

Designed for attaching gable end trusses to wood top plates and masonry walls.

**HGA10** – Versatile wood-to-wood connector that satisfies high wind and seismic loading requirements.

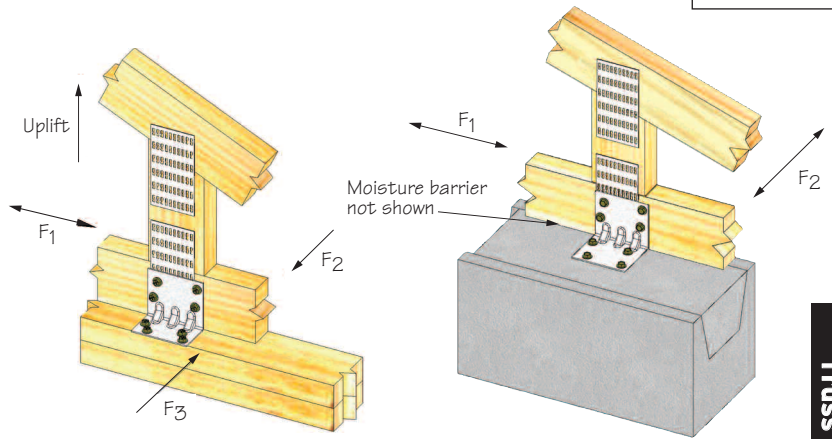
**HGAM10** – For installation into grouted concrete tie beam or masonry bond beam. Provides lateral and uplift resistance.

**Materials:** 14 gauge  
**Finish:** G90 galvanizing  
**Codes:** NER-532, FL819

**Installation:**

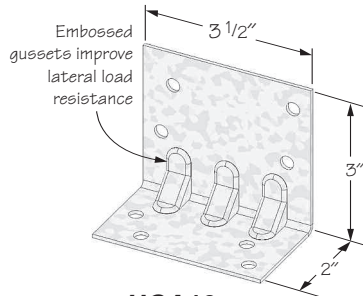
- Use all specified fasteners. See Product Notes, page 16.
- **HGAM10** – Install USP’s WS15 Wood Screws into the truss and drill holes for wedge bolts. Install wedge bolts into concrete block per manufacturer’s recommendation.
- **HGA10** – Install with USP’s WS3 Wood Screws into top plate, and WS15 Wood Screws into the truss.
- WS Wood Screws are included with **HGA10** angles.
- WS Wood Screws and Wedge bolts are included with **HGAM10** angles.

• **Moisture barrier may be required.**

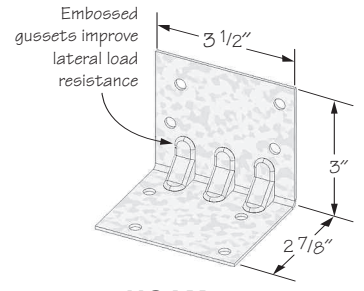


Typical **HGA10** installation

Typical **HGAM10** installation



**HGA10**



**HGAM10**

USP Stock No.	Ref. No.	Steel Gauge	Fastener Schedule <sup>2</sup>		Allowable Loads (Lbs.) <sup>1,2</sup>															
			Rafter/Truss	Plate <sup>4</sup>	DF-L / SP						S-P-F									
					F1	F2	F3	Uplift	F1	F2	F3	Uplift								
HGA10	HGA10	14	(4) WS15	(4) WS3	1320	1320	1565	1565	835	835	1285	1285	1110	1110	1315	1315	700	700	1080	1080
HGAM10	HGAM10	14	(4) WS15	(4) 1/4"	1365	1590	1675	1675	1310	1580	895	895	1170	1335	1675	1675	925	1115	895	895

1) Allowable loads are based on the 1997 NDS®.  
 2) Allowable loads have been increased 33-1/3% or 60% for wind or seismic loads; no further increase shall be permitted.  
 3) WS15 Wood Screws are 1/4" x 1-1/2" long and WS3 Wood Screws are 1/4" x 3" long.  
 4) Use Powers Fasteners 1/4" x 1-3/4" Wedge-Bolt® (included); or equal. Drill hole in concrete or masonry with 1/4" masonry drill.  
 Refer to manufacturer's literature for further information.

New products or updated product information are designated in red.

