

Face Mount Joist Hangers

U HANGERS AND INVERTED FLANGE U HANGERS (ULU, UL, ULP, ULP-IF, UM, UH, UH-IF, UMH, UHH & UHD SERIES)

PRODUCT FEATURES:

U-Hanger and Inverted Flange (IF) U-Hanger Series are face mount joist hangers used to resist gravity loads and uplift loads due to wind in one-, two- and three-ply joist assemblies in light-frame wood construction. These are used as wood framing connectors in accordance with IBC Section 2304.10.4 and IRC Section R301.1.3.

MATERIAL:

ULU Series* - 20 Gauge
 UL Series - 20 Gauge
 ULP & ULP-IF Series - 18 Gauge
 UM Series - 16 Gauge
 UH & UH-IF Series - 14 Gauge

COATING:

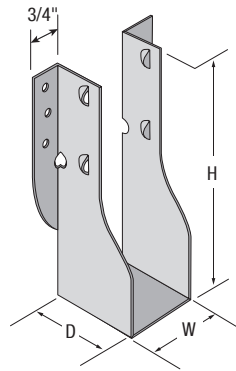
Galvanized (G185)

INSTALLATION:

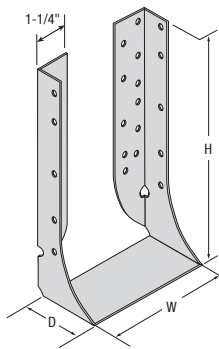
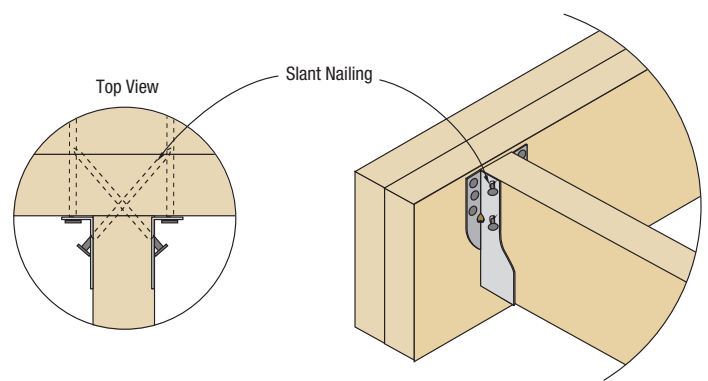
- Use all specified fasteners in schedule to achieve values indicated.
- All U-Hangers have slant nailing. These must be used to achieve published load values. The nails must be driven at an angle (approx. 41°) in the joist and into the header.
- For all Hangers, use 16d common nails (0.162 x 3-1/2") for hanger-to-header attachment.
- For all Inverted Flange (IF) Hangers, use 10d common nails (0.148 x 3") for hanger-to-joist attachment.
- Hangers are not allowed to be modified.
- Hangers are not designed for welded applications.

CODE COMPLIANCE:

