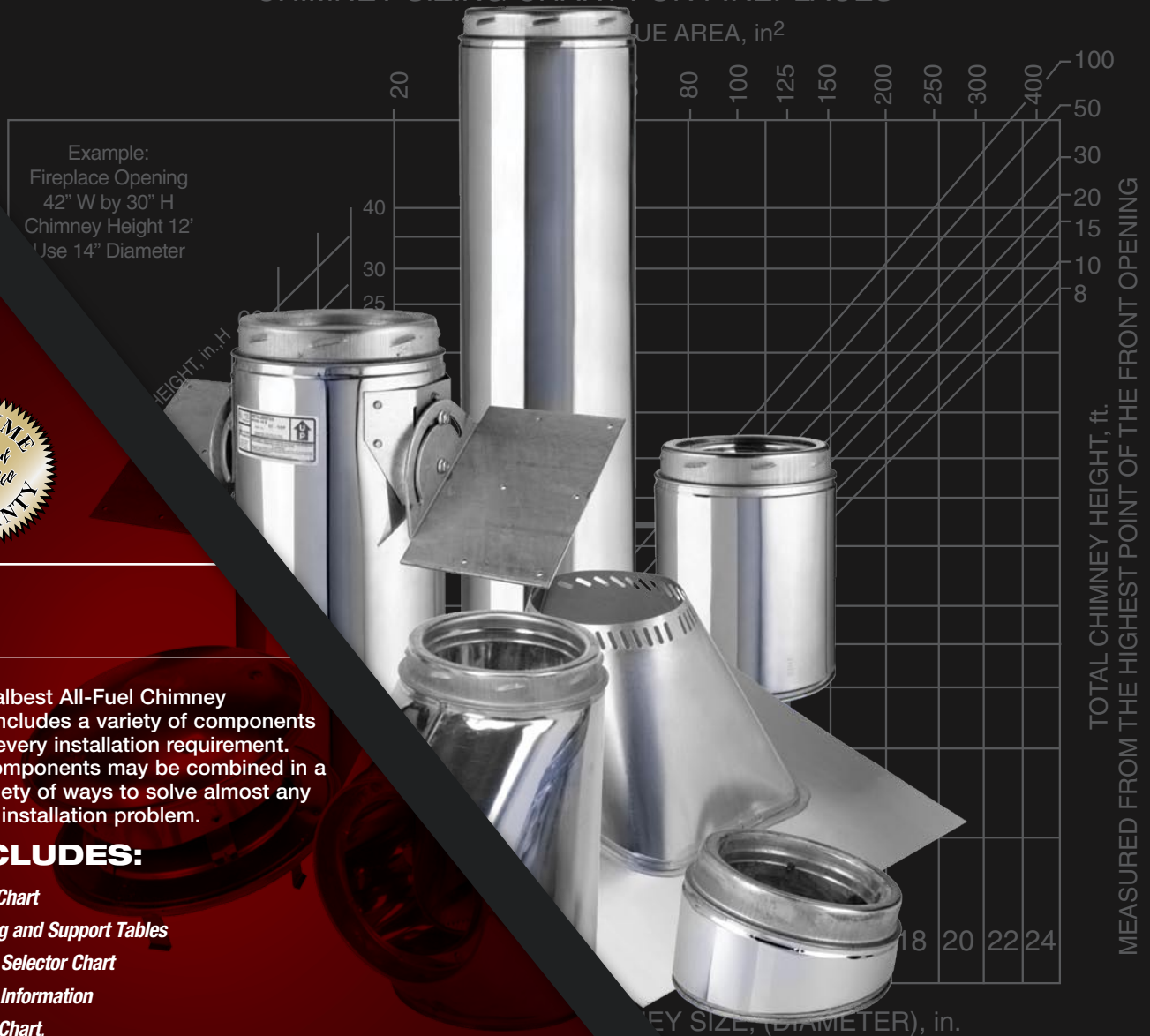


METALBEST
CHIMNEY & VENTING SYSTEMS

All-Fuel Chimney Systems

CHIMNEY SIZING CHART FOR FIREPLACES



The Metalbest All-Fuel Chimney system includes a variety of components to meet every installation requirement. These components may be combined in a wide variety of ways to solve almost any chimney installation problem.