## HURRICANE/SEISMIC ANCHORS – HC520, HCPRS, HHCP2, & RT SERIES

These anchors tie trusses and rafters to top plates and may be used to tie wood framing members to resist uplift and lateral forces.

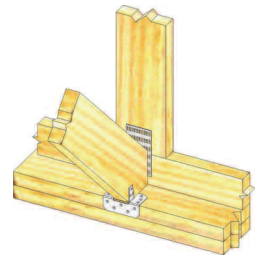
**Materials:** See chart

**Finish:** G90 galvanizing; RT7A-GC & RT15-GC – Gold Coat

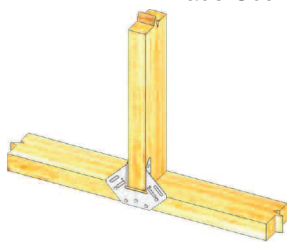
**Options:** HHCP2, RT3A, RT4, RT5, RT7, RT7A, RT10, RT15, RT16, RT16-2, and RT20 are available in Triple Zinc. To order, add TZ to stock number, as in **RT10-TZ**.

RT4, RT5, RT7, RT10, and RT16 are available in Stainless Steel. To order, add SS to stock number, as in **RT7-SS**.

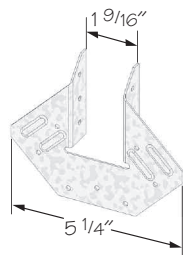
**Codes:** NER 505, NER 510, NER 564, ICBO 2039, SBCCI 2031C, L.A. City RR 23888 & RR 25303, FL565R-1, FL816, FL817, FL818, FL859R-1, FL3923R-1, Dade County, FL 05-0105.05 – RT7, RT10, RT15, RT16, RT20



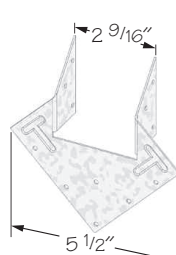
Typical **HC520** gable brace installation



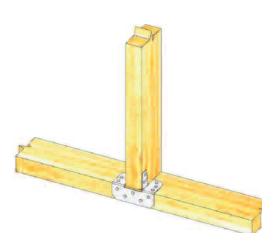
Typical **HCPRS** stud to plate installation



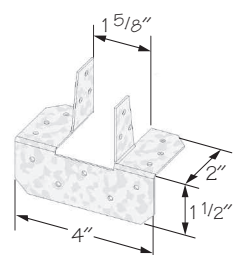
**HCPRS**



**HCPRS3**

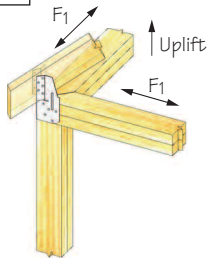


Typical **HC520** stud to plate installation

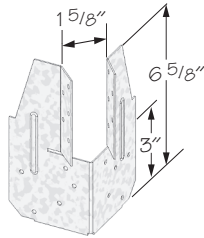


**HC520**

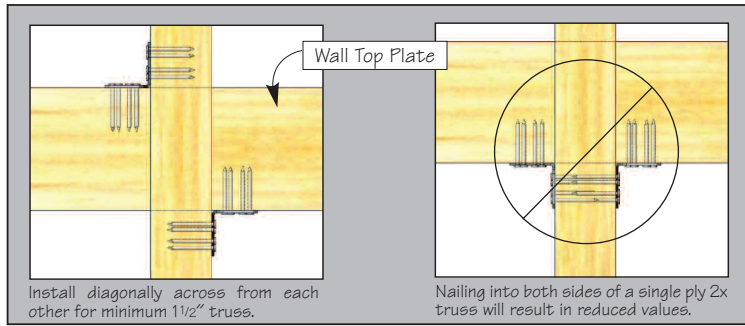
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**Typical HHCP2 truss/rafter to double plate corner installation**



**HHCP2**

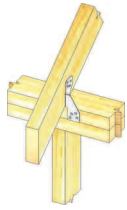


Install diagonally across from each other for minimum 1 1/2" truss.

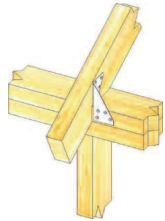
Nailing into both sides of a single ply 2x truss will result in reduced values.