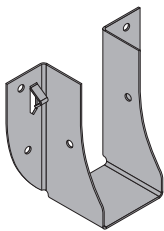
TER 1811-03; FL 3557



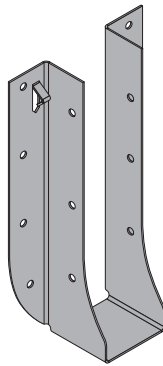
TYPICAL U HANGERS



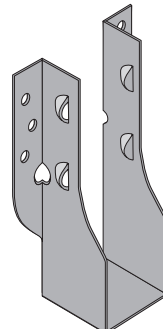
TYPICAL INVERTED FLANGE (IF) U HANGERS



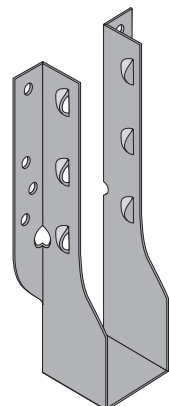
ULU24



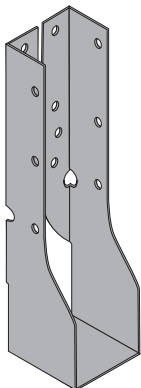
ULU28



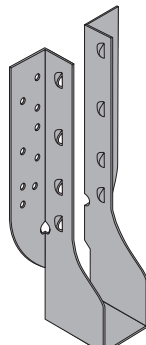
UL



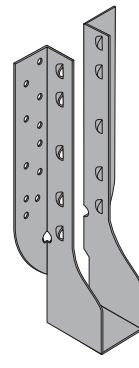
ULP



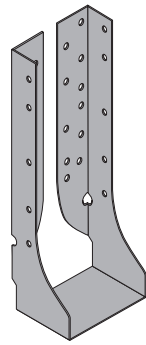
ULP-IF



UM



UH



UH-IF

NOTE: Similar for 2-ply & 3-ply joist hangers

ALLOWABLE LOADS FOR UL, ULP, ULP-IF, UM, UH & UH-IF SERIES HANGERS (LB)^{1,2}

Joist Size		Part No.				QUICKTIE PART ATTRIBUTES															
		QT	Reference No. ⁴		Steel Thick.	Hanger Dimensions (in.)			Fasteners				SP/DF-L (SG = 0.50)				HF/SPF (SG = 0.42)				
			Simpson® Hardware (SH)	MiTek® Hardware (MH)		Width, W	Height, H	Depth, D	Header		Joist		Floor	Roof	Roof	Uplift	Floor	Roof	Roof	Uplift	
Qty	Size	Qty	Size	1.0	1.15	1.25	1.6	1.0	1.15	1.25	1.6	1.0	1.15	1.25	1.6						
2x4	2x4	1-ply	ULU24	LU24	JL24	20 ga	1-9/16	3-1/8	1-1/2	4	16d	2	10d x 1-1/2	555	635	690	370	475	545	595	320
		1-ply	ULP24	LUS24, U24	JUS24, SUH24	18 ga	1-5/8	3-1/8	1-3/4	6	10d	2	10d or 10dx1-1/2	500	500	500	380	430	430	430	325
		2-ply	ULP24-2	LUS24-2, U24-2	JUS24-2, SUH24-2	18 ga	3-1/8	3-1/8	1-3/4	6	16d	2	10d or 10dx1-1/2	805	805	805	380	580	580	580	325
2x6	2x6	1-ply	ULU26	LU26	JL26	20 ga	1-9/16	4-3/4	1-1/2	6	16d	4	10d x 1-1/2	830	955	1,040	740	715	820	895	640
		1-ply	UL26	LUS26	JUS26	20 ga	1-5/8	5-3/8	1-3/4	6	16d	4	16d	1,215	1,215	1,215	510	965	965	965	440
		1-ply	ULP26	MUS26	MUS26	18 ga	1-5/8	5-3/8	1-3/4	6	16d	4	16d	1,230	1,415	1,435	670	1,065	1,110	1,110	580
		1-ply (IF)	ULP-IF26	LUC26Z	JL26IF-TZ	18 ga	1-5/8	5-3/8	1-3/4	6	16d	4	10d	830	955	1,040	745	715	825	895	640
		Rough	ULP26R	LU26R-18	-	18 ga	2	5-1/8	1-3/4	6	16d	4	16d	1,230	1,415	1,435	670	1,065	1,110	1,110	580
		1-ply	UM26	U26	SUH26	16 ga	1-5/8	5-3/8	2-1/4	6	16d	6	16d	1,445	1,540	1,540	600	1,245	1,245	1,245	525
		Rough	UM26R	U26R	SUH26R	16 ga	2	5-3/16	2-1/4	6	16d	6	16d	1,445	1,540	1,540	600	1,245	1,245	1,245	525
		1-ply	UH26	HU26	HD26	14 ga	1-5/8	5-3/8	2-1/4	6	16d	6	16d	1,465	1,540	1,540	1,155	1,205	1,205	1,205	1,005
		2-ply	UL26-2	-	-	20 ga	3-1/8	4-5/8	1-3/4	6	16d	4	16d	1,215	1,215	1,215	510	965	965	965	440
2x6	(2) 2x6	2-ply	ULP26-2	LUS26-2, LUS26-2Z	JUS26-2, JUS26-2TZ	18 ga	3-1/8	4-5/8	1-3/4	6	16d	4	16d	1,230	1,415	1,435	670	1,065	1,110	1,110	580
		2-ply (IF)	ULP-IF26-2	-	-	18 ga	3-1/8	4-5/8	1-3/4	6	16d	4	10d	830	955	1,040	745	715	825	895	640
		2-ply	UM26-2	U26-2	SUH26-2	16 ga	3-1/8	4-5/8	2-1/4	6	16d	6	16d	1,445	1,540	1,540	600	1,245	1,245	1,245	525
		2-ply	UH26-2	HUS26-2, HU26-2	HUS26-2, HD26-2	14 ga	3-1/8	4-5/8	2-1/4	6	16d	6	16d	1,465	1,540	1,540	1,170	1,205	1,205	1,205	1,015
		2-ply (IF)	UH-IF26-2	HUSC26-2	HUS26-2IF	14 ga	3-1/8	4-5/8	2-1/4	6	16d	6	10d	865	995	1,080	1,170	750	860	935	1,015
