.5" 11.8" 9.6" 14.5" 11.3" 9.6" 13.6" 11.1" 9.0" 7.1" 4.6" 11.3" 9.2" 7.5" 5.9"	6.6" 3.7" CE C5 16.0" 15.4" 10.6" 7.4" 4.2" 16.0" 15.8" 10.9" 7.5" 16.0" 15.8" 10.9" 7.5" 16.0" 15.4" 16.0" 15.4" 16.0" 16.0" 15.4" 16.0" 15.8" 16.0" 16.0" 15.8" 16.0" 15.8" 16.0" 16.0" 15.8" 16.0" 15.8" 16.0" 15.8" 16.0" 15.8" 16.0" 15.8" 16.0" 15.8" 16.0" 15.8" 16.0" 15.8" 16.0" 15.8" 16.0" 15.8" 16.0" 15.8" 16.0" 15.8" 16.0" 15.8" 16.0" 15.8" 16.0" 15.8" 16.0" 15.8" 16.0" 16.0" 15.8" 16.0"	9.5" 6.3" 6.3" 16.0" 16.0" 16.0" 13.3" 10.7" 7.1" 16.0" 17.1" 16.0" 17.1" 16.0" 16.0" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 16.0" 17.1" 16.0" 16.0" 16.0" 17.1" 17.1"	5.2" <u>Spans</u> CC 16.0" 12.7" 9.9" 7.7" 5.8" 16.0" 13.0" 10.1" 7.9" 6.0" 14.5" 11.3" 8.7" 6.6" 4.1" 13.9" 10.2" 7.9'' 6.2" 4.7"	8.5" 5.0" Up To DNN TY C3 16.0" 16.0" 13.2" 9.5" 5.6" 16.0" 10.0" 16.0" 10.0" 1	4.1" 12'-0' PE C4 9.2" 7.4" 6.1" 5.0" 11.5" 9.2" 7.6" 6.2" 10.8" 8.7" 7.2" 5.8" 4.6" 9.0" 7.2" 5.9" 4.8" 3.8"	C5 14.7" 10.1" 7.5" 5.6" 4.2" 15.1" 10.3" 7.6" 5.8" 16.0" 11.5" 8.5" 6.4" 4.7" 11.8" 8.1"	BLOCK HOST STRUCT
	ANCHOR 1/4" ITW C.S. A.T.T. TAPCON WITH 1-3/4" EMBED. (3000 psi MIN. CONCRETE) 5/16" ITW C.S. TAPCON XL WITH 1-3/4" EMBED. (2899 psi MIN. CONCRETE) 1/4" DEWALT PANELMATE (MALE OR FEMALE) WITH 2" EMBED. (3350 psi MIN. CONCRETE) * 1/4-20 ALL POINTS SOLID- SET WITH 7/8" EMBED. (3000 psi MIN. CONCRETE) *	100 150 LOAD (psf) 45 55 66 80 100 150 45 55 66 80 100 150 45 55 66 80 100 150 45 55 66 80 100 150 150 150	16.0" 16	16.0" 13.1" Spans CC C2 16.0" 1	16.0" 16	13.6" 8.6" 8.6" PE C4 16.0"	16.0" 10.6" 10.6" 16.0" 16	14.3" 9.5" 2" 2" 16.0"	8.7" 5.2" MIN. E Spans CC 16.0" 16.0" 16.0" 13.3" 9.7" 5.8" 16.0" 1	14.3" 8.5" DGE D Up Tc DNN TY C3 16.0"	6.3" 4.1" PISTAN 8'-0" PE C4 14.5" 11.6" 9.5" 7.7" 6.1" 14.5" 11.8" 9.6" 14.5" 11.8" 9.6" 14.5" 11.3" 9.6" 13.6" 11.1" 9.0" 7.5" 7.5" 5.9" 3.8"	6.6" 3.7" CE C5 16.0" 15.4" 10.6" 7.4" 4.2" 16.0" 15.8" 10.9" 7.5" 16.0" 15.8" 10.9" 7.5" 16.0" 15.4" 16.0" 15.4" 16.0" 15.4" 16.0" 15.4" 16.0" 15.4" 16.0" 15.4" 16.0" 15.4" 16.0" 16.0" 15.4" 16.0" 16.0" 16.0" 15.4" 16.0" 16.0" 15.4" 16.0"	9.5" 6.3" 6.3" 16.0" 16.0" 16.0" 13.3" 10.7" 7.1" 16.0" 17.1" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 17.1" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 17.1" 16.0" 17.1" 16.0" 16.0" 17.1" 16.0" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 17.1" 16.0" 17.1"	5.2" <u>Spans</u> CC 2 16.0" 12.7" 9.9" 7.7" 5.8" 16.0" 13.0" 10.1" 7.9" 6.0" 11.3" 8.7" 6.6" 4.1" 13.9" 10.2" 7.9" 6.2" 4.7"	8.5" 5.0" Up To DNN TY C3 16.0" 16.0" 13.2" 9.5" 5.6" 16.0" 1	4.1" 12'-0' PE C4 9.2" 7.4" 6.1" 5.0" 11.5" 9.2" 7.6" 6.2" 10.8" 8.7" 7.2" 5.8" 4.6" 9.0" 7.2" 5.9" 4.8" 3.8"	C5 14.7" 10.1" 7.5" 5.6" 4.2" 15.1" 10.3" 7.6" 5.8" 16.0" 11.5" 8.5" 6.4" 4.7" 11.8" 8.1" 6.0" 4.5" 3.3"	CONCRETE BLOCK HOST