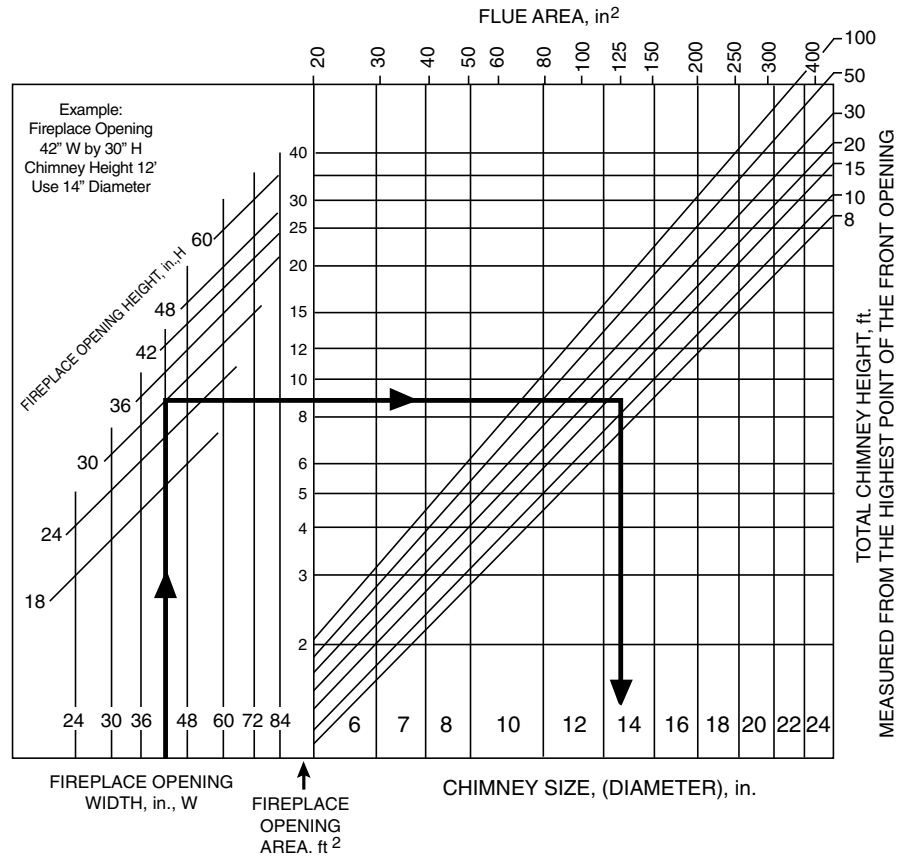
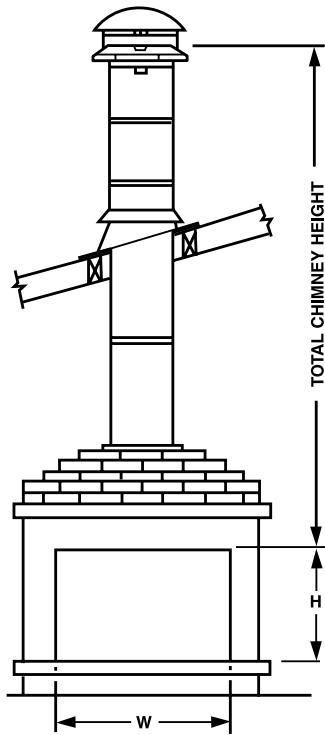
INCLUDES:

- Sizing Chart
- Framing and Support Tables
- Length Selector Chart
- Listing Information
- Height Chart.
- Cathedral Clearance Chart
- Offset Chart



MCS SIZING CHART

Fireplace Chimney Sizing Chart



Chimney Sizing for Woodburning Stoves and Room Heaters

Use the stove outlet size or follow the instructions furnished with the appliance. **Offsets not to exceed 30° from vertical in the U.S.A.**

MCS FRAMING / SUPPORTS TABLES

Framing / Supports:

All Selkirk Supports are designed to carry four times the combined weight of each system at maximum allowable height.

