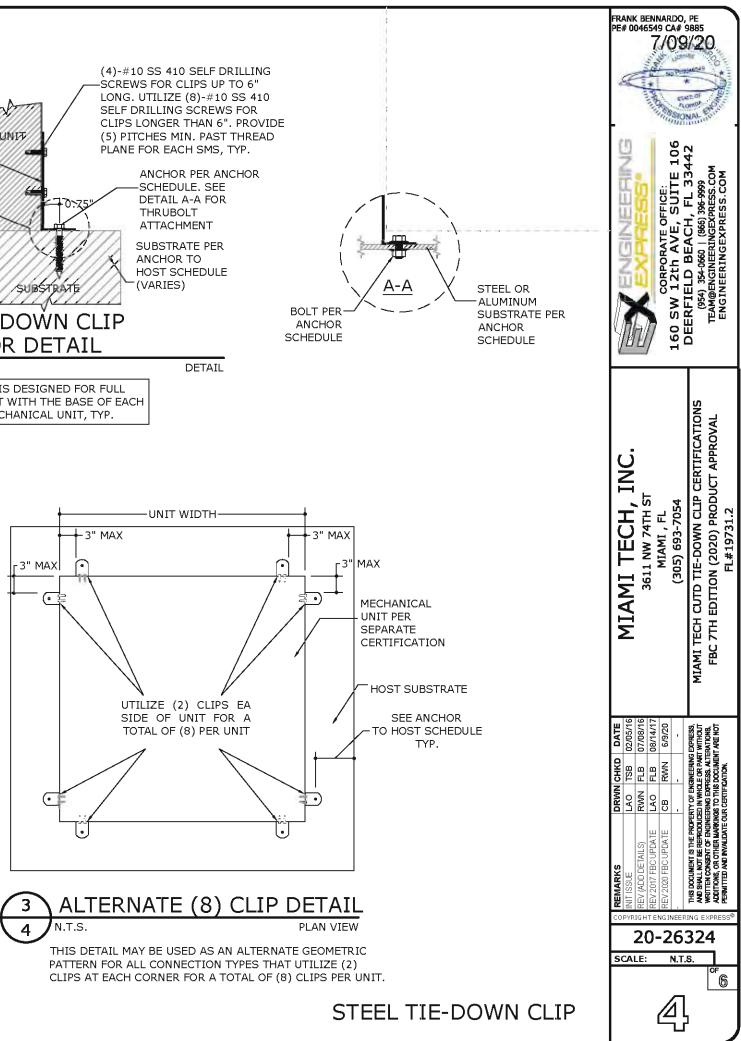


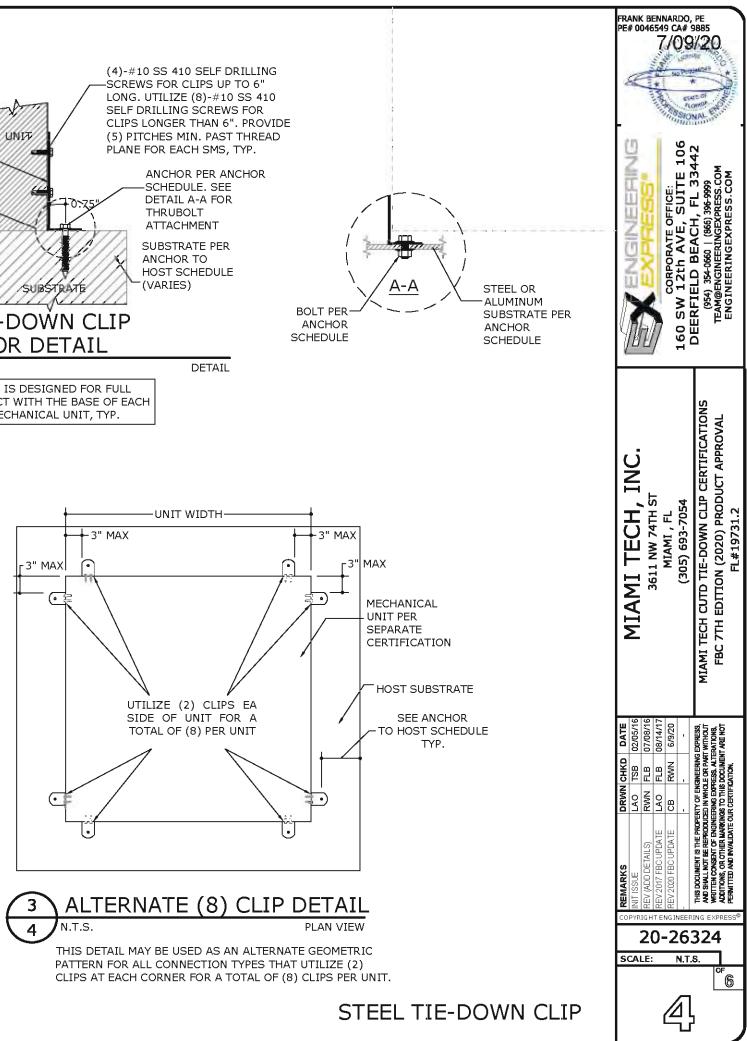
### ANCHOR TO HOST SCHEDULE:

SUBSTRATE	DESCRIPTION
CONCRETE: (4" THICK MIN, 3000 PSI MIN.)	(1)-1/4"Ø STAINLESS STEEL 410 DEWALT ULTRACON, 1¾" FULL EMBED TO CONCRETE, 2½" MIN. EDGE DISTANCE, 3" MIN. SPACING TO ANY ADJACENT ANCHOR.
ALUMINUM: (0.125" MIN. THICK, 6061-T6 MIN. ALUMINUM)	(1)-#14 SAE STAINLESS STEEL BOLT 410 WITH NUT AND WASHER TOP & BOTTOM SS OD 1", ½" MINIMUM EDGE DISTANCE TO METAL EDGE
STEEL: (0.125" MIN. THICK, 50 KSI MIN. STEEL)	(1)-#14 SAE STAINLESS STEEL BOLT 410 WITH NUT AND WASHER TOP & BOTTOM SS OD 1", ½" MINIMUM EDGE DISTANCE TO METAL EDGE

EMBEDMENT AND EDGE DISTANCE EXCLUDES FINISHES, IF APPLICABLE. 1.

- ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE.
- ENSURE MINIMUM SPACING TO ANY ADJACENT ANCHORS З
- SEE DETAILS ON SHEET 4 FOR ANCHORS ATTACHING TO MECHANICAL UNIT. 4.
- PROTECT ALL METALS FROM DISSIMILAR METALS GENERAL NOTE #5 5.





### TABLE 1 PERMISSIBLE INSTALLATION HEIGHTS: Vult=175 MPH, EXPOSURE C

(FOR USE WITH A RISK CATEGORY II STRUCTURE IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ)\*) RISK CATEGORY II IS PER ASCE 7-16

RAI	I IS PER ASCE 7-16								
				ALLOWABLE ROOF-TOP HEIGHT (H)					
		-		TIE-DOWN CONFIGURATION TYPE					
	MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	C1	C2	C3	C4		
	6 FT <sup>2</sup>	29" MAX	15" MIN	AT GRADE	H ≤ 200 FT	AT GRADE	H ≤ 200 FT		
	9 FT <sup>2</sup>	36" MAX	27" MIN	AT GRADE	H ≤ 200 FT	AT GRADE	H ≤ 200 FT		
	4 FT <sup>2</sup>			H ≤ 160 FT	H ≤ 200 FT	H ≤ 200 FT	H ≤ 200 FT		
	6 FT <sup>2</sup>			H ≤ 15 FT	H ≤ 200 FT	H ≤ 30 FT	H ≤ 200 FT		
	9 FT <sup>2</sup>	48" MAX	36" MIN	AT GRADE	H ≤ 200 FT	AT GRADE	H ≤ 200 FT		
	12 FT <sup>2</sup>			N/A	H ≤ 60 FT	N/A	H ≤ 100 FT		
	16 FT <sup>2</sup>			N/A	H ≤ 15 FT	N/A	H ≤ 15 FT		
	20 FT <sup>2</sup>			N/A	AT GRADE	N/A	AT GRADE		
	25 FT <sup>2</sup>	60" MAX	48" MIN	N/A	AT GRADE	N/A	AT GRADE		
	30 FT <sup>2</sup>			N/A	N/A	N/A	N/A		
	36 FT <sup>2</sup>			N/A	N/A	N/A	N/A		

\*THIS TABLE IS PERMISSIBLE TO BE USED WITHIN THE **HVHZ** WHICH CONTAINS BROWARD AND MIAMI-DADE COUNTIES. CHECK WITH LOCAL AUTHORITY HAVING JURISDICTION FOR THE APPLICABILITY OF THIS TABLE WITHIN CERTAIN FLORIDA COUNTIES.