**Hurricane Anchor installation to achieve twice the load (Top View)**

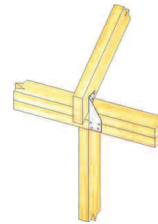
**Truss & Rafter**



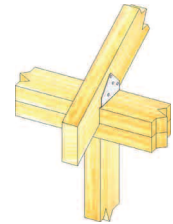
**Typical RT3A truss/rafter to plate installation**



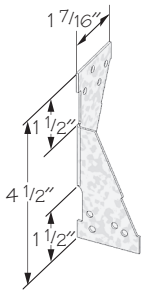
**Typical RT4 truss/rafter to plate installation**



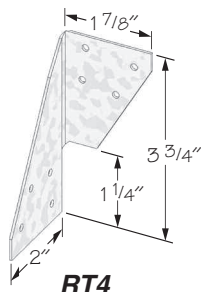
**Typical RT5 truss/rafter to double plate installation**



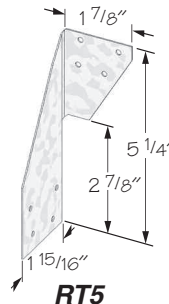
**Typical RT6 truss/rafter to double plate installation**



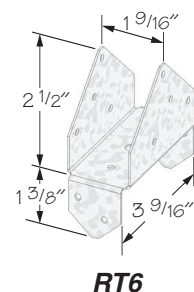
**RT3A**



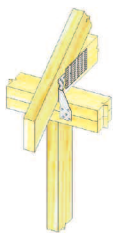
**RT4**



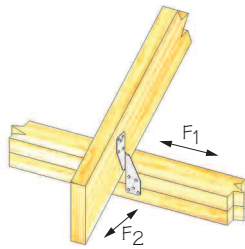
**RT5**



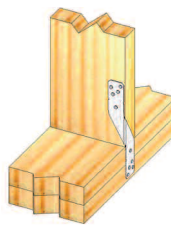
**RT6**



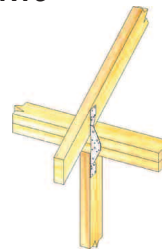
**Typical RT7 truss/rafter to double plate installation**



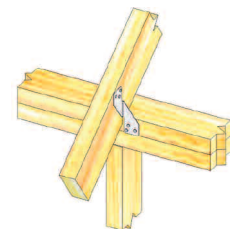
**Typical RT7A truss/rafter to double plate installation**



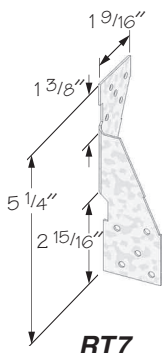
**Typical RT8A stud to double plate installation**



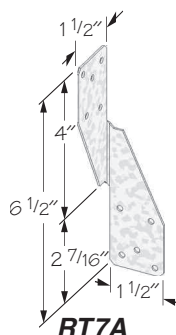
**Typical RT10 truss/rafter to double plate to stud installation**



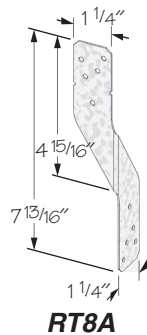
**Typical RT12A truss/rafter to plate installation**