	ANCHOR 1/4" ITW C.S. A.T.T. TAPCON WITH 1-3/4" EMBED. (3000 psi MIN. CONCRETE) 5/16" ITW C.S. TAPCON XL WITH 1-3/4" EMBED. (2899 psi MIN. CONCRETE) 1/4" DEWALT PANELMATE (MALE OR FEMALE) WITH 2" EMBED. (3350 psi MIN. CONCRETE) * 1/4-20 ALL POINTS SOLID- SET WITH 7/8" EMBED. (3000 psi MIN. CONCRETE)	100 150 LOAD (psf) 45 55 66 80 100 150 45 55 66 80 100 150 45 55 66 80 100 150 45 55 66 80 100 150 45 55 66 80 100	16.0" 16	16.0" 13.1" Spans CC C2 16.0" 1	16.0" 16	13.6" 8.6" 8.6" PE C4 16.0"	16.0" 10.6" 10.6" 16.0" 16	14.3" 9.5" 2" 2" 16.0" 17.0" 16.0"	8.7" 5.2" MIN. E Spans CC 16.0" 16.0" 16.0" 13.3" 9.7" 5.8" 16.0" 1	14.3" 8.5" DGE D Up Tc DNN TY C3 16.0"	6.3" 4.1" PISTAN 8'-0" PE C4 14.5" 11.6" 9.5" 7.7" 6.1" 14.5" 14.5" 14.5" 14.5" 14.5" 14.5" 14.5" 14.5" 14.5" 14.5" 14.5" 13.6" 13.6" 13.6" 13.6" 13.8" 13.8"	6.6" 3.7" CE C5 16.0" 15.4" 10.6" 7.4" 4.2" 16.0" 15.8" 10.9" 7.5" 16.0" 15.8" 10.9" 7.5" 16.0" 15.4" 16.0" 15.4" 16.0" 15.4" 16.0" 15.4" 16.0" 15.4" 16.0" 15.4" 16.0" 15.4" 16.0" 16.0" 15.4" 16.0" 16.0" 16.0" 15.4" 16.0" 16.0" 15.4" 16.0"	9.5" 6.3" 6.3" 16.0" 16.0" 16.0" 13.3" 10.7" 7.1" 16.0" 13.7" 16.0" 13.7" 16.0" 15.2" 16.0" 15.2" 16.0" 15.2" 16.0" 15.2" 16.0" 15.5" 16.0" 15.5" 10.7" 10.7"	5.2" <u>Spans</u> CC C2 16.0" 12.7" 9.9" 7.7" 5.8" 16.0" 13.0" 16.0" 13.0" 16.0" 13.0" 16.0" 13.0" 10.1" 7.9" 6.0" 10.1" 7.9" 6.0" 11.3" 10.2" 7.9" 6.2" 4.7" 10.2" 7.9" 6.2" 4.7" 10.2" 7.9" 6.2" 10.2" 7.9" 6.2" 10.2" 7.9" 6.2" 10.2" 7.9" 6.2" 10.2" 7.9" 6.2" 7.9"	8.5" 5.0" Up To DNN TY C3 16.0" 16.0" 13.2" 9.5" 5.6" 16.0" 10.0" 16.0" 10.0" 1	4.1" 12'-0' PE C4 9.2" 7.4" 6.1" 5.0" 11.5" 9.2" 7.6" 6.2" 10.8" 7.2" 5.8" 4.6" 9.0" 7.2" 5.9" 4.8" 3.8" 7.0"	C5 14.7" 10.1" 7.5" 5.6" 4.2" 15.1" 10.3" 7.6" 5.8" 16.0" 11.5" 8.5" 6.4" 4.7" 11.8" 8.5" 6.4" 4.7" 11.8" 8.5" 6.0" 4.5" 13.0" 8.9"	CONCRETE BLOCK HOST
	ANCHOR 1/4" ITW C.S. A.T.T. TAPCON WITH 1-3/4" EMBED. (3000 psi MIN. CONCRETE) 5/16" ITW C.S. TAPCON XL WITH 1-3/4" EMBED. (2899 psi MIN. CONCRETE) 1/4" DEWALT PANELMATE (MALE OR FEMALE) WITH 2" EMBED. (3350 psi MIN. CONCRETE) * 1/4-20 ALL POINTS SOLID- SET WITH 7/8" EMBED. (3000 psi MIN. CONCRETE) * 1/4" DEWALT ULTRACON	100 150 LOAD (psf) 45 55 66 80 100 150 45 55 66 80 100 150 45 55 66 80 100 150 45 55 66 80 100 150 45 55 66 80 100 150 80 100 150 80 100 150 80 100 150 80 100 150 150 150 150 150 150 150 150 15	16.0" 16	16.0" 13.1" Spans CC C2 16.0" 1	16.0" 16	13.6" 8.6" 8.6" PE C4 16.0"	16.0" 10.6" 10.6" 10.6" 16.0" 16	14.3" 9.5" 2" 2" 16.0"	8.7" 5.2" MIN. E Spans CC C2 16.0" 16.0" 13.3" 9.7" 5.8" 16.0	14.3" 8.5" DGE D SUP TC DNN TY C3 16.0"	6.3" 4.1" PISTAN 8'-0" PE C4 14.5" 11.6" 9.5" 7.7" 6.1" 11.6" 9.5" 7.7" 16.0" 11.6" 14.5" 11.8" 9.6" 7.5" 16.0" 11.1" 9.6" 11.3" 9.0" 7.5" 5.9" 3.8" 13.8" 11.0" 9.0"	6.6" 3.7" CE C5 16.0" 15.4" 10.6" 15.4" 10.6" 15.8" 10.9" 7.5" 16.0" 15.8" 16.0" 15.8" 16.0" 15.8" 16.0" 15.8" 16.0" 15.4" 16.0" 15.8" 16.0" 16.0" 15.8" 16.0" 15.8" 16.0" 15.8" 16.0" 15.8" 16.0" 16.0" 15.8" 16.0" 15.8" 16.0" 15.8" 16.0" 15.8" 16.0" 16.0" 15.8" 16.0	9.5" 6.3" 6.3" 16.0" 16.0" 16.0" 13.3" 10.7" 7.