	A RISK CATEG RY II IS PER ASG	GORY II STRU			CITY HURRICA		iz)*) Γ (H)	MPH, EXPOSURE	æ	A CONTRACTOR	* Col
SURF	IAXIMUM ACE AREA OF I'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	C1	C2	СЗ	C4		UNIE	TE 106	ERFIELD BEACH, FL 33442 (954) 354-0660   (866) 396-9999 TEAM@ENGINEERINGEXPRESS.COM ENGINEERINGEXPRESS.COM
	6 FT <sup>2</sup>	29" MAX	15" MIN	N/A	H ≤ 200 FT	AT GRADE	H ≤ 200 FT	_	111	U üĘ	
	9 FT <sup>2</sup>	36" MAX	27" MIN	N/A	H ≤ 140FT	N/A	H ≤ 200 FT			, SUI	1, F
	4 FT <sup>2</sup>	_		H ≤ 80 FT	H ≤ 200 FT	H ≤ 140FT	H ≤ 200 FT		20	μ μ μ	
	6 FT <sup>2</sup>			AT GRADE	H ≤ 200 FT	AT GRADE	H ≤ 200 FT	_	(1)	<u>کځ</u>	U _10 20 20 20 20 20 20 20 20 20 20 20 20 20
	9 FT <sup>2</sup>	48" MAX	36" MIN	N/A	H ≤ 160 FT	AT GRADE	H ≤ 200 FT	_	Z	2 g f	
	12 FT <sup>2</sup>	_		N/A	H ≤ 30 FT	N/A	H ≤ 40 FT	_	111	U.53	
	16 FT <sup>2</sup>	+		N/A	AT GRADE	N/A	AT GRADE	_		s N	DEERFIE (954) TEAM@E ENGIN
	20 FT <sup>2</sup> 25 FT <sup>2</sup>	-		N/A N/A	AT GRADE N/A	N/A N/A	AT GRADE N/A	_		0	R AN
	30 FT <sup>2</sup>	60" MAX	48" MIN	N/A N/A	N/A N/A	N/A N/A	N/A N/A	_	ΥL	160	ij
	36 FT <sup>2</sup>	-		N/A	N/A	N/A	N/A	_	10	4/ H	
									Ň	F	
E WITH .	A RISK CATEG	ORY II STRUC	TURE**)	ALLATIC	ALLATION RO	OF HEIGHT	/ult=170	MPH, EXPOSURE	— Н	3611 NW 74TH ST MIAMI , FL (305) 693-7054	ΡĔ
E WITH . TEGORY	A RISK CATEG <sup>(</sup> / II IS PER ASCI	ORY II STRUC	TURE**)	LOWABLE INST.	ALLATION RO	OF HEIGHT N TYPE	/ult=170	MPH, EXPOSURE	1 TECH.	3611 NW 74TH ST MIAMI , FL (305) 693-7054	MIAMI TECH CUTD TIE-DOWN CLIP CER FBC 7TH EDITION (2020) PRODUCT
E WITH . TEGORY ACE A OF T'S T FACE t <sup>2</sup>	A RISK CATEG (II IS PER ASCI UNIT L HEIGHT W	ORY II STRUC E 7-16 JNIT VIDTH	TURE**) <u>ALL</u> C1 T GRADE	LOWABLE INST. TIE-DOWN CC	ALLATION RO DNFIGURATIO	OF HEIGHT N TYPE		MPH, EXPOSURE	MIAMI TECH.	3611 NW 74TH ST MIAMI , FL (305) 693-7054	MIAMI TECH CUT FBC 7TH EDIT
TEGORY MUM ACE A OF T'S T FACE t <sup>2</sup> t <sup>2</sup>	A RISK CATEGO / II IS PER ASCO UNIT L HEIGHT W 29 in 1 36 in 2	ORY II STRUC E 7-16 JNIT VIDTH 15 in AT 27 in	C1 C1 T GRADE N/A	OWABLE INST TIE-DOWN CC C2 ≤ 200 FT ≤ 200 FT	ALLATION RO DNFIGURATIO C3 AT GR AT GR	OF HEIGHT N TYPE ADE ≤ ADE ≤	C4 200 FT 200 FT	MPH, EXPOSURE	MIAMI TECH.	3611 NW 74TH ST MIAMI , FL (305) 693-7054	MIAMI TECH CUT FBC 7TH EDIT
E WITH . TEGORY ACE A OF T'S T FACE t <sup>2</sup> t <sup>2</sup>	A RISK CATEG / II IS PER ASCI / II IS PER ASCI // II II IS PER ASCI // II IS PER ASC	ORY II STRUC E 7-16 JNIT VIDTH 15 in A1 27 in 36 in ≤	C1 C1 T GRADE N/A 5 120 FT	C2 S 200 FT S 200 FT S 200 FT S 200 FT S 200 FT	ALLATION RO DNFIGURATIO C3 AT GR AT GR ≤ 200	OF HEIGHT N TYPE ADE ≤ FT ≤	C4 200 FT 200 FT 200 FT	MPH, EXPOSURE		07/08/16 08/14/17 6/9/20 6/9/20 7054 7054	MIAMI TECH CUT FBC 7TH EDIT
MUM ACE AOF T'S T FACE t <sup>2</sup> t <sup>2</sup> t <sup>2</sup>	A RISK CATEG / II IS PER ASCI / II II IS PER ASCI / II IS	ORY II STRUC E 7-16 JNIT /IDTH 15 in AT 27 in	C1 C1 T GRADE N/A 5 120 FT T GRADE	_OWABLE INST. TIE-DOWN CC C2 ≤ 200 FT ≤ 200 FT ≤ 200 FT ≤ 200 FT	ALLATION RO DNFIGURATIO C3 AT GR AT GR ≤ 200 H ≤ 15	OF HEIGHT N TYPE ADE ≤ ADE ≤ FT ≤ FT ≤	C4 200 FT 200 FT 200 FT 200 FT	MPH, EXPOSURE	CHING DATE DISTORTING MIAMI TECH,	FLB         07/08/16         3611 NW 74TH ST           FLB         08/14/17         MIAMI , FL           RWN         6/9/20         (305) 693-7054	MIAMI TECH CUT FBC 7TH EDIT
MUM ACE AOF T'S T FACE t <sup>2</sup> t <sup>2</sup> t <sup>2</sup> t <sup>2</sup>	A RISK CATEG / II IS PER ASCI / II IS PER ASCI	ORY II STRUC E 7-16 JNIT /IDTH 15 in A1 27 in 36 in ≤ 36 in A1 36 in	C1 C1 T GRADE N/A 120 FT T GRADE N/A	_OWABLE INST. TIE-DOWN CC C2 ≤ 200 FT ≤ 200 FT ≤ 200 FT ≤ 200 FT ≤ 200 FT ≤ 200 FT	ALLATION RO DNFIGURATIO C3 AT GR AT GR ≤ 200 H ≤ 15 AT GR	OF HEIGHT N TYPE ADE ≤ ADE ≤ FT ≤ ADE ≤ ADE ≤	C4 200 FT 200 FT 200 FT 200 FT 200 FT 200 FT	MPH, EXPOSURE	CHING DATE DISTORTING MIAMI TECH,	FLB         07/08/16         3611 NW 74TH ST           FLB         08/14/17         MIAMI , FL           RWN         6/9/20         (305) 693-7054	MIAMI TECH CUT FBC 7TH EDIT
MUM ACE A OF T'S T FACE t <sup>2</sup> t <sup>2</sup> t <sup>2</sup> t <sup>2</sup>	A RISK CATEGY / II IS PER ASCA / II II IS PER ASCA / II I	ORY II STRUC E 7-16 JNIT VIDTH 15 in A1 27 in 36 in ≤ 36 in A1 36 in 36 in	C1 C1 T GRADE N/A 120 FT T GRADE N/A N/A		ALLATION RO DNFIGURATIO C3 AT GR AT GR 4 S 200 H ≤ 15 AT GR AT GR	OF HEIGHT N TYPE ADE ≤ ADE ≤ FT ≤ ADE ≤ ADE ≤ ADE ≤ ADE ≤ ADE ≤	C4 200 FT 200 FT 200 FT 200 FT 200 FT ≤ 60 FT	MPH, EXPOSURE	CHING DATE DISTORTING MIAMI TECH,	07/08/16 08/14/17 6/9/20 6/9/20 7054 7054	MIAMI TECH CUT FBC 7TH EDIT