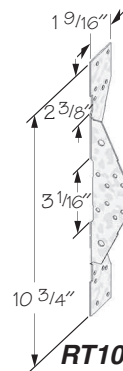
**RT7**



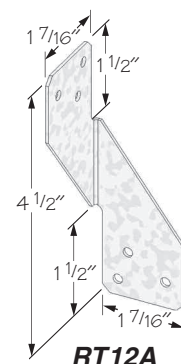
**RT7A**



**RT8A**

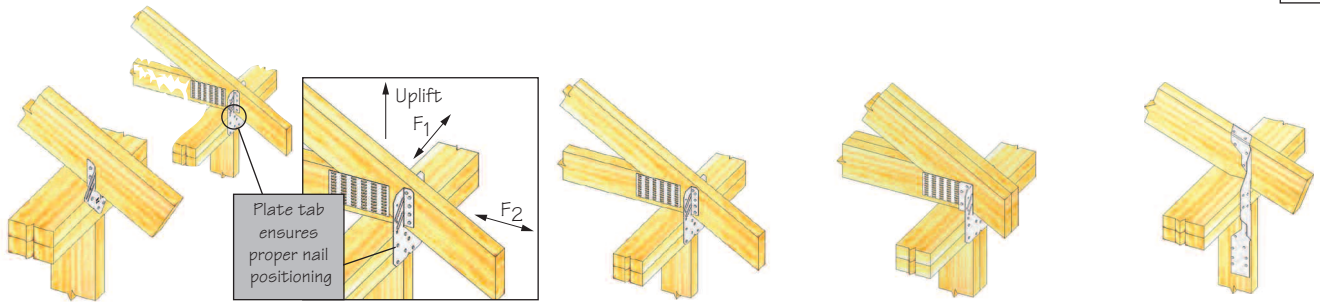


**RT10**



**RT12A**

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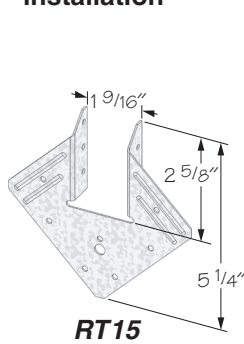
Typical RT15 truss/rafter to double plate installation

Typical RT16 truss/rafter to double plate installation

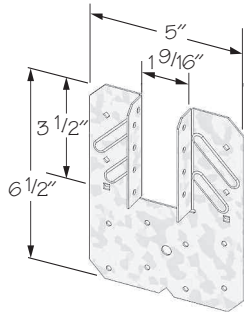
Typical RT16A truss/rafter to double plate installation

Typical RT16-2 truss/rafter to double plate installation

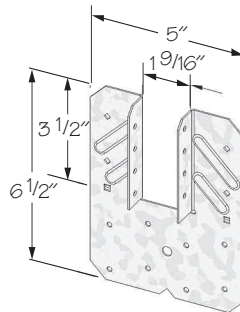
Typical RT20 truss/rafter to double plate to stud installation



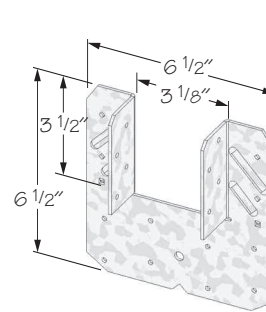
RT15



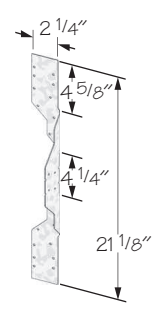
RT16A



RT16



RT16-2



RT20

**Installation:**

- Use all specified fasteners. See Product Notes, page 16.
- All nail holes must be filled with specified nails to achieve loads listed in the chart.
- Depending on pitch, birdsmouth notching may be required with some models to enable installers to fill all nail holes.
- Designer shall determine if solid blocking is required.

AVAILABLE IN  
**GOLD COAT**

In some applications rafter ties are required by the codes to connect roof assemblies to the wall below.  
**IRC 802.10.5, IBC 2308.10.1, UBC 2337.5.8.**