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 16.0" 17.1" 17.1" 17.1" 16.0" 17.1"	5.2" <u>Spans</u> CC 2 16.0" 12.7" 9.9" 7.7" 5.8" 16.0" 13.0" 10.1" 7.9" 6.0" 11.3" 6.6" 11.3" 6.6" 4.1" 13.9" 10.2" 7.9" 6.2" 4.7" 10.2" 7.9" 6.2" 4.7" 8.7"	8.5" 5.0" Up To DNN TY C3 16.0" 16.0" 13.2" 9.5" 5.6" 16.0" 13.5" 9.8" 16.0" 16.0" 15.1" 16.0" 16.0" 15.1" 16.0" 15.1" 10.9" 6.4" 16.0" 15.1" 10.9" 6.4" 16.0" 15.1" 10.0" 15.6" 16.0	4.1" 12'-0' PE C4 9.2" 7.4" 6.1" 5.0" 11.5" 7.6" 6.2" 10.8" 8.7" 7.2" 5.8" 4.6" 9.0" 7.2" 5.9" 4.8" 3.8" 7.0" 5.8"	C5 14.7" 10.1" 7.5" 5.6" 4.2" 15.1" 10.3" 7.6" 5.8" 16.0" 11.5" 8.5" 6.4" 4.7" 11.8" 8.1" 6.0" 4.5" 3.3" 13.0" 8.9" 6.6"	CONCRETE BLOCK HOST
	ANCHOR 1/4" ITW C.S. A.T.T. TAPCON WITH 1-3/4" EMBED. (3000 psi MIN. CONCRETE) 5/16" ITW C.S. TAPCON XL WITH 1-3/4" EMBED. (2899 psi MIN. CONCRETE) 1/4" DEWALT PANELMATE (MALE OR FEMALE) WITH 2" EMBED. (3350 psi MIN. CONCRETE) * 1/4" DEWALT POINTS SOLID- SET WITH 7/8" EMBED. (3000 psi MIN. CONCRETE) * 1/4" DEWALT ULTRACON WITH 1-3/4" MIN EMBED	100 150 LOAD (psf) 45 55 66 80 100 150 45 55 66 80 100 150 45 55 66 80 100 150 45 55 66 80 100 150 45 55 66 80 100 150	16.0" 16	16.0" 13.1" Spans CC 2 16.0" 1	16.0" 16	13.6" 8.6" 8.6" PE C4 16.0"	16.0" 10.6" 10.6" 10.6" 16.0" 16	14.3" 9.5" 2" 2" 16.0"	8.7" 5.2" MIN. E Spans CC 2 16.0" 16.0" 16.0" 13.3" 9.7" 5.8" 16.0"	14.3" 8.5" DGE D SUP TC DNN TY C3 16.0"	6.3" 4.1" PISTAN 8'-0" PE C4 14.5" 11.6" 9.5" 7.7" 6.1" 16.0" 14.5" 11.3" 9.6" 7.5" 16.0" 14.5" 11.3" 9.6" 7.5" 16.0" 13.6" 11.1" 9.6" 11.3" 9.2" 7.5" 5.9" 3.8" 13.8" 11.0"	6.6" 3.7" CE C5 16.0" 15.4" 10.6" 7.4" 4.2" 16.0" 15.8" 10.9" 7.5" 16.0" 15.8" 16.0" 16.0" 16.0" 15.8" 16.0" 15.8" 16.0" 16.0" 15.8" 16.0" 16.0" 16.0" 16.0" 15.8" 16.0"	9.5" 6.3" 6.3" 16.0" 16.0" 16.0" 13.3" 10.7" 7.1" 16.0" 17.1" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 17.1" 16.0" 16.0" 16.0" 17.1" 16.0" 17.1" 16.0" 16.0" 16.0" 17.1" 16.0" 17.1" 16.0" 16.0" 16.0" 17.1" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 17.1" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 16.0" 17.1" 17.1" 16.0" 17.1"	5.2" <u>Spans</u> CC 2 16.0" 12.7" 9.9" 7.7" 5.8" 16.0" 13.0" 10.1" 7.9" 6.0" 11.3" 6.6" 11.3" 6.6" 4.1" 13.9" 10.2" 7.9" 6.2" 4.7" 10.2" 7.9" 6.2" 4.7" 10.2" 7.9" 6.2" 4.7" 10.2" 7.9" 6.2" 6.	8.5" 5.0" Up To DNN TY C3 16.0" 16.0" 13.2" 9.5" 5.6" 16.0" 1	4.1" 12'-0' PE C4 9.2" 7.4" 6.1" 5.0" 11.5" 9.2" 7.6" 6.2" 10.8" 7.2" 5.8" 4.6" 9.0" 7.2" 5.9" 4.8" 3.8" 7.0"	C5 14.7" 10.1" 7.5" 5.6" 4.2" 15.1" 10.3" 7.6" 5.8" 16.0" 11.5" 8.5" 6.4" 4.7" 11.8" 8.5" 6.4" 4.7" 11.8" 8.5" 6.6" 5.0"	CONCRETE BLOCK HOST