TEGORY MUM ACE AOF T'S T FACE t <sup>2</sup> t <sup>2</sup> t <sup>2</sup> t <sup>2</sup> t <sup>2</sup> t <sup>2</sup> t <sup>2</sup>	A RISK CATEGO / II IS PER ASCO / II II IS PER ASCO / II II IS PER ASCO / II II IS PER ASCO / II II IS PER ASCO / II II IS PER ASCO / II II IS PER ASC	ORY II STRUC E 7-16 JNIT VIDTH 15 in A1 27 in 36 in ≤ 36 in A1 36 in 36 in 36 in	C1 C1 C1 T GRADE N/A 120 FT T GRADE N/A N/A N/A	TIE-DOWN CC C2 $\leq 200 \text{ FT}$ $\leq 40 \text{ FT}$ AT GRADE	ALLATION RO DNFIGURATIO C3 AT GR AT GR ≤ 200 H ≤ 15 AT GR N/A N/A	$\begin{array}{c c} OF HEIGHT \\ \hline N TYPE \\ \hline \end{array}$ $\begin{array}{c c} ADE \\ \leq \\ ADE \\ \leq \\ FT \\ \leq \\ ADE \\ ADE \\ \leq \\ ADE \\ AD$	C4 200 FT 200 FT 200 FT 200 FT 200 FT 200 FT 200 FT 60 FT GRADE	MPH, EXPOSURE	CHING DATE DISTORTING MIAMI TECH,	RWN         FLB         07/08/16         3611 NW         74TH         ST           LAO         FLB         08/14/17         MIAMI         FL         PL         CB         RMN         6/9/20         6/9/20         CB         705/16         CB         705/16         CB         705/24         CB         7	MIAMI TECH CUT FBC 7TH EDIT
E WITH . TEGORY MUM ACE A OF T'S T FACE t <sup>2</sup> t	A RISK CATEG / II IS PER ASC / II II IS PER ASC / II I	ORY II STRUC E 7-16 JNIT /IDTH 15 in A1 27 in 36 in ≤ 36 in A1 36 in 36 in 48 in 57	C1 C1 C1 T GRADE N/A T OFT T GRADE N/A N/A N/A N/A N/A	TIE-DOWN CC C2 $\leq 200 \text{ FT}$ $\leq 40 \text{ FT}$ AT GRADE AT GRADE	ALLATION RO DNFIGURATIO C3 AT GR AT GR 4 S200 H ≤ 15 AT GR 0// N// N// N//	$\begin{array}{c c} OF HEIGHT \\ N TYPE \\ \hline \\ N TYPE \\ \hline \\ ADE \\ \leq \\ FT \\ \leq \\ FT \\ \leq \\ ADE \\ \leq \\ ADE \\ \leq \\ ADE \\ \leq \\ A \\ AT \\ A \\ AT \\ A \\ AT \\ A \\ AT \\ A \\ A$	C4 200 FT 200 FT 200 FT 200 FT 200 FT 200 FT ≤ 60 FT GRADE GRADE	MPH, EXPOSURE	CHING DATE DISTORTING MIAMI TECH,	RWN         FLB         07/08/16         3611 NW         74TH         ST           LAO         FLB         08/14/17         MIAMI         FL         PL         CB         RMN         6/9/20         6/9/20         CB         705/16         CB         705/16         CB         705/24         CB         7	MIAMI TECH CUT FBC 7TH EDIT
WITH .           TEGORY           MUM           ACE           AOF           T'S           T FACE           t <sup>2</sup> ft <sup>2</sup> ft <sup>2</sup> ft <sup>2</sup>	A RISK CATEG / II IS PER ASC / II IS PER ASC // II	ORY II STRUC E 7-16 JNIT VIDTH 15 in A1 27 in 36 in ≤ 36 in A1 36 in 36 in 36 in	C1 C1 C1 T GRADE N/A S 120 FT T GRADE N/A N/A N/A N/A N/A N/A N/A	TIE-DOWN CC C2 C2 $\leq 200 \text{ FT}$ $\leq 40 \text{ FT}$ $H \leq 40 \text{ FT}$ AT  GRADE AT  GRADE AT  GRADE	ALLATION RO DNFIGURATIO C3 AT GR AT GR 4 S 200 H ≤ 15 AT GR N/A N/A N/A N/A	$\begin{array}{c c} OF HEIGHT \\ N TYPE \\ \hline \\ N TYPE \\ \hline \\ ADE \\ \leq \\ FT \\ \leq \\ FT \\ \leq \\ ADE \\ \leq \\ ADE \\ \leq \\ ADE \\ \leq \\ A \\ A$	C4 200 FT 200 FT 200 FT 200 FT 200 FT 200 FT ≤ 60 FT GRADE GRADE GRADE N/A	MPH, EXPOSURE	D DRWNI CHKD DATE LAO TSB 02/05/16 MIAMI TECH,	RWN         FLB         07/08/16         3611 NW         74TH         ST           LAO         FLB         08/14/17         MIAMI         FL         PL         CB         RMN         6/9/20         6/9/20         CB         705/16         CB         705/16         CB         705/24         CB         7	MIAMI TECH CUT FBC 7TH EDIT
E WITH . TEGORY MUM ACE A OF T'S T FACE t <sup>2</sup> t <sup>2</sup> t <sup>2</sup> t <sup>2</sup> t <sup>2</sup> t <sup>2</sup> t <sup>2</sup> t <sup>2</sup> ft <sup>2</sup> ft <sup>2</sup> ft <sup>2</sup> ft <sup>2</sup>	A RISK CATEG / II IS PER ASCI / II IS PER ASCI // II	ORY II STRUC E 7-16 JNIT /IDTH 15 in A1 27 in 36 in ≤ 36 in A1 36 in 36 in 36 in 36 in 48 in	C1 C1 C1 T GRADE N/A T OFT T GRADE N/A N/A N/A N/A N/A	TIE-DOWN CC C2 $\leq 200 \text{ FT}$ $\leq 40 \text{ FT}$ AT GRADE AT GRADE	ALLATION RO DNFIGURATIO C3 AT GR AT GR 4 S200 H ≤ 15 AT GR 0// N// N// N//	$\begin{array}{c c} OF HEIGHT \\ N TYPE \\ \hline \\ N TYPE \\ \hline \\ ADE \\ \leq \\ ADE \\ A \\ $	C4 200 FT 200 FT 200 FT 200 FT 200 FT 200 FT ≤ 60 FT GRADE GRADE	MPH, EXPOSURE	REMARKS DRWNICHKD DATE MIAMI TECH, MITISSUE LAO TEB 02/05/16	FLB         07/08/16         3611 NW 74TH ST           FLB         08/14/17         MIAMI , FL           RWN         6/9/20         (305) 693-7054	тны восшиент из тне ридрект у ог емсиневано ворнеза, AND SHALL NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN CONSENT OF EMCINEEDING EXPRESS, ATTENNTONS, MRITTEN CONSENT OF EMCINEEDING EXPRESS, ATTENNTON, FEBL 77TH ED/T PERMILTEN ADD INTUGATE ON COLINENT ARE NOT PERMILTEN ADD INTUGATE ON COLINENT ARE NOT PERMILTEN ADD INTUGATE ON COLINENT ARE NOT