		3-ply	UL26-3	-	-	20 ga	4-5/8	3-7/8	1-3/4	6	16d	4	16d	1,215	1,215	1,215	510	965	965	965	440
		3-ply	ULP26-3	LUS26-3	JUS26-3	18 ga	4-5/8	3-7/8	1-3/4	6	16d	4	16d	1,230	1,415	1,435	670	1,065	1,110	1,110	580
		3-ply (IF)	ULP-IF26-3	-	-	18 ga	4-5/8	3-7/8	1-3/4	6	16d	4	10d	830	955	1,040	745	715	825	895	640
		3-ply	UM26-3	U26-3	SUH26-3	16 ga	4-5/8	3-7/8	2-1/4	6	16d	6	16d	1,445	1,540	1,540	600	1,245	1,245	1,245	525
2x8	(3) 2x8	3-ply	UH26-3	HU26-3	HD26-3	14 ga	4-5/8	3-7/8	2-1/4	6	16d	6	16d	1,465	1,540	1,540	1,155	1,205	1,205	1,205	1,005
		3-ply (IF)	UH-IF26-3	HUC26-3	HD26-3IF	14 ga	4-5/8	3-7/8	2-1/4	6	16d	6	10d	865	995	1,080	1,170	750	860	935	1,015
		1-ply	ULU28	LU28	JL28	20 ga	1-9/16	6-3/8	1-1/2	8	16d	6	10d x 1-1/2	1,105	1,275	1,385	1,115	950	1,095	1,190	955
		1-ply	UL28	LUS28, LUS28Z	JUS28, JUS28-TZ	20 ga	1-5/8	7-1/8	1-3/4	8	16d	6	16d	1,695	1,855	1,895	910	1,400	1,455	1,490	785
		1-ply	ULP28	MUS28	MUS28	18 ga	1-5/8	7-1/8	1-3/4	8	16d	6	16d	1,710	1,955	2,005	1,025	1,450	1,525	1,560	890
		1-ply (IF)	ULP-IF28	-	JL28IF-TZ	18 ga	1-5/8	7-1/8	1-3/4	8	16d	6	10d	1,110	1,275	1,385	930	955	1,100	1,195	805
		Rough	ULP28R	LU28R-18	-	18 ga	2	6-7/8	1-3/4	8	16d	6	16d	1,710	1,955	2,005	1,025	1,450	1,525	1,560	890
		1-ply	UM28	-	SUH28	16 ga	1-5/8	7-1/8	2-1/4	12	16d	6	16d	1,885	1,930	1,930	600	1,625	1,625	1,625	525
		Rough	UM28R	U26R	SUH28R	16 ga	2	6-15/16	2-1/4	12	16d	6	16d	1,885	1,930	1,930	600	1,625	1,625	1,625	525
2x8	(2) 2x8	1-ply	UH28	HU28	HD28	14 ga	1-5/8	7-1/8	2-1/4	12	16d	6	16d	1,865	1,960	1,985	1,155	1,495	1,525	1,550	1,005
		2-ply	UL28-2	-	-	20 ga	3-1/8	6-3/8	1-3/4	8	16d	6	16d	1,695	1,855	1,895	910	1,400	1,455	1,490	785
		2-ply	ULP28-2	LUS28-2, LUS28-2Z	JUS28-2, JUS28-2TZ	18 ga	3-1/8	6-3/8	1-3/4	8	16d	6	16d	1,710	1,955	2,005	1,025	1,450	1,525	1,560	890
		2-ply (IF)	ULP-IF28-2	-	-	18 ga	3-1/8	6-3/8	1-3/4	8	16d	6	10d	1,110	1,275	1,385	930	955	1,100	1,195	805
		2-ply	UM28-2	-	SUH28-2	16 ga	3-1/8	6-3/8	2-1/4	12	16d	6	16d	1,885	1,930	1,930	600	1,625	1,625	1,625	525
		2-ply	UH28-2	HUS28-2	HUS28-2	14 ga	3-1/8	6-3/8	2-1/4	12	16d	6	16d	1,865	1,960	1,985	1,155	1,495	1,525	1,550	1,005
		2-ply (IF)	UH-IF28-2	HUSC28-2, HUC28-2, HUC28-2Z	HUS28-2IF, HUS28-2IFTZ, HD28-2IF, HD28-2IFTZ	14ga	3-1/8	6-3/8	2-1/4	12	16d	6	10d	1,635	1,775	1,830	1,170	1,345	1,470	1,555	1,015
		3-ply	UL28-3	-	-	20 ga	4-5/8	5-5/8	1-3/4	8	16d	6	16d	1,695	1,855	1,895	910	1,400	1,455	1,490	785
		3-ply	ULP28-3	LUS28-3, LUS28-3Z	JUS28-3, JUS28-3TZ	18 ga	4-5/8	5-5/8	1-3/4	8	16d	6	16d	1,710	1,955	2,005	1,025	1,450	1,525	1,560	890
2x8	(3) 2x8	3-ply (IF)	ULP-IF28-3	-	-	18 ga	4-5/8	5-5/8	1-3/4	8	16d	6	10d	1,110	1,275	1,385	930	955	1,100	1,195	805
		3-ply	UM28-3	-	-	16 ga	4-5/8	5-5/8	2-1/4	12	16d	6	16d	1,885	1,930	1,930	600	1,625	1,625	1,625	525
		3-ply	UH28-3	-	HD28-3	14 ga	4-5/8	5-5/8	2-1/4	12	16d	6	16d	1,865	1,960	1,985	1,155	1,495	1,525	1,550	1,005
		3-ply (IF)	UH-IF28-3	-	HD28-3IF	14 ga	4-5/8	5-5/8	2-1/4	12	16d	6	10d	1,635	1,775	1,830	1,170	1,345	1,470	1,555	1,015