																		FRANK BE PE# 0046	NNARDO, 549 CA# 1	, PE 9885			
	1								U NATRI	EDCE	DICTA								BE STAR	NNAROS			
. 5	<u>.</u>			Spa	ns Up	To 4'-0			MIN. <u>Spar</u>		0 8'-0'			Spans	: Uр То	12'-0''		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
HOST	ANCHOR	LOA (psi	n l	1			_		1		1			1		1		10/09/3	0	10 20 2			
	5/16" ITW C.S. TAPCON XL	45	· U	C2	C3			C1	C2	C3	C4	C5	C1	C2	C3 11.6"	C4 7.4''	C5 7.2''	L'entre la	Social Contraction	ad Same			
HOLLOW CONCRETE	WITH 1-3/4" EMBED.	55	_	16.0			_	_				11.7'	9.5"	6.2"	9.5"	5.9"		100					
		66	_	' 16.0 ' 16.0	_	_	_	_		_	" 7.6" 6.1"	7.6"	7.9"		7.9"			밀	106	42			
보향		> 100		' 14.6	" 15.7		_	'' 7.8'	• /////	7.8"			5.2"					5	U H	33442 99 .com .com			
		150	10.4	7.2	" 10.4	6.5	" 5.9'	' 5.2'	• //////	<u> </u>	8	<u> </u>						낢뫄	SUIT	, FL 3 396-9999 PRESS.C			
								3"	MIN. E	DGE D	ISTAN	CE						ENGINEERIN	OFFICE	ERFIELD BEACH, FL 334 (954) 354-0660   (866) 396-9999 TEAM@ENGINEERINGEXPRESS.COM			
HOST STRUCT.		LOAD	-		Up To					Up To						12'-0''				BEACH, 660   (866) 3 IEERINGEXP INGEXPRE			
STR	ANCHOR	(psf)	C1	c2	ONN TY C3	PE C4	C5	C1	C2	опи тү Сз	PE C4	C5	C1	C2	оли тү Сз	РЕ   С4	C5	빌	CORPORATE				
1/4 WI MI	1/4" ITW C.S. A.T.T. TAPCON	45	15.7" 1	L5.7"	15.7''	9.5"	15.7"	7.9"	7.9"	7.9"	4.8"	7.9''	5.2"		5.2"			TIL	2tl	LD BE 354-0660 NGINEER			
	WITH 1" EMBED. (117 PCF MIN. DENSITY BLOCK)	55 66		L2.9" L0.7"	12.9'' 10.7''	7.8" 6.5"	12.9" 10.7"	6.4'' 5.4''	5.5"	6.4" 5.4"		5.3''	4.3"		4.3''	¥/////							
		80		8.9"	8.9"	5.4"	8.9"	4.4"		4.4"									5	R JAR			
		100		6.6''	7.1"	4.2"	7.1"											1 Mile	160 SW 12	D			
	1/4" DEWALT PANELMATE	150 45	4.7"	L6.0"	4.7'' 16.0''	13.6''	16.0"	14.0"	14.0"	14.0''	6.8"	14.0"	9.3''	6.8''	9.3"	4.3"	5.8''	¥					
Ř	(MALE OR FEMALE) WITH	55	16.0" 1	L6.0"	16.0''	11.1"	16.0"	11.5"	9.8''	11.5"	5.4"	9.4"	7.6''	5.0"	7.6"								
BLO	1-1/4" EMBED. (2071 psi MIN. BLOCK)	66 80		L6.0" L5.8"	16.0'' 15.8''	9.3" 7.7"	16.0" 15.8"	9.5" 7.9"	7.1" 5.2"	9.5" 7.9"	4.4"	6.1" 4.2"	6.4'' 5.3''		6.4" 5.2"								
Ë		100		L1.8"	12.6"	6.0"	12.6"	6.3"	3.2 ///////	6.3"			4.2"					Ι <u>Υ</u>	31				
<b>K</b>		150		5.8"	8.4"		4.7"	4.2"											52 945-1131				
HOLLOW CONCRETE BLOCK	1/4-20 ALL POINTS SOLID- SET WITH 7/8" EMBED.	D- 45 55		L6.0'' L6.0''	16.0'' 16.0''	16.0'' 16.0''	16.0" 16.0"	16.0" 16.0"	16.0" 14.7"	16.0'' 16.0''	10.6'' 8.4''	16.0" 14.2"	14.0" 11.5"	10.3" 7.6"	14.0'' 11.5''	6.6" 5.3"	8.7" 6.0"	ω.	62 945	TEEL STORM PANELS OUTSIDE THE HVHZ			
NO.	(1800 psi MIN. BLOCK)	66	16.0" 1	L6.0"	16.0''	14.4''	16.0"	14.4"	10.7"	14.4''	6.8"	9.1"	9.6''	5.8"	9.6"	4.4"	4.4"		BAY 6 FL 33162 (305) 94	N H			
		80 100		L6.0" L6.0"	16.0'' 16.0''	11.9'' 9.3''	16.0" 16.0"	11.9" 9.5"	7.9" 5.8"	11.9'' 9.5''	5.5" 4.3"	6.3" 4.4"	7.9"	4.5'' 3.4''	7.8" 5.7"	3.6"	3.3''		н <u>н</u> С	STO			
		150		8.7"	12.6"	9.3 5.9"	7.1"	9.5 6.3''	3.4"	9.5 5.7"	4.3	4.4	4.2"	3.4 ///////	3.3"				FAX:	1 i Č			
	1/4" DEWALT ULTRACON	45	16.0" 1	L6.0"	16.0''	9.7"	16.0"	9.3"	9.3"	9.3"	4.8"	9.3"	6.2"	4.6"	6.2"	3.0"	3.9''		EX -	ZED STEEL MAND OUT			
	WITH 1-1/4" MIN EMBED	55 66		L5.3" L2.7"	15.3'' 12.7''	7.9" 6.6"	15.3" 12.7"	7.6'' 6.4''	6.5'' 4.7''	7.6" 6.4"	3.8" 3.1"	6.3" 4.1"	5.1" 4.2"	3.3"	5.1" 4.2"			SHU	MIAMI B	E N E			