## TABLE 3 PERMISSIBLE INSTALLATION HEIGHTS: Vult=170 MPH, EXPOSURE C

C2

≤ 200 FT

≤ 80 FT

H ≤ 15 FT

AT GRADE

AT GRADE

N/A

N/A

ALLOWABLE INSTALLATION ROOF HEIGHT TIE-DOWN CONFIGURATION TYPE

C3

AT GRADE

AT GRADE

≤ 200 FT

H ≤ 40 FT

AT GRADE

N/A

N/A

N/A

N/A

N/A

N/A

C4

≤ 200 FT

≤ 140 FT

H ≤ 30 FT

AT GRADE

AT GRADE

AT GRADE

N/A

(FOR USE WITH A RISK CATEGORY II STRUCTURE\*\*) RISK CATEGORY II IS PER ASCE 7-16

UNIT

WIDTH

15 in

27 in

36 in

36 in

36 in

36 in

36 in

48 in

48 in

48 in

48 in

C1

AT GRADE

AT GRADE

≤ 200 FT

H ≤ 30 FT

AT GRADE

N/A

N/A

N/A

N/A

N/A

N/A

UNIT

HEIGHT

29 in

36 in

48 in

48 in

48 in

48 in

48 in

60 in

60 in

60 in

60 in

MAXIMUM SURFACE AREA

OF UNIT'S

LARGEST FACE 6 ft<sup>2</sup>

9 ft²

4 ft<sup>2</sup>

6 ft²

9 ft²

12 ft<sup>2</sup>

16 ft²

20 ft<sup>2</sup>

25 ft<sup>2</sup>

30 ft<sup>2</sup>

36 ft<sup>2</sup>

solby

FL19731

BC\20-26324 -

(FOR USE WITH RISK CATEGOF	A RISK CATE	GORY II STRU		HE HIGH VELO		NE ZONE (HVH F-TOP HEIGHT	IZ)*) <sup>-</sup> (H)	MPH, EXPOSURE D	Contraction of the second	
SURF	1AXIMUM ACE AREA OF T'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	C1	C2	C3	C4		UNIT	11E 105 - 33442 999 SS.COM SS.COM
	6 FT <sup>2</sup>	29" MAX	15" MIN	N/A	H ≤ 200 FT	AT GRADE	H ≤ 200 FT			
	9 FT <sup>2</sup>	36" MAX	27" MIN	N/A	H ≤ 140FT	N/A	H ≤ 200 FT			SW 1ZTN AVE, SU ERFIELD BEACH, FL (954) 354-0660   (866) 396-9 TEAM@ENGINEERINGEXPRES ENGINEERINGEXPRESS.
	4 FT <sup>2</sup>			H ≤ 80 FT	H ≤ 200 FT	H ≤ 140FT	H ≤ 200 FT			
	6 FT <sup>2</sup>			AT GRADE	H ≤ 200 FT	AT GRADE	H ≤ 200 FT			
	9 FT <sup>2</sup>	48" MAX	36" MIN	N/A	H ≤ 160 FT	AT GRADE	H ≤ 200 FT		j <b>&gt; &gt;  </b>	
	12 FT <sup>2</sup>			N/A	H ≤ 30 FT	N/A	H ≤ 40 FT			
	16 FT <sup>2</sup>			N/A	AT GRADE	N/A	AT GRADE		o o	DEERFIE DEERFIE (954) TEAM@E ENGIN
	20 FT <sup>2</sup>	_		N/A	AT GRADE	N/A	AT GRADE			
	25 FT <sup>2</sup>	- 60" MAX	48" MIN	N/A	N/A	N/A	N/A			
	30 FT <sup>2</sup>			N/A	N/A	N/A	N/A		<u>  <u>8</u>                                 </u>	
	36 FT <sup>2</sup>			N/A	N/A	N/A	N/A			
									, INC.	
TABLE 4 (FOR USE WITH RISK CATEGOR)	A RISK CATEG	GORY II STRUC		ALLATIO	ON HEI	GHTS: v	/ult=170	MPH, EXPOSURE D	11 TECH, 3611 NW 74TH ST MIAMI , FL	(305) 693-7054 UTD TIE-DOWN CLIP CERTIFICATIONS NTTON (2020) PRODUCT APPROVAL FI #19731.2
(FOR USE WITH	A RISK CATEG	GORY II STRUC	TURE**)	LOWABLE INST		DF HEIGHT	/ult=170	MPH, EXPOSURE D	TECH, II NW 74TH SI MIAMI , FL	ΤΩĂ
(FOR USE WITH	A RISK CATEG Y II IS PER ASC	GORY II STRUC	TURE**)	LOWABLE INST	ALLATION RO	DF HEIGHT	/ult=170	MPH, EXPOSURE D	11 TECH, 3611 NW 74TH ST MIAMI , FL	(305) 693-7054 MIAMI TECH CUTD TIE-DOWN CLIP CI FBC 7TH EDITION (2020) PRODUC FI #19731.2
(FOR USE WITH RISK CATEGOR) MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE 6 ft <sup>2</sup>	A RISK CATEG Y II IS PER ASC UNIT HEIGHT V 29 in	GORY II STRUC E 7-16 UNIT VIDTH 15 in AT	C1	LOWABLE INST TIE-DOWN CO	ALLATION ROO	DF HEIGHT N TYPE		MPH, EXPOSURE D	MIAMI TECH, 3611 NW 74TH ST MIAMI , FL	MIAMI TECH CUTD FBC 7TH EDITIO
(FOR USE WITH RISK CATEGOR) MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE 6 ft <sup>2</sup> 9 ft <sup>2</sup>	A RISK CATEG Y II IS PER ASC UNIT HEIGHT 29 in 36 in	GORY II STRUC E 7-16 UNIT VIDTH 15 in AT 27 in	C1 C1 T GRADE N/A	LOWABLE INST TIE-DOWN CC C2 ≤ 200 FT ≤ 200 FT	ALLATION ROO DNFIGURATION C3	DF HEIGHT N TYPE ADE ≤ 2	C4	MPH, EXPOSURE D	MIAMI TECH, 3611 NW 74TH ST MIAMI , FL	MIAMI TECH CUTD FBC 7TH EDITIO
MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE 6 ft <sup>2</sup> 9 ft <sup>2</sup> 4 ft <sup>2</sup>	A RISK CATEG Y II IS PER ASC UNIT HEIGHT 29 in 36 in 48 in	GORY II STRUC E 7-16 UNIT VIDTH 15 in A1 27 in ≤ 36 in ≤	C1 C1 T GRADE N/A 5 120 FT	LOWABLE INST TIE-DOWN CC C2 ≤ 200 FT ≤ 200 FT ≤ 200 FT	ALLATION ROO DNFIGURATION C3 AT GR/ AT GR/ ≤ 200	DF HEIGHT N TYPE ADE ≤ 2 ADE ≤ 2 FT ≤ 2	C4 200 FT 200 FT 200 FT	MPH, EXPOSURE D	Date         Date           02/05/16         MIAMI TECH,           07/08/16         3611 NW 74TH ST           08/14/17         3611 NW 74TH ST	MIAMI TECH CUTD FBC 7TH EDITIO
FOR USE WITH RISK CATEGORN MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE 6 ft <sup>2</sup> 9 ft <sup>2</sup> 4 ft <sup>2</sup> 6 ft <sup>2</sup>	A RISK CATEG Y II IS PER ASC UNIT HEIGHT 29 in 36 in 48 in 48 in	GORY II STRUC E 7-16 UNIT VIDTH 15 in A1 27 in 36 in ≤ 36 in A1	C1 C1 T GRADE N/A 5 120 FT T GRADE	LOWABLE INST TIE-DOWN CC C2 ≤ 200 FT ≤ 200 FT ≤ 200 FT ≤ 200 FT	ALLATION ROO DNFIGURATION C3 AT GR/ AT GR/ ≤ 200 H ≤ 15	DF HEIGHT N TYPE ADE ≤ 2 ADE ≤ 2 FT ≤ 2 FT ≤ 2	C4 200 FT 200 FT 200 FT 200 FT	MPH, EXPOSURE D	Date         Date           02/05/16         MIAMI TECH,           07/08/16         3611 NW 74TH ST           08/14/17         3611 NW 74TH ST	MIAMI TECH CUTD FBC 7TH EDITIO
FOR USE WITH RISK CATEGORN MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE 6 ft <sup>2</sup> 9 ft <sup>2</sup> 4 ft <sup>2</sup> 6 ft <sup>2</sup> 9 ft <sup>2</sup>	A RISK CATEG Y II IS PER ASC UNIT HEIGHT 29 in 36 in 48 in 48 in 48 in	GORY II STRUC E 7-16 UNIT VIDTH 15 in A1 27 in 36 in ≤ 36 in A1 36 in	C1 C1 T GRADE N/A 120 FT T GRADE N/A	LOWABLE INST TIE-DOWN CC C2 ≤ 200 FT ≤ 200 FT ≤ 200 FT ≤ 200 FT ≤ 200 FT	ALLATION ROO DNFIGURATION C3 AT GR/ AT GR/ ≤ 200 H ≤ 15 AT GR/	DF HEIGHT N TYPE ADE $\leq$ ADE $\leq$ FT $\leq$ ADE $\leq$ ADE $\leq$	C4 200 FT 200 FT 200 FT 200 FT 200 FT	MPH, EXPOSURE D	CHKD         DATE         MIAMI         TECH,           TSB         02/05/16         MIAMI         TECH,           FLB         07/08/16         3611 NW 74TH ST           RWNN         6/9/20         MIAMI, FL	MIAMI TECH CUTD FBC 7TH EDITIO
FOR USE WITH RISK CATEGORN MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE 6 ft <sup>2</sup> 9 ft <sup>2</sup> 4 ft <sup>2</sup> 6 ft <sup>2</sup> 9 ft <sup>2</sup> 12 ft <sup>2</sup>	A RISK CATEG Y II IS PER ASC UNIT HEIGHT 29 in 36 in 48 in 48 in 48 in 48 in	GORY II STRUC E 7-16 UNIT VIDTH 15 in A1 27 in 36 in ≤ 36 in A1 36 in 36 in	C1 C1 T GRADE N/A 120 FT T GRADE N/A N/A	LOWABLE INST TIE-DOWN CC C2 ≤ 200 FT ≤ 200 FT ≤ 200 FT ≤ 200 FT ≤ 200 FT H ≤ 40 FT	ALLATION ROO DNFIGURATION C3 AT GR/ AT GR/ 4 ≤ 200 H ≤ 15 AT GR/ N/A	DF HEIGHT         N TYPE         ADE         ADE         FT         ST         ADE         ST         ADE         ST         ST         ADE         ST	C4 200 FT 200 FT 200 FT 200 FT 200 FT ≤ 60 FT	MPH, EXPOSURE D	Date         Date           02/05/16         MIAMI TECH,           07/08/16         3611 NW 74TH ST           08/14/17         3611 NW 74TH ST	MIAMI TECH CUTD FBC 7TH EDITIO
(FOR USE WITH RISK CATEGOR) MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE 6 ft <sup>2</sup> 9 ft <sup>2</sup> 4 ft <sup>2</sup> 6 ft <sup>2</sup> 9 ft <sup>2</sup> 12 ft <sup>2</sup> 16 ft <sup>2</sup>	A RISK CATEG Y II IS PER ASC UNIT HEIGHT 29 in 36 in 48 in 48 in 48 in 48 in	GORY II STRUC E 7-16 UNIT VIDTH 15 in A1 27 in 36 in ≤ 36 in A1 36 in 36 in 36 in 56 in 57	C1 C1 C1 T GRADE N/A 120 FT T GRADE N/A N/A N/A	LOWABLE INST TIE-DOWN CC C2 $\leq 200 \text{ FT}$ $\leq 40 \text{ FT}$ AT GRADE	ALLATION ROG DNFIGURATION C3 AT GR/ AT GR/ ≤ 200 H ≤ 15 AT GR/ N/A N/A	DF HEIGHT N TYPE	C4 200 FT 200 FT 200 FT 200 FT 200 FT ≤ 60 FT GRADE	MPH, EXPOSURE D	DRWN         DATE         DATE           LAO         TSB         02/05/16         MIAMI TECH,           RWN         FLB         07/08/16         3611 NW 74TH ST           LAO         FLB         08/14/17         3611 NW 74TH ST           CB         RWN         6/9/20         MIAMI TECH,	MIAMI TECH CUTD FBC 7TH EDITIO