NOTES:

- Nails designated as 16d shall be 16d common nails (0.162" x 3.5", F_y = 90,000 psi), 10d shall be 10d common nails (0.148" x 3", F_y = 90,000 psi) and 10d x 1-1/2 shall be 0.148" x 1.5", F_y = 90,000 psi.
- Allowable loads are provided for load duration factor (C_D) of 1.0, 1.15, 1.25 and 1.6.
- Allowable loads labeled "Floor" and "Roof" represent gravity loads.
- These Reference Numbers above are for the purpose of enabling our customers to identify the QuickTie™ alternative to specified product names, but the attributes of the products references (particularly load values) may differ from the QuickTie™ part. Please note that product comparison via Reference Numbers is for general application comparison only. Reference Numbers should not be used as an apples-to-apples substitution tool. Customers are solely responsible for comparing specific load values, fastener schedules, anchoring requirements, material specifications, and other factors when determining the suitability of use of any particular product. QuickTie™ makes no claim, stated or implied, of suitability for purpose or qualification for use of our products that may be substituted for a specified product. Any specification, submittal, or change to a specified product should be approved in writing by the designer or Engineer of Record (EOR). MiTek® and Simpson Strong-Tie® are registered trademarks of their respective companies, with which QuickTie™ is unaffiliated, and neither of whom endorse or approve use of their product names in this catalog as "reference numbers".