	<i></i>	80	10.5" 1	LO.5"	10.5"	5.4"	10.5"	5.3"	3.5"	5.3"			3.5"		3.5"			l N H	MIA 145-	INIH.			
		100		7.8"	8.4"	4.3"	8.4"	4.2"		4.2"								TIC SHU	5) S	Galvanized se within an el 3:			
<u> </u>		150	5.0	3.9"	5.6"		3.1"		×///////	×///////	×////////					X///////		길	NORTH MIAMI BEACH, (305) 945-7277 FAX	9" GALVANIZED S <sup>-</sup> USE WITHIN AND El 210'			
E E				Snans	Up To	4'-0''		2"	MIN. E	DGE D Up To		CE		Snans	Un To	12'-0''		<b>I</b> ₹		0.029" - FOR US			
HOST STRUCT.	ANCHOR	LOAD (psf)	-		NN TY					OD TO									PHONE	9 M			
보다	1/4" ITW C.S. A.T.T. TAPCON		C1	C2	C3	C4	C5	C1	C2	C3 7.9"	C4	C5	C1	C2	C3	C4	C5	ĮĘ					
	WITH 1" EMBED. (117 PCF	45 55			15.7'' 12.9''	9.1" 7.4"	15.7" 12.9"	7.9'' 6.4''	7.9" 5.5"	6.4"	4.5"	7.9'' 5.3''	5.2" 4.3"		5.2" 4.3"			1					
		66	10.7" 1	LO. 7''	10.7''	6.2"	10.7"	5.4"		5.4"								00					
		80 100		8.9'' 6.6''	8.9" 7.1"	5.1" 4.0"	8.9" 7.1"	4.4"		4.4''								DATE 08/23/16 12/15/16	9/28/20	PRESS TIONS FIONS			
		150	4.7"		4.7"															NG EX WRT WY LITERW LITERW			
×	1/4" DEWALT PANELMATE	45 55	16.0" 1 16.0" 1	L6.0" L6.0"	16.0'' 16.0''	14.3'' 11.7''		14.5" 11.9"	14.5" 10.1"	14.5'' 11.9''	7.2" 5.7"	14.5" 9.8"	9.7'' 7.9''	7.1" 5.2"	9.7" 7.9"	4.5"	6.0" 4.1"	CHKD FLB \$FLB	FLB -	E OR P E OR P DOCULI			
Ŋ	(MALE OR FEMALE) WITH 1-1/4" EMBED. (2071 psi	66	16.0" 1		16.0"	9.8"	16.0"	9.9"	7.4"	9.9"	4.6"	9.8 6.3"	6.6"	4.0"	6.6"			DRWN Z.AR BEVMILS	CCB	OF EN MMHON MG EDGPI OTHIS			
E E		80	16.0" 1	L6.0"	16.0''	8.1"	16.0"	8.2"	5.5"	8.2"		4.3"	5.5"		5.4"			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ωŭ,	PERTY NICED I NICED I OURS T			
CONCRETE BLOCK		100 150	13.1" 1 8.7"	12.2'' 6.0''	13.1" 8.7"	6.3" 4.0"	13.1" 4.9"	6.5'' 4.4''		6.5"			4.4"					S & NE		тны россикемт из тъе перстват о е чажеванае рокева, изо вчиди тоте в савтопоство и миось са кнати итнол инаттер совезато се вкакиетанае дочезав, катаратока, а кототека, кото тъек микака тот виз воссидант изе мот резмиттер до пихацкате сих осятитски ток.			
Ž	1/4-20 ALL POINTS SOLID-	45	16.0" 1	L6.0"	16.0''	15.7"	16.0"	16.0"	16.0"	16.0''	7.8"	16.0"	12.7"	9.3''	12.7''	5.0"	7.9''	REMARKS INIT ISSUE REV (ADD ANCHORS		NT IS THE R			
Š	SET WITH 7/8" EMBED. (1800 psi MIN. BLOCK)	55 66	16.0" 1 16.0" 1		16.0'' 16.0''	12.8'' 10.7''		15.6" 13.0"	13.3" 9.6"	15.6'' 13.0''	6.2" 5.1"	12.8" 8.3"	10.4" 8.7"	6.8'' 5.3''	10.4'' 8.7''	4.0" 3.3"	5.4'' 4.0''	REMARKS INIT ISSUE REV (ADD ANO		ALL NG N CON			
MOTTOH		80	16.0" 1		16.0"	8.8"		10.7"	9.0 7.1"	10.7"	4.1"	0.3 5.7''	7.2"	5.5 4.1''	0.7 7.1"		3.0"	EMA IT ISS EV (AC	REV-2017 FB 2020 FBC	AND 6H MRITTE MRITTE ADDITIO			
۲ ۲		100			16.0"	6.9"	16.0"	8.6"	5.2"	8.6"	3.3"	3.9"	5.7"	3.1"	5.1"					ING EXPRESS			
	1/4" DEWALT ULTRACON	150 45	11.4" 16.0" 1	7.9"  6.0"	11.4" 16.0"	4.4" 8.6"	6.4" 16.0"	5.7" 9.3"	3.1" 9.3"	5.1" 9.3"	4.3"	9.3"	3.8'' 6.2''	4.6''	3.0" 6.2"			20	-310	)17a			
	WITH 1-1/4" MIN EMBED	55	15.3" 1	L5.3"	15.3"	7.0"	15.3"	7.6''	6.5''	7.6"		6.3"	5.1"		5.1"				N.T.S. L				
		66 80	12.7" 1 10.5" 1		12.7'' 10.5''	5.9" 4.8"	12.7" 10.5"	6.4'' 5.3''	4.7''	6.4" 5.3"		4.1"	4.2"		4.2''					of 5			
		100		7.8"	8.4"	4.8	8.4"	4.2"		4.2"								1	<b>/</b> ¬	3			
		150	5.6''		5.6"														Δl	1			
																		1	<u> </u>	-			