(FOR USE WITH RISK CATEGOR) MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE 6 ft <sup>2</sup> 9 ft <sup>2</sup> 4 ft <sup>2</sup> 6 ft <sup>2</sup> 9 ft <sup>2</sup> 12 ft <sup>2</sup> 16 ft <sup>2</sup> 20 ft <sup>2</sup>	A RISK CATEG Y II IS PER ASC UNIT HEIGHT 29 in 36 in 48 in 48 in 48 in 48 in 48 in 60 in	GORY II STRUC E 7-16 UNIT VIDTH 15 in A1 27 in ≤ 36 in ≤ 36 in A1 36 in 36 in 48 36 in 548 in 550 560 560 560 560 560 560 560 560 560	C1 C1 C1 T GRADE N/A 120 FT T GRADE N/A N/A N/A N/A N/A	LOWABLE INST TIE-DOWN CC C2 $\leq 200 \text{ FT}$ $\leq 40 \text{ FT}$ AT GRADE AT GRADE	ALLATION ROO DNFIGURATION C3 C3 AT GR/ AT GR/ S200 H ≤ 15 AT GR/ N/A N/A N/A N/A	DF HEIGHT N TYPE	C4 200 FT 200 FT 200 FT 200 FT 200 FT 200 FT ≤ 60 FT GRADE GRADE	MPH, EXPOSURE D	DRWN         DATE         DATE           LAO         TSB         02/05/16         MIAMI TECH,           RWN         FLB         07/08/16         3611 NW 74TH ST           LAO         FLB         08/14/17         3611 NW 74TH ST           CB         RWN         6/9/20         MIAMI TECH,	MIAMI TECH CUTD FBC 7TH EDITIO
(FOR USE WITH RISK CATEGOR) MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE 6 ft <sup>2</sup> 9 ft <sup>2</sup> 4 ft <sup>2</sup> 6 ft <sup>2</sup> 9 ft <sup>2</sup> 12 ft <sup>2</sup> 16 ft <sup>2</sup> 20 ft <sup>2</sup> 25 ft <sup>2</sup>	A RISK CATEG Y II IS PER ASC Y II IS PER ASC UNIT HEIGHT 29 in 36 in 48 in 48 in 48 in 48 in 48 in 60 in 60 in	GORY II STRUC E 7-16 UNIT VIDTH 15 in A1 27 in 36 in ≤ 36 in A1 36 in 36 in 48 in 48 in 48 in 54	C1 C1 C1 T GRADE N/A 5 120 FT T GRADE N/A N/A N/A N/A N/A N/A	TIE-DOWN CO C2 $\leq 200 \text{ FT}$ $\leq 40 \text{ FT}$ AT GRADE AT GRADE N/A	ALLATION ROO DNFIGURATION C3 C3 AT GR/ AT GR/ S200 H ≤ 15 AT GR/ AT GR/ N/A N/A N/A N/A N/A	$\begin{array}{c c} \hline DF \ HEIGHT \\ N \ TYPE \\ \hline \\ \hline \\ ADE \\ \hline \\ FT \\ \hline \\ FT \\ \hline \\ ADE \\ \hline \\ FT \\ \hline \\ ADE \\ \hline \\ ADE \\ \hline \\ ADE \\ \hline \\ ADE \\ \hline \\ AT \\ \hline \\ \\ AT \\ \hline \hline \hline \\ AT \\ \hline \hline \hline \\ AT \\ \hline \hline \hline \hline \\ AT \\ \hline $	C4 200 FT 200 FT 200 FT 200 FT 200 FT 200 FT ≤ 60 FT GRADE GRADE GRADE N/A	MPH, EXPOSURE D	DRWN         DATE         DATE           LAO         TSB         02/05/16         MIAMI TECH,           RWN         FLB         07/08/16         3611 NW 74TH ST           LAO         FLB         08/14/17         3611 NW 74TH ST           CB         RWN         6/9/20         MIAMI TECH,	MIAMI TECH CUTD FBC 7TH EDITIO
(FOR USE WITH RISK CATEGOR) MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE 6 ft <sup>2</sup> 9 ft <sup>2</sup> 4 ft <sup>2</sup> 6 ft <sup>2</sup> 9 ft <sup>2</sup> 12 ft <sup>2</sup> 16 ft <sup>2</sup> 20 ft <sup>2</sup>	A RISK CATEG Y II IS PER ASC Y II IS PER ASC UNIT HEIGHT V 29 in 36 in 48 in 48 in 48 in 48 in 48 in 60 in 60 in 60 in	GORY II STRUC E 7-16 UNIT VIDTH 15 in A1 27 in ≤ 36 in ≤ 36 in A1 36 in 36 in 48 36 in 548 in 550 560 560 560 560 560 560 560 560 560	C1 C1 C1 T GRADE N/A 120 FT T GRADE N/A N/A N/A N/A N/A	LOWABLE INST TIE-DOWN CC C2 $\leq 200 \text{ FT}$ $\leq 40 \text{ FT}$ AT GRADE AT GRADE	ALLATION ROO DNFIGURATION C3 C3 AT GR/ AT GR/ S200 H ≤ 15 AT GR/ N/A N/A N/A N/A	ADE SI ADE SI ADE SI ADE SI FT SI ADE	C4 200 FT 200 FT 200 FT 200 FT 200 FT 200 FT ≤ 60 FT GRADE GRADE	MPH, EXPOSURE D	REMARKS         DRWN CHKD         DATE         DATE <thdate< th="">         DATE         DATE</thdate<>	ΤΩĂ