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Face Mount Joist Hangers

ALLOWABLE LOADS FOR UL, ULP, ULP-IF, UM, UH & UH-IF SERIES HANGERS (LB)^{1,2,3}

Joist Size	Part No.				QUICKTIE PART ATTRIBUTES																
	QT	Reference No. ⁴		Steel Thick.	Hanger Dimensions (in.)			Fasteners				SP/DF-L (SG = 0.50)				HF/SPF (SG = 0.42)					
		Simpson® Hardware (SH)	MiTek® Hardware (MH)		Width, W	Height, H	Depth, D	Header		Joist		Floor	Roof	Roof	Uplift	Floor	Roof	Roof	Uplift		
								Qty	Size	Qty	Size									1.0	1.15
2x10	1-ply	UL210	LUS210, U210	JL210, JUS210, SUH210, SUH210-TZ	20 ga	1-5/8	9-1/8	1-3/4	10	16d	8	16d	2,175	2,495	2,575	1,315	1,835	1,940	2,010	1,130	
	1-ply	ULP210	-	-	18 ga	1-5/8	9-1/8	1-3/4	10	16d	8	16d	2,190	2,495	2,575	1,375	1,835	1,940	2,010	1,200	
	1-ply (IF)	ULP-IF210	LUC210Z	JL210IF-TZ	18 ga	1-5/8	9-1/8	1-3/4	10	16d	8	10d	1,385	1,590	1,730	1,115	1,195	1,375	1,490	965	
	Rough	ULP210R	LU210R-18	-	18 ga	2	8-7/8	1-3/4	10	16d	8	16d	2,190	2,495	2,575	1,375	1,835	1,940	2,010	1,200	
	Rough	UM210R	U210R	SUH210R	16 ga	2	8-15/16	2-1/4	18	16d	8	16d	2,320	2,320	2,320	1,065	2,005	2,005	2,005	925	
	1-ply	UH210	HU210	HD210	14 ga	1-5/8	9-1/8	2-1/4	18	16d	8	16d	2,265	2,375	2,425	1,565	1,780	1,850	1,890	1,365	
(2) 2x10	2-ply	UL210-2	-	-	20 ga	3-1/8	8-3/8	1-3/4	10	16d	8	16d	2,175	2,495	2,575	1,315	1,835	1,940	2,010	1,130	
	2-ply	ULP210-2	LUS210-2, LUS210-2Z	JUS210-2, JUS210-2TZ	18 ga	3-1/8	8-3/8	1-3/4	10	16d	8	16d	2,190	2,495	2,575	1,375	1,835	1,940	2,010	1,200	
	2-ply (IF)	ULP-IF210-2	-	-	18 ga	3-1/8	8-3/8	1-3/4	10	16d	8	10d	1,385	1,590	1,730	1,115	1,195	1,375	1,490	965	
	2-ply	UM210-2	U210-2	SUH210-2	16 ga	3-1/8	8-3/8	2-1/4	18	16d	8	16d	2,320	2,320	2,320	1,065	2,005	2,005	2,005	925	
	2-ply	UH210-2	HUS210-2	HUS210-2	14 ga	3-1/8	8-3/8	2-1/4	18	16d	8	16d	2,265	2,375	2,425	1,565	1,780	1,850	1,890	1,365	
	2-ply (IF)	UH-IF210-2	HUSC210-2Z, HUC210-2, HUC210-2Z	HUS210-2IFTZ, HD210-2, IF HD210-2IFTZ	14 ga	3-1/8	8-3/8	2-1/4	18	16d	8	10d	2,400	2,555	2,585	1,560	1,945	2,085	2,180	1,355	
(3) 2x10	3-ply	UL210-3	-	-	20 ga	4-5/8	7-5/8	1-3/4	10	16d	8	16d	2,175	2,495	2,575	1,315	1,835	1,940	2,010	1,130	
	3-ply	ULP210-3	LUS210-3, LUS210-3Z	JUS210-3, JUS210-3TZ	18 ga	4-5/8	7-5/8	1-3/4	10	16d	8	16d	2,190	2,495	2,575	1,375	1,835	1,940	2,010	1,200	
	3-ply (IF)	ULP-IF210-3	-	-	18 ga	4-5/8	7-5/8	1-3/4	10	16d	8	10d	1,385	1,590	1,730	1,115	1,195	1,375	1,490	965	
	3-ply	UM210-3	U210-3	SUH210-3	16 ga	4-5/8	7-5/8	2-1/4	18	16d	8	16d	2,320	2,320	2,320	1,065	2,005	2,005	2,005	925	
	3-ply	UH210-3	HU210-3, HU210-3Z	HD210-3	14 ga	4-5/8	7-5/8	2-1/4	18	16d	8	16d	2,265	2,375	2,425	1,565	1,780	1,850	1,890	1,365	
	3-ply (IF)	UH-IF210-3	HUC210-3, HUC210-3Z	HD210-3IF, HD210-3IFTZ	14 ga	4-5/8	7-5/8	2-1/4	18	16d	8	10d	2,400	2,555	2,585	1,560	1,945	2,085	2,180	1,355	
2x12	1-ply	UL212	-	-	20 ga	1-5/8	10-3/16	1-3/4	10	16d	10	16d	1,570	1,570	1,570	1,715	1,265	1,265	1,265	1,475	
		ULP212	-	-	18 ga	1-5/8	10-3/16	1-3/4	10	16d	10	16d	2,265	2,265	2,265	1,730	1,825	1,825	1,825	1,510	
		UH212	HU212	HD212	14 ga	1-5/8	10-3/16	2-1/4	22	16d	10	16d	3,060	3,210	3,310	1,975	2,355	2,490	2,575	1,720	
	(2) 2x12	2-ply	UL212-2	-	-	20 ga	3-1/8	9-7/16	1-3/4	10	16d	10	16d	1,570	1,570	1,570	1,715	1,265	1,265	1,265	1,475
		2-ply	ULP212-2	-	-	18 ga	3-1/8	9-7/16	1-3/4	10	16d	10	16d	2,265	2,265	2,265	1,730	1,825	1,825	1,825	1,510
		2-ply	UH212-2	HUS212-2	HUS212-2	14 ga	3-1/8	9-7/16	2-1/4	22	16d	10	16d	3,060	3,210	3,310	1,975	2,355	2,490	2,575	1,720
	(3) 2x12	2-ply	UH-IF212-2	HUSC212-2, HUC212-2	HUS212-2IF, HD212-2IF	14 ga	3-1/8	9-7/16	2-1/4	22	16d	10	10d	3,170	3,335	3,335	1,950	2,540	2,695	2,800	1,690
		3-ply	UL212-3	-	-	20 ga	4-5/8	8-11/16	1-3/4	10	16d	10	16d	1,570	1,570	1,570	1,715	1,265	1,265	1,265	1,475
		3-ply	ULP212-3	-	-	18 ga	4-5/8	8-11/16	1-3/4	10	16d	10	16d	2,265	2,265	2,265	1,730	1,825	1,825	1,825	1,510
		3-ply	UH212-3	HU212-3	HD212-3	14 ga	4-5/8	8-11/16	2-1/4	22	16d	10	16d	3,060	3,210	3,310	1,975	2,355	2,490	2,575	1,720
		3-ply	UH-IF212-3	HUC212-3	HD212-3IF	14 ga	4-5/8	8-11/16	2-1/4	22	16d	10	10d	3,170	3,335	3,335	1,950	2,540	2,695	2,800	1,690