### ANCHOR SCHEDULES:

								4" MIN. EDGE DISTANCE										
5				Spans Up To 4'-0" Spans Up To 8'-0"										Spans Up To 12'-0"				
R <sup>2</sup>	ANGLIOD	LOAD	CONN TYPE					CC	ONN TY	PE			CC	NN TY	PE			
HOST STRUCT.	ANCHOR	(psf)	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	
	5/16" ITW C.S. TAPCON XL	45	16.0"	16.0"	16.0''	16.0"	16.0"	16.0"	16.0"	16.0"	16.0"	16.0"	16.0"	15.8"	16.0"	12.0"	13.4"	
	WITH 1-3/4" EMBED.	55	16.0"	16.0''	16.0''	16.0"	16.0"	16.0"	16.0"	16.0"	15.1"	16.0"	16.0"	11.6"	16.0"	9.6"	9.2"	
	_	66	16.0"	16.0''	16.0''	16.0"	16.0"	16.0"	16.0"	16.0''	12.3"	14.1"	14.8"	9.0"	14.8''	7.8''	6.8''	
	Contemportunition 1	80	16.0"	16.0''	16.0''	16.0"	16.0"	16.0"	12.2"	16.0''	9.9"	9.7"	12.2"	7.0"	12.1"	6.4"	5.1"	
IH.		100	16.0"	16.0''	16.0''	16.0"	16.0"	14.6"	8.9"	14.6''	7.8"	6.7''	9.7''	5.3"	8.7"	5.0''		
R		150	16.0"	13.4''	16.0''	10.6"	10.9"	9.7''	5.3"	8.7"	5.0''		6.5''		5.1"			
ž	5/16" ITW C.S. TAPCON XL	45	16.0"	16.0''	16.0''	16.0"	16.0"	16.0"	16.0''	16.0''	16.0"	16.0"	16.0"	16.0''	16.0''	16.0"	16.0"	
Я×	WITH 2-1/4" EMBED.	55	16.0"	16.0''	16.0''	16.0"	16.0"	16.0"	16.0''	16.0''	16.0"	16.0"	16.0"	16.0''	16.0''	14.5"	16.0"	
ILLED CONCRETE BLOCK	_	66	16.0"	16.0''	16.0''	16.0"	16.0"	16.0"	16.0''	16.0''	16.0"	16.0"	16.0"	16.0''	16.0''	11.9"	13.2"	
그교	-	80	16.0"	16.0''	16.0''	16.0"	16.0"	16.0"	16.0''	16.0''	15.0"	16.0"	16.0"	13.5"	16.0''	9.7"	9.9"	
Ę	E	100	16.0"	16.0''	16.0''	16.0"	16.0"	16.0"	16.0''	16.0''	11.8"	13.0"	16.0"	10.3"	16.0''	7.7"	7.3"	
GROUT-FILL BL		150	16.0"	16.0''	16.0''	16.0"	16.0"	16.0"	10.3''	16.0''	7.7"	7.3''	12.6"	6.4"	9.9"	5.1"		
N.	1/4" DEWALT ULTRACON W/	45	16.0"	16.0''	16.0''	16.0"	16.0"	16.0"	16.0''	16.0''	10.4"	16.0"	16.0"	13.3"	16.0''	6.6"	11.3"	
0	2-1/4" MIN. EMBED	55	16.0"	16.0''	16.0''	16.0"	16.0"	16.0"	16.0''	16.0''	8.3"	16.0"	14.9"	9.8"	14.9''	5.3''	7.7"	
		66	16.0"	16.0''	16.0''	14.1"	16.0"	16.0"	13.8"	16.0''	6.8"	11.9"	12.4"	7.6"	12.4''		5.7"	
		80	16.0"	16.0''	16.0''	11.6"	16.0"	15.4"	10.2"	15.4''	5.5''	8.2''	10.3"	5.9"	10.2''			
		100	16.0"	16.0''	16.0''	9.2"	16.0"	12.3"	7.5"	12.3"		5.7"	8.2"	4.5"	7.3"			
		150	16.0"	11.3"	16.0''	5.9''	9.2"	8.2"	4.5''	7.3"			5.5"					

									" MIN.	EDGE	DISTA	VCE					
HOST STRUCT.				Spans	; Uр То	4'-0"			Spans	; Uр То	8'-0"		Spans Up To 12'-0"				
R <sup>D</sup>	ANCHOR	LOAD (psf)		CC	ONN TY	PE		CONN TYPE					CONN TYPE				
문문	ANCHOR		C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
	1/4" LAG SCREW WITH	45	16.0"	16.0''	16.0''	14.7"	16.0"	16.0"	16.0''	16.0''	7.3"	16.0"	16.0"	16.0''	16.0''	4.8"	15.4"
	1-7/8" THREAD	55	16.0"	16.0''	16.0''	12.0"	16.0"	16.0"	16.0''	16.0''	5.9''	16.0"	16.0"	13.3"	16.0''	3.9"	10.5"
	PENETRATION	66	16.0"	16.0''	16.0''	10.0"	16.0"	16.0"	16.0''	16.0''	4.9"	16.0"	16.0"	10.3"	16.0''	3.2"	7.8''
	<u>&amp;&amp;&amp;&amp;&amp;&amp;&amp;&amp;&amp;&amp;&amp;</u>	80	16.0"	16.0"	16.0''	8.2"	16.0"	16.0"	13.9"	16.0''	4.0"	11.1''	14.0"	8.0"	13.8''	2.6''	5.9"
	H	100	16.0"	16.0"	16.0''	6.6"	16.0"	16.0"	10.2"	16.0''	3.2"	7.7"	11.2"	6.1"	10.0"	2.1"	4.3"
		150	16.0"	15.4''	16.0''	4.3"	12.5"	11.2"	6.1"	10.0''	2.1"	4.3"	7.4"	3.8"	5.9"		2.6''
	1/4" ITW C.S. A.T.T. TAPCON	45	16.0"	16.0''	16.0''	16.0"	16.0"	16.0"	16.0''	16.0''	8.8"	16.0"	16.0"	16.0''	16.0''	5.7"	14.3"
	WITH 1-3/4" THREAD	55	16.0"	16.0''	16.0''	14.3"	16.0"	16.0"	16.0''	16.0''	7.0"	16.0"	16.0"	12.4''	16.0''	4.6"	9.8''
12	PENETRATION	66	16.0"	16.0''	16.0''	11.9"	16.0"	16.0"	16.0''	16.0''	5.8''	15.0"	15.7"	9.6"	15.7"	3.8''	7.2"
MIN.)		80	16.0"	16.0''	16.0''	9.8"	16.0"	16.0"	12.9''	16.0''	4.7"	10.3"	12.9"	7.4"	12.8''	3.1"	5.5"
ഹ		100	16.0"	16.0"	16.0''	7.8"	16.0"	15.5"	9.4"	15.5"	3.8''	7.1"	10.3"	5.6"	9.2"	2.5"	4.0"
0.5		150	16.0"	14.2"	16.0''	5.1"	11.6"	10.3"	5.6"	9.2"	2.5"	4.0"	6.9''	3.5"	5.5"		2.4"
Ū	1/4" DEWALT PANELMATE	45	16.0"	16.0"	16.0''	16.0"	16.0"	16.0"	16.0''	16.0''	13.4"	16.0"	16.0"	16.0''	16.0"	8.6"	16.0"
$\sim$	(MALE OR FEMALE) WITH	55	16.0"	16.0''	16.0''	16.0"	16.0"	16.0"	16.0''	16.0''	10.7"	16.0"	16.0"	15.7"	16.0''	6.9"	12.4"
MOOD	1-7/8" THREAD	66	16.0"	16.0''	16.0''	16.0"	16.0"	16.0"	16.0''	16.0''	8.8"	16.0"	16.0"	12.2"	16.0''	5.7''	9.2''
N S		80	16.0"	16.0''	16.0''	15.0"	16.0"	16.0"	16.0''	16.0''	7.2"	13.1"	16.0"	9.5"	16.0''	4.7"	6.9''
		100	16.0"	16.0"	16.0''	11.9"	16.0"	16.0"	12.0"	16.0''	5.7''	9.1"	13.2"	7.2"	11.8"	3.7"	5.1"
		150	16.0"	16.0''	16.0''	7.7"	14.8"	13.2"	7.2"	11.8''	3.7"	5.1"	8.8''	4.5''	6.9"	2.5"	3.1"
	WOOD BUSHING WITH 5/8"	45	16.0"	16.0''	16.0''	15.4"	16.0"	15.4"	15.4''	15.4"	7.7"	15.4"	10.3"	7.5"	10.3"	4.9"	6.4''
		55	16.0"	16.0"	16.0''	12.6"	16.0"	12.6"	10.7"	12.6''	6.1"	10.4"	8.4''	5.5"	8.4"	3.9"	4.4"
		66	16.0"	16.0''	16.0''	10.5"	16.0"	10.5"	7.8"	10.5"	5.0"	6.7''	7.0"	4.3"	7.0"	3.2"	3.2"
		80	16.0"	16.0''	16.0''	8.7"	16.0"	8.7"	5.8"	8.7"	4.0"	4.6"	5.8"	3.3"	5.7"	2.6"	2.4''
		100	13.9"	12.9"	13.9"	6.8"	13.8"	6.9"	4.2"	6.9"	3.2"	3.2"	4.6"	2.5"	4.1"	2.1"	
			9.2"	6.4"	9.2"	4.3"	5.2''	4.6"	2.5"	4.1"	2.1"		3.1"		2.4"		