## TABLE 5 PERMISSIBLE INSTALLATION HEIGHTS: Vult=140 MPH, EXPOSURE B

(FOR USE WITH A RISK CATEGORY II STRUCTURE\*\*\*) RISK CATEGORY II IS PER ASCE 7-16

			ALLOWABLE INSTALLATION ROOF HEIGHT TIE-DOWN CONFIGURATION TYPE					
MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	C1	C2	СЗ	C4		
6 ft²	29 in	15 in	≤ 100 FT	≤ 200 FT	≤ 140 FT	≤ 200 FT		
9 ft²	36 in	27 in	≤ 80 FT	≤ 200 FT	≤ 100 FT	≤ 200 FT		
4 ft <sup>2</sup>	48 in	36 in	≤ 200 FT	≤ 200 FT	≤ 200 FT	≤ 200 FT		
6 ft²	48 in	36 in	≤ 200 FT	≤ 200 FT	≤ 200 FT	≤ 200 FT		
9 ft²	48 in	36 in	≤ 80 FT	≤ 200 FT	≤ 120 FT	≤ 200 FT		
12 ft²	48 in	36 in	H ≤ 30 FT	≤ 200 FT	H ≤ 40 FT	≤ 200 FT		
16 ft²	48 in	36 in	AT GRADE	≤ 200 FT	H ≤ 15 FT	≤ 200 FT		
20 ft <sup>2</sup>	60 in	48 in	AT GRADE	≤ 160 FT	AT GRADE	≤ 200 FT		
25 ft <sup>2</sup>	60 in	48 in	N/A	H ≤ 60 FT	AT GRADE	≤ 100 FT		
30 ft <sup>2</sup>	60 in	48 in	N/A	H ≤ 30 FT	N/A	H ≤ 40 FT		
36 ft <sup>2</sup>	60 in	48 in	N/A	H ≤ 15 FT	N/A	H ≤ 15 FT		

# TABLE 6 PERMISSIBLE INSTALLATION HEIGHTS: vult=140 MPH, EXPOSURE C

(FOR USE WITH A RISK CATEGORY II STRUCTURE\*\*\*) RISK CATEGORY II IS PER ASCE 7-16

			4		ATION ROOF HEIGH	T
MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	C1	C2	СЗ	C4
6 ft²	29 in	15 in	H ≤ 30 FT	≤ 200 FT	H ≤ 40 FT	≤ 200 FT
9 ft²	36 in	27 in	H ≤ 15 FT	≤ 200 FT	H ≤ 30 FT	≤ 200 FT
4 ft <sup>2</sup>	48 in	36 in	≤ 200 FT	≤ 200 FT	≤ 200 FT	≤ 200 FT
6 ft²	48 in	36 in	≤ 200 FT	≤ 200 FT	≤ 200 FT	≤ 200 FT
9 ft²	48 in	36 in	H ≤ 15 FT	≤ 200 FT	H ≤ 40 FT	≤ 200 FT
12 ft <sup>2</sup>	48 in	36 in	AT GRADE	≤ 200 FT	AT GRADE	≤ 200 FT
16 ft²	48 in	36 in	N/A	≤ 140 FT	AT GRADE	≤ 200 FT
20 ft <sup>2</sup>	60 in	48 in	N/A	H ≤ 40 FT	N/A	≤ 80 FT
25 ft²	60 in	48 in	N/A	H ≤ 15 FT	N/A	H ≤ 30 FT
30 ft²	60 in	48 in	N/A	AT GRADE	N/A	AT GRADE
36 ft²	60 in	48 in	N/A	AT GRADE	N/A	AT GRADE

### TABLE 7 PERMISSIBLE INSTALLATION HEIGHTS: Vult=140 MPH, EXPOSURE D

(FOR USE WITH A RISK CATEGORY II STRUCTURE\*\*\*) RISK CATEGORY II IS PER ASCE 7-16

			ALLOWABLE INSTALLATION ROOF HEIGHT TIE-DOWN CONFIGURATION TYPE					
MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	C1	C2	C3	C4		
6 ft <sup>2</sup>	29 in	15 in	AT GRADE	≤ 200 FT	H ≤ 15 FT	≤ 200 FT		
9 ft <sup>2</sup>	36 in	27 in	AT GRADE	≤ 200 FT	AT GRADE	≤ 200 FT		
4 ft <sup>2</sup>	48 in	36 in	≤ 200 FT	≤ 200 FT	≤ 200 FT	≤ 200 FT		
6 ft²	48 in	36 in	≤ 100 FT	≤ 200 FT	≤ 180 FT	≤ 200 FT		
9 ft²	48 in	36 in	AT GRADE	≤ 200 FT	H ≤ 15 FT	≤ 200 FT		
12 ft <sup>2</sup>	48 in	36 in	AT GRADE	≤ 200 FT	AT GRADE	≤ 200 FT		
16 ft <sup>2</sup>	48 in	36 in	N/A	≤ 80 FT	N/A	≤ 120 FT		
20 ft <sup>2</sup>	60 in	48 in	N/A	H ≤ 15 FT	N/A	H ≤ 40 FT		
25 ft <sup>2</sup>	60 in	48 in	N/A	AT GRADE	N/A	AT GRADE		
30 ft <sup>2</sup>	60 in	48 in	N/A	AT GRADE	N/A	AT GRADE		
36 ft <sup>2</sup>	60 in	48 in	N/A	N/A	N/A	AT GRADE		

\*\*\*AS AN EXAMPLE, THESE TABLES ARE PERMISSIBLE TO BE USED WITHIN BREVARD COUNTY. CHECK WITH LOCAL AUTHORITY HAVING JURISDICTION FOR THE APPLICABILITY OF THIS TABLE WITHIN CERTAIN FLORIDA COUNTIES.

	160 SW 12th AVE, SUITE 106 DEERFIELD BEACH, FL 33442 (954) 354-0560 (666) 396-999 (954) 354-0560 (666) 396-999 (954) 354-0560 (666) 396-9999 TEAM@ENGINEERINGEXPRESS.COM							
		3611 NW 7ATU CT		MIAMI, FL	(305) 693-7054 160 2	MIAMI TECH CUTD TIE-DOWN CLIP CERTIFICATIONS DEEI FBC 7TH EDITION (2020) PRODUCT APPROVAL TE FL#19731.2		
REMARKS DRWN CHKD DATE	VIT ISSUE   LAO   TSB   02/05/16	REV (ADD DETAILS) RWN FLB 07/08/16	TEV 2017 FBC UPDATE LAO FLB 08/14/17	REV 2020 FBC UPDATE CB RWN 6/9/20	-	THIS DOCUMENT IS THE PROPERTY OF ENGINEERING EXPRESS, INFULLION TRANSTICT OF ENGINEERING MARE TRANSTICULT WRITTEN CONSENT OF ENGINEERING EDATESS, ALTENTIONS, ADDITTONS, ON OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.		
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## STEEL TIE-DOWN CLIP