NOTES:

- Nails designated as 16d shall be 16d common nails (0.162" x 3.5", F_y = 90,000 psi) and 10d shall be 10d common nails (0.148" x 3", F_y = 90,000 psi).
- Allowable loads are provided for load duration factor (C_D) of 1.0, 1.15, 1.25 and 1.6.
- Allowable loads labeled "Floor" and "Roof" represent gravity loads.
- These Reference Numbers above are for the purpose of enabling our customers to identify the QuickTie™ alternative to specified product names, but the attributes of the products references (particularly load values) may differ from the QuickTie™ part. Please note that product comparison via Reference Numbers is for general application comparison only. Reference Numbers should not be used as an apples-to-apples substitution tool. Customers are solely responsible for comparing specific load values, fastener schedules, anchoring requirements, material specifications, and other factors when determining the suitability of use of any particular product. QuickTie™ makes no claim, stated or implied, of suitability for purpose or qualification for usage of our products that may be substituted for a specified product. Any specification, submittal, or change to a specified product should be approved in writing by the designer or Engineer of Record (EOR). MiTek® and Simpson Strong-Tie® are registered trademarks of their respective companies, with which QuickTie™ is unaffiliated, and neither of whom endorse or approve use of their product names in this catalog as "reference numbers".

Continued on next page.