TABLE 1							
ALLOWABLE SPAN SCHEDULE							
PANEL SPAN	ALLOWABLE DESIGN PRESSURE						
144"	+ 27.0 PSF	- 27.0 PSF					
138"	+ 30.3 PSF	- 30.3 PSF					
132"	+ 34.0 PSF	- 34.0 PSF					
126"	+ 38.4 PSF	- 38.4 PSF					
120"	+ 43.4 PSF	- 43.4 PSF					
114"	+ 49.4 PSF	- 49.4 PSF					
108"	+ 56.4 PSF	- 56.4 PSF					
102"	+ 64.9 PSF	- 64.9 PSF					
96"	+ 75.0 PSF	- 75.0 PSF					
90"	+ 80.0 PSF	- 80.0 PSF					
84"	+ 85.7 PSF	- 85.7 PSF					
78''	+ 92.3 PSF	- 92.3 PSF					
72"	+ 100.0 PSF	- 100.0 PSF					
66"	+ 109.1 PSF	- 109.1 PSF					
60"	+ 120.0 PSF	- 120.0 PSF					
54"	+ 133.3 PSF	- 133.3 PSF					
48"	+ 150.0 PSF	- 150.0 PSF					

### TABLE 1 NOTES:

- 1. INSTALLATIONS SHALL NOT EXCEED THE MAXIMUM ALLOWABLE STRESS DESIGN (ASD) DESIGN RATINGS AND MAXIMUM SPAN LIMITS. ULTIMATE DESIGN WIND LOADS DETERMINED BY THE FBC AND ASCE 7 SHALL BE REDUCED TO ASD BY MULTIPLYING BY 0.6 (SEE FBC SECTION 1609).
- 2. LINEAR INTERPOLATION BETWEEN SHUTTER SPANS IS NDT PERMITTED. FOR SPANS BETWEEN THDSE INDICATED ABOVE, THE DESIGN PRESSURES FOR THE NEXT HIGHER SPAN SHALL BE USED.
- 3. DESIGN PRESSURES NOTED IN TABLE 1 APPLY TO ALL MOUNTING AND ANCHORAGE CONDITIONS AND SHALL NOT BE EXCEEDED.

#### ANCHOR NOTES:

- INSTALLATIONS SHALL NOT EXCEED THE MAXIMUM ALLOWABLE STRESS DESIGN (ASD) DESIGN RATINGS AND MAXIMUM SPAN LIMITS. ULTIMATE DESIGN WIND LOADS DETERMINED BY THE FBC AND ASCE 7 SHALL BE REDUCED TO ASD BY MULTIPLYING BY 0.6 (SEE FBC SECTION 1609).
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. MANUFACTURER RATED EQUIVALENTS OF THE ANCHORS SPECIFIED IN THE TABLES ARE PERMITTED. 2.
- WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2x (MIN) WOOD STUD (i.e. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR 4. ANCHORS TO WOOD FRAMING). 1" MIN. END DISTANCE IS REQUIRED FOR ALL WOOD INSTALLATIONS.
- 5. ALL CONCRETE ANCHORS SHALL BE INSTALLED TO NON-CRACKED CONCRETE ONLY.
- EMBEOMENT AND MINIMUM EDGE DISTANCE SHALL BE AS NOTED IN ANCHOR SCHEDULE. EMBEOMENT AND MINIMUM EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL 6. FINISHES
- 7. ANCHOR SCHEDULE APPLIES TO ALL PRODUCTS CERTIFIED HEREIN, BUT ONLY PROVIDES MAXIMUM ALLOWABLE ANCHOR SPACING. MAXIMUM ALLOWABLE SPANS AND PRESSURES INDICATED IN SPAN SCHEDULE(S) SHALL APPLY.
- WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD. 8 9. MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD ("SIDEWALK BOLT") UND
- 10. DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE FOR USE.
- \* DESIGNATES ANCHORS WHICH ARE REMOVABLE AND MAY BE USED FOR DIRECT MOUNT INSTALLATIONS. 11
- 12. WHEN ANCHORING TO HOLLOW BLOCK, SDS DRILLS SHOULD NOT BE USED TO DRILL INTO HOLLOW BLOCK, NOR SHOULD IMPACT DRILLS BE USED TO INSTALL CONCRETE SCREWS TO HOLLOW BLOCK.
- 13. FOR DIRECT PANEL ATTACHMENTS (C1 AND C2) ROUND DOWN TO EITHER 12" O.C OR 6" O.C (FOR EXAMPLE: IF ANCHOR SCHEDULE SAYS 16" O.C., USE 12" O.C., IF ANCHOR SCHEDULE SAYS 8" D.C. USE 6" D.C. IF ANCHOR SCHEDULE SPACING IS LESS THAN 6" D.C. ANCHOR IS NOT APPLICABLE)
- 14. ANCHORS BY THE HILLMAN GROUP MAY BE SUBSTITUTED FOR APPLICABLE ANCHORS HEREIN IF CERTIFIED SEPARATELY BY PROFESSIONAL ENGINEER.