USP Stock No.	Ref. No.	Steel Gauge	Fastener Schedule <sup>2,3,4,5</sup>			Allowable Loads (Lbs.) <sup>1</sup>													
			Truss/Rafter	Plate	Stud	DF-L / SP						S-P-F							
						F1		F2		Uplift		F1		F2		Uplift			
						133%	160%	133% / 160%	133%	160%	133% / 160%	133%	160%	133% / 160%	133%	160%	133% / 160%		
RT3A	H3	18	(4) 8d	(4) 8d	--	135	135	135	505	610	505	610	135	135	135	430	520	430	520
RT4	H4	18	(4) 8d	(4) 8d	--	215	215	215	410	410	410	410	215	215	215	410	410	410	410
RT5	H5	18	(4) 8d	(4) 8d	--	260	260	260	505	540	505	540	260	260	260	430	520	430	520
RT6	HS24	18	(8) 10d x 1-1/2	(6) 10d x 1-1/2	--	800	800	800	665	665	665	665	690	690	690	575	575	575	575
RT7	H2.5	18	(5) 8d	(5) 8d	--	170	170	170	585	585	585	585	170	170	170	540	585	540	585
RT7A	H2.5A	18	(5) 8d	(5) 8d	--	200	200	200	635	670	635	670	200	200	200	540	650	540	650
<b>RT7A-GC</b>	--	18	(5) N8-GC	(5) N8-GC	--	200	200	200	635	670	635	670	200	200	200	540	650	540	650
RT8A	H8	18	(5) 10d x 1-1/2	(5) 10d x 1-1/2	--	190	190	190	745	775	635	760	190	190	190	645	775	540	650
RT10	H2	18	(6) 8d	(8) 8d	(6) 8d	170	170	170	585	585	585	585	170	170	170	540	585	540	585
RT12A	--	18	(3) 8d	(3) 8d	--	140	140	140	380	455	380	455	140	140	125	325	390	325	390
RT15	H1	18	(5) 8d x 1-1/2	(5) 8d	--	500	500	300	530	530	530	530	340	410	300	340	410	340	410
<b>RT15-GC</b>	--	18	(5) N8-GC	(5) N8-GC	--	500	500	300	530	530	530	530	340	410	300	340	410	340	410
RT16	H10	18	(8) 8d x 1-1/2	(8) 8d	--	645	645	650	1015	1030	1015	1030	545	645	650	865	1030	865	1030
RT16A	H14	18	(9) 10d x 1-1/2	(8) 10d	--	800	800	800	1215	1380	1015	1030	800	800	800	1045	1255	865	1030
RT16-2	H10-2	18	(8) 8d	(8) 8d	--	655	655	410	1015	1160	1015	1160	550	550	345	875	975	875	975
HHCP2	HCP2	18	(10) 10d x 1-1/2	(10) 10d x 1-1/2	--	370	370	--	800	800	800	800	370	370	--	800	800	800	800
HC520	GBC	18	--	(11) 8d	(6) 8d	410	410	450	515	515	515	515	355	355	390	445	445	445	445
HCPRS	--	18	--	(5) 8d	(6) 8d	235	235	395	540	540	540	540	200	200	340	465	465	465	465
HCPRS3	--	18	--	(6) 8d	(6) 8d	--	--	--	540	540	540	540	--	--	--	465	465	465	465
RT20	H7	16	(9) 10d x 1-1/2	(4) 10d	(9) 10d x 1-1/2	--	--	--	1200	1200	1140	1200	--	--	--	950	1140	890	1065

1) Allowable loads have been increased 33-1/3% or 60% for wind or seismic loads; no further increase shall be permitted.  
 2) 8d common nails may be substituted for 8d x 1-1/2 nails, and 10d common nails may be substituted for 10d x 1-1/2 nails.  
 3) 8d x 1-1/2 nails are 11 gauge (0.131" diameter) by 1-1/2" long.  
 4) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.  
 5) Minimum nail penetration shall be 1-5/16" for 8d nails and 1-1/2" for 10d nails.  
 New products or updated product information are designated in red.

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Truss & Rafter

USP Stock No.	Triple Zinc (TZ)	Hot-Dip Galvanized (HDG)	Stainless Steel (SS)	Gold Coat (GC)
<b>Fasteners / Anchors</b>				
AB1212-HDG		X		
AB1218-HDG		X		
AB126-HDG		X		
AB128-HDG		X		
AB5817-HDG		X		
BP1		X		
BP12		X		
BP34		X		
BP58		X		
BP582		X		
BP583		X		
BP78		X		
HBPS12		X		
HBPS34		X		
LBP12-TZ	X			
LBP34-TZ	X			
LBP58-TZ	X			
LBPS12-TZ	X			
LBPS58-TZ	X			
N8-GC				X
N8C-GC				X
N10-GC				X
N10C-GC				X
N16C-GC				X
NA11		X	X	
NA16D		X		
NA20D		X		
NA21		X		
NA25		X		
NA250		X		
NA9D		X		
STB16		X		
STB20		X		
STB24		X		
STB28		X		
STB34		X		
STB36		X		
STBL16		X		
STBL20		X		
STBL24		X		
STBL28		X		
STBL34		X		
WS15-GC				X
<b>Holdowns / Foundation Anchors</b>				
FA3	X			
HPA35		X		
PA18	X			
PA23	X			
PA28	X			
PA35	X			
ST1-TZ	X			
ST2-TZ	X			
TA51	X			
TA71	X			
TDL5	X			
TDL10	X			
TDX2	X	X		
TDX6		X		
TDX8		X		
<b>Embedded Truss Anchors</b>				
H1A20	X			
HTA24	X			
TA20	X			
TA24	X			