ALLOWABLE LOADS FOR UL, ULP, ULP-IF, UM, UH & UH-IF SERIES HANGERS (LB)^{1,2,3}

Joist Size		Part No.			Steel Thick.	Hanger Dimensions (in.)			Fasteners				SP/DF-L (SG = 0.50)				HF/SPF (SG = 0.42)					
		QT	Reference No. ⁴			Width, W	Height, H	Depth, D	Header		Joist		Floor	Roof	Roof	Uplift	Floor	Roof	Roof	Uplift		
			Simpson® Hardware (SH)	MiTek® Hardware (MH)					Qty	Size	Qty	Size									1.0	1.15
3 x	3x6	1-ply	ULP36	LUS36, LUS36Z	JUS36, JUS36-TZ	18 ga	2-9/16	4-7/8	1-3/4	6	16d	4	16d	1,230	1,415	1,435	670	1,065	1,110	1,110	580	
		1-ply	UM36	U36	SUH36	16 ga	2-9/16	4-7/8	2-1/4	6	16d	6	16d	1,445	1,540	1,540	600	1,245	1,245	1,245	525	
		1-ply	UH36	HU36	HD36	14 ga	2-9/16	4-7/8	2-1/4	6	16d	6	16d	1,465	1,540	1,540	1,155	1,205	1,205	1,205	1,005	
		1-ply (IF)	UH-IF36	HUC36	HD36IF	14 ga	2-9/16	4-7/8	2-1/4	6	16d	6	10d	865	995	1,080	1,170	750	860	935	1,015	
	3x8	1-ply	ULP38	-	-	JUS38	18 ga	2-9/16	6-5/8	1-3/4	8	16d	6	16d	1,710	1,955	2,005	1,025	1,450	1,525	1,560	890
		1-ply	UM38	-	-	-	16 ga	2-9/16	6-5/8	2-1/4	12	16d	6	16d	1,885	1,930	1,930	600	1,625	1,625	1,625	525
		1-ply	UH38	HU38	HD38	-	14 ga	2-9/16	6-5/8	2-1/4	12	16d	6	16d	1,865	1,960	1,985	1,155	1,495	1,525	1,550	1,005
		1-ply (IF)	UH-IF38	HUC38	HD38IF	-	14 ga	2-9/16	6-5/8	2-1/4	12	16d	6	10d	1,635	1,775	1,830	1,170	1,345	1,470	1,555	1,015
	3x10	1-ply	ULP310	LUS310	JUS310	-	18 ga	2-9/16	8-5/8	1-3/4	10	16d	8	16d	2,190	2,495	2,575	1,375	1,835	1,940	2,010	1,200
		1-ply	UM310	U310	SUH310	-	16 ga	2-9/16	8-5/8	2-1/4	18	16d	8	16d	2,320	2,320	2,320	1,065	2,005	2,005	2,005	925
		1-ply	UH310	HU310	HD310	-	14 ga	2-9/16	8-5/8	2-1/4	18	16d	8	16d	2,265	2,375	2,425	1,565	1,780	1,850	1,990	1,365
		1-ply (IF)	UH-IF310	HUC310	HD310IF	-	14 ga	2-9/16	8-5/8	2-1/4	18	16d	8	10d	2,400	2,555	2,585	1,560	1,945	2,085	2,180	1,355
3x12	1-ply	ULP312	-	-	-	18 ga	2-9/16	9-11/16	1-3/4	10	16d	10	16d	2,265	2,265	2,265	1,730	1,825	1,825	1,825	1,510	
	1-ply	UH312	HU312	HD312	-	14 ga	2-9/16	9-11/16	2-1/4	22	16d	10	16d	3,060	3,210	3,310	1,975	2,355	2,490	2,575	1,720	
	1-ply (IF)	UH-IF312	HUC312	HD312IF	-	14 ga	2-9/16	9-11/16	2-1/4	22	16d	10	10d	3,170	3,335	3,335	1,950	2,540	2,695	2,800	1,690	
4 x	4x6	1-ply	ULP46	LUS46, LUS46Z	JUS46, JUS46-TZ	18 ga	3-9/16	4-3/8	1-3/4	6	16d	4	16d	1,230	1,415	1,435	670	1,065	1,110	1,110	580	