#### TABLE 2

#### SEPARATION FROM GLAZING REQUIRED FOR USE IN HVHZ AND WIND ZONE 4

PANEL SPAN	INSTALLATIONS ≤ 30' ABOVE GRADE	INSTALLATIONS > 30' ABOVE GRADE				
144''	3.1"	2.6"				
138"	3.1"	2.5"				
132"	3.1"	2.5"				
126"	3.1"	2.4"				
120"	3.1"	2.3"				
114"	3.1"	2.2"				
108''	3.1"	2.2"				
102"	3.1"	2.1"				
96"	2.4"	2.0"				
90"	2.4"	1.8"				
84"	2.4"	1.7"				
78"	2.4"	1.6"				
72"	2.4"	1.5"				
66''	2.4"	1.4"				
60"	2.4"	1.3"				
54"	2.4"	1.2"				
48''	1.8"	1.2"				

## TABLE 2 NOTES:

1. INSTALLATIONS SHALL NOT EXCEED THE MAXIMUM ALLOWABLE STRESS DESIGN (ASD) DESIGN RATINGS AND MAXIMUM SPAN LIMITS. ULTIMATE DESIGN WIND LOADS DETERMINED BY THE FBC AND ASCE 7 SHALL BE REDUCED TO ASD BY MULTIPLYING BY 0.6 (SEE FBC SECTION 1609).

2. ENTER TABLE 2 WITH PDSITIVE LOAD TO DETERMINE MIN. STORM SHUTTER SEPARATION FROM GLASS.

3. THESE STORM PANELS ARE NOT APPROVED FOR INSTALLATION IN ESSENTIAL FACILITIES AS DEFINED IN ASCE 7.

FRANK BENNARDO, PE PE# 0046549 CA# 9885								
CORPORATE OFFICE: CORPORATE OFFICE: 160 SW 12th AVE, SUITE 106 DEERFIELD BEACH, FL 33442 (954) 354-0660   (866) 366-9999 TEMMERINGEXPRESS.COM ENGINEERINGEXPRESS.COM								
ATLANTIC SHUTTERS, INC. 1970 NE 153RD ST. BAY 6 NORTH MIAMI BEACH, FL 33162	PHONE: (305) 945-7277 FAX: (305) 945-1131 0.029" GALVANIZED STEEL STORM PANELS FOR USE WITHIN AND OUTSIDE THE HVHZ FL21070.1							
DATE 08/23/16 12/15/16 10/5/17 9/26/20	EXPRESS, I WITHOUT RATIONS, T ARE NOT							
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# ENGINEERING EXPRESS<sup>®</sup> PRODUCT EVALUATION REPORT

September 28, 2020

Application Number: EX Project Number:	<u>FL210</u> 20-310	<u>70.1-R3</u> 117
Product Manufacturer: Manufacturer Address:	1970 N	
Product Name & Descr	iption:	0.029" Galvanized Steel Storm Panels HVHZ and Non-HVHZ Compliant

## Scope of Evaluation:

This Product Evaluation Report is being issued in accordance with the requirements of the Florida Department of Business and Professional Regulation (Florida Building Commission) Rule Chapter 61G20-3.005, F.A.C., for statewide acceptance per Method 1(d). The product noted above has been tested and/or evaluated as summarized herein to show compliance with the Florida Building Code Seventh Edition (2020) and is, for the purpose intended, at least equivalent to that required by the Code. Re-evaluation of this product shall be required following pertinent Florida Building Code modifications or revisions.

## Substantiating Data:

#### PRODUCT EVALUATION DOCUMENTS

EX drawing #20-31017a titled "0.029" Galvanized Steel Storm Panels", sheets 1-5, prepared by Engineering Express, signed & sealed by Frank Bennardo, PE is an integral part of this Evaluation Report.

#### • TEST REPORTS

Uniform static structural performance has been tested in accordance with TAS 202 test standards per test report #16-6667 (signed by Idalmis Ortega, PE) by Fenestration Testing Laboratory, Inc.

Large missile impact resistance and cyclic loading performance have been tested in accordance with TAS 201 and TAS 203 per test report #16-6667 (signed by Idalmis Ortega, PE) by Fenestration Testing Laboratory, Inc.

#### • STRUCTURAL ENGINEERING CALCULATIONS

Structural engineering calculations have been prepared which evaluate the product based on comparative and/or rational analysis to qualify the following design criteria:

- 1. Maximum Allowable Spans
- 2. Anchor Spacing
- 3. Maximum Allowable Size/Pressure Combinations
- 4. Anchor Capacity

No 33% increase in allowable stress has been used in the design of this product.



Atlantic Shutters, Inc. -0.029" Galvanized Steel Storm Panels

## Impact Resistance:

Large Missile Impact Resistance has been demonstrated as evidenced in previously listed test reports, and is accounted for in the engineering design of this product.

## Wind Load Resistance

This product has been designed to resist wind loads as indicated in the span schedule(s) on the Product Evaluation Document (i.e. engineering drawing).

## Installation

The product listed above shall be installed in strict compliance with the Product Evaluation Document (i.e. engineering drawing), along with all components noted therein.

The product components shall be of the material specified in the Product Evaluation Document (i.e. engineering drawing).

## Limitations & Conditions of Use:

Use of this product shall be in strict accordance with the Product Evaluation Document (i.e. engineering drawing) as noted herein.

All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in this product's respective anchor schedule. Host structure conditions which are not accounted for in this product's respective anchor schedule shall be designed for on a site-specific basis by a registered professional engineer.

All components which are permanently installed shall be protected against corrosion, contamination, and other such damage at all times.

This product has been designed for use within and outside the High Velocity Hurricane Zone (HVHZ).

Respectfully,



Frank Bennardo, PE ENGINEERING *EXPRESS*® #PE0046549 | Cert. Auth. 9885