USP Stock No.	Triple Zinc (TZ)	Hot-Dip Galvanized (HDG)	Stainless Steel (SS)	Gold Coat (GC)
<b>Stud Plate Ties</b>				
RSPT4		X		
RSPT6		X		
RSPT6-2		X		
SPT4		X		
SPT6		X		
SPT22		X		
SPT24		X		
SPTH4		X		
SPTH6		X		
<b>Column / Post Bases</b>				
CBS44		X		
CBS66		X		
CBSQ44-TZ	X			
CBSQ46-TZ	X			
CBSQ66-TZ	X			
D44	X			
D46	X			
D66	X			
EBG44	X			
EPB4408		X		
KCB44		X		
KCB46		X		
KCB48		X		
KCB66		X		
KCB68		X		
KCB88		X		
KCB1010		X		
KCB1212		X		
PA44	X			
PA44E	X			X
PA46	X			
PA46E	X			X
PA66	X			
PA66E	X			X
PAU44	X			
PAU46	X			
PAU66	X			
PAU88	X			
WAS44	X			
WAS46	X			
WAS66	X			
WE44	X			
WE46	X			
WE66	X			
<b>Column / Post Caps</b>				
C44	X			
C46	X			
C66	X			
EPCM4416	X			
EPCM4616	X			
KCC44		X		
KCC46		X		
KCC64		X		
KCC66		X		
KECC44		X		
KECC46		X		
KECC64		X		
KECC66		X		
PB44-6	X			X
PB66-6	X			X
PBC44-TZ	X			
PBC66-TZ	X			

USP Stock No.	Triple Zinc (TZ)	Hot-Dip Galvanized (HDG)	Stainless Steel (SS)	Gold Coat (GC)
<b>Column / Post Caps</b>				
PBES44		X		
PBES66		X		
PBS44		X		
PBS66		X		
PCM44		X		
PCM4416		X		
PCM46		X		
PCM4616		X		
PCM66		X		
PCM6616		X		
<b>Joist Hangers</b>				
HUS26		X		
HUS28		X		
HUS28-2IF		X		
HUS210		X		
HUS210-2IF		X		
JUS24			X	X
JUS26			X	X
JUS26-2			X	X
JUS28			X	
JUS28-2			X	
JUS28-3			X	
JUS210			X	X
JUS210-2			X	X
JUS210-3			X	
JUS44			X	
JUS46			X	
JUS48			X	
JUS410			X	
JUS414			X	
LSSH15-TZ			X	
LSSH210			X	
LSSH31			X	
SKH26R/L				X
SKH28R/L				X
SKH210R/L				X
TMU26			X	
<b>Hurricane / Seismic Anchors</b>				
HHCP2		X		
LFTA6		X		
RT3A		X		
RT4		X		X
RT5		X		X
RT7		X		X
RT7A		X		X
RT10		X		X
RT15		X		X
RT16		X		X
RT16-2		X		
RT20		X		
<b>Truss Hangers</b>				
HJH28L/R		X		
MSH418		X		
MSH422		X		
THD26		X		
THD26-2		X		
THD210-2		X		

USP Stock No.	Triple Zinc (TZ)	Hot-Dip Galvanized (HDG)	Stainless Steel (SS)	Gold Coat (GC)
<b>Framing Plates &amp; Angles</b>				
A3		X		
AC5		X		
AC7		X		X
AC9		X		X
JA1		X		
MP3		X		
MP34		X		X
MP4F		X		
MP5		X		
MP7		X		X
MP9		X		X
MPA1		X		X
MPA1F		X		X
<b>Straps</b>				
KRPS18		X		
KRPS22		X		
L6		X		X
LSTA24				X
MSTA9		X		
MSTA12		X		X
MSTA15		X		X
MSTA18		X		X
MSTA21		X		
MSTA24		X		
MSTA30		X		
MSTA36		X		
PS218-HDG			X	
PS418-HDG			X	
PS720-HDG			X	
RS150		X		
RT24F		X		
T6		X		X
<b>Twist Straps</b>				
LTW12		X		X
LTW18		X		X
LTW20				X
MTW12		X		
MTW16		X		
MTW20		X		
MTW30		X		
RT16T		X		
RT24T		X		
<b>Miscellaneous</b>				
ANJ44S		X		
DC50-TZ		X		
CSH-TZ		X		
ERB24-TZ		X		
FB14-TZ		X		
FB16-TZ		X		
FB23-TZ		X		
FB240-TZ		X		
FRB24-TZ		X		
ICPL58		X		
ICPL516-TZ		X		
PRT2-TZ		X		
SCA9-TZ		X		X
SCA10-TZ		X		X
SDJT14-TZ		X		
SDPT5-TZ		X		
SDPT7-TZ		X		