		1-ply	UM46	U46	SUH46	-	16 ga	3-9/16	4-3/8	2-1/4	6	16d	6	16d	1,445	1,540	1,540	600	1,245	1,245	1,245	525
		Rough	UM46R	U46R	SUH46R	-	16 ga	4	4-3/16	2-1/4	6	16d	6	16d	1,445	1,540	1,540	600	1,245	1,245	1,245	525
		1-ply	UH46	HUS46	HUS46	-	14 ga	3-9/16	4-3/8	2-1/4	6	16d	6	16d	1,465	1,540	1,540	1,170	1,205	1,205	1,205	1,015
		1-ply (IF)	UH-IF46	HUSC46	HUS46IF	-	14 ga	3-9/16	4-3/8	2-1/4	6	16d	6	10d	865	995	1,080	1,170	750	860	935	1,015
	4x8	1-ply	ULP48	LUS48, LUS48Z	JUS48, JUS48-TZ	-	18 ga	3-9/16	6-1/8	1-3/4	8	16d	6	16d	1,710	1,955	2,005	1,025	1,450	1,525	1,560	890
		1-ply	UM48	-	-	-	16 ga	3-9/16	6-1/8	2-1/4	12	16d	6	16d	1,885	1,930	1,930	600	1,625	1,625	1,625	525
		Rough	UM48R	-	-	-	16 ga	4	5-15/16	2-1/4	12	16d	6	16d	1,885	1,930	1,930	600	1,625	1,625	1,625	525
		1-ply	UH48	HUS48	HUS48	-	14 ga	3-9/16	6-1/8	2-1/4	12	16d	6	16d	1,900	1,960	1,985	1,380	1,495	1,525	1,550	1,195
		1-ply (IF)	UH-IF48	HUSC48	HUS48IF	-	14 ga	3-9/16	6-1/8	2-1/4	12	16d	6	10d	1,635	1,775	1,830	1,170	1,345	1,470	1,555	1,015
	4x10	1-ply	ULP410	LUS410, LUS410Z	JUS410, JUS410-TZ	-	18 ga	3-9/16	8-1/8	1-3/4	10	16d	8	16d	2,190	2,495	2,575	1,375	1,835	1,940	2,010	1,200
		1-ply	UM410	U410	SUH410	-	16 ga	3-9/16	8-1/8	2-1/4	18	16d	8	16d	2,320	2,320	2,320	1,065	2,005	2,005	2,005	925
Rough		UM410R	U410R	SUH410R	-	16 ga	4	7-15/16	2-1/4	18	16d	8	16d	2,320	2,320	2,320	1,065	2,005	2,005	2,005	925	
1-ply		UH410	HUS410	HUS410	-	14 ga	3-9/16	8-1/8	2-1/4	18	16d	8	16d	2,265	2,375	2,425	1,565	1,780	1,850	1,890	1,365	
1-ply (IF)		UH-IF410	HUSC410	HUS410IF	-	14 ga	3-9/16	8-1/8	2-1/4	18	16d	8	10d	2,400	2,555	2,585	1,560	1,945	2,085	2,180	1,355	
4x12	1-ply	ULP412	-	-	-	18 ga	3-9/16	9-3/16	1-3/4	10	16d	10	16d	2,265	2,265	1,730	1,730	1,825	1,825	1,825	1,510	
	Rough	ULP412R	-	-	-	18 ga	4	9	1-3/4	10	16d	10	16d	2,265	2,265	1,730	1,730	1,825	1,825	1,825	1,510	
	1-ply	UH412	HUS412	HUS412	-	14 ga	3-9/16	9-3/16	2-1/4	22	16d	10	16d	3,060	3,210	3,310	1,975	2,355	2,490	2,575	1,720	
	1-ply (IF)	UH-IF412	HUSC412	HUS412IF	-	14 ga	3-9/16	9-3/16	2-1/4	22	16d	10	10d	3,170	3,335	3,335	1,950	2,540	2,695	2,800	1,690	

NOTES:

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