FRAMING TABLE TO MAINTAIN 2" AIR SPACE CLEARANCE

CHIMNEY SIZE	5"	6"	7"	8"	10"	12"	14"
Ceiling or Finish Support	11-1/4" x 11-1/4"	12-1/4" x 12-1/4"	13-1/4" x 13-1/4"	14-1/4" x 14-1/4"	16-1/4" x 16-1/4"	18-1/4" x 18-1/4"	20-1/4" X 20-1/4"
Ceiling Penetrations	11" x 11"	12" x 12"	13" x 13"	14" x 14"	16" x 16"	18" x 18"	20" x 20"
Floor Openings	"	"	"	"	"	"	"
Roof Openings	"	"	"	"	"	"	"
Wall Openings	"	"	"	"	"	"	"

* All framing dimensions may be up to 1/2" more, but not less than the above values. Check support dimensions before using.

SUPPORT TABLE MAX. HEIGHT		SIZE	
		5", 6", 7", 8" FEET OF CHIMNEY	10", 12", 14" FEET OF CHIMNEY
SUPPORT TYPE	PART NO.		
Anchor Plate	AP	85	85
Finish Or Ceiling Support	FSP, CSP	50	50
Insulated Tee	IT	50	40
Wall Support Kit	WSK	See Sheet S-5	40
Roof Support (A)	RSP, RSK	30	30
Interior Resupport	IR	18	18
Support Box	SB	20	—

NOTE: (A) 20 feet of chimney may be suspended below a roof support with all joints securely threaded, using locking bands or screws.

Sloped ceilings and roofs will not have a square opening, but need to maintain 2". The table only works on flat roof +/- or ceiling penetrations.

MCS LENGTH SELECTION CHART

Pipe Length Selector Chart

Feet	Inches	Total in Inches	Pipe Length						
			6	9	12	18	24	36	48
			Installed Height						
			4 3/4	7 3/4	10 3/4	16 3/4	22 3/4	34 3/4	46 3/4
	4 3/4	4 3/4	1						
	7 3/4	7 3/4		1					
	10 3/4	10 3/4			1				
1	1 1/2	12 1/2	1	1					
1	4 3/4	16 3/4					1		
1	6 1/2	18 1/2		1	1				
1	10 3/4	22 3/4						1	
1	11 1/4	23 1/4	1	1	1				
2	10 3/4	34 3/4							1
2	11 1/4	35 1/4		1	1	1			
3	3 1/2	39 1/2	1						1
3	6 1/2	42 1/2		1					1
3	9 1/2	45 1/2			1				1
3	10 3/4	46 3/4							1
4	2 1/4	50 1/4			1	1	1		
4	3 1/2	51 1/2					1		1
4	3 1/2	51 1/2	1						1
4	6 1/2	54 1/2		1					1
4	9 1/2	57 1/2			1				1
5	3 1/2	63 1/2					1		1
5	9 1/2	69 1/2						1	1
5	9 1/2	69 1/2						2	
6	9 1/2	81 1/2						1	1
7	2 1/4	86 1/4					1		2
7	8 1/4	92 1/4						1	2
7	8 1/4	92 1/4						1	2
7	9 1/2	93 1/2							2
8	8 1/4	104 1/4					1		2
9	2 1/4	110 1/4							2
9	8 1/4	116 1/4						1	2
10	8 1/4	128 1/4							2
9	7	115			1				3
10	1	121					1		3
10	7	127						1	3
11	8 1/4	140 1/4							3
12	7	151			1				3
13	1	157					1		3
13	7	163						1	3
14	7	175							4
11	7	139							4
12	11 3/4	155 3/4					1		4
13	5 3/4	161 3/4						1	4
15	7	187							4
16	11 3/4	203 3/4					1		4
17	5 3/4	209 3/4						1	4
18	5 3/4	221 3/4							5
14	5 3/4	173 3/4							5
16	4 1/2	196 1/2						1	5
19	5 3/4	233 3/4							5
21	4 1/2	256 1/2						1	5
22	4 1/2	268 1/2							6
17	4 1/2	208 1/2							6
19	3 1/4	231 1/4						1	6
23	4 1/2	280 1/2							6
25	3 1/4	303 1/4						1	6
26	3 1/4	315 1/4							6



IMPORTANT

This document references All-Fuel Chimney systems with maximum test temperatures under Underwriters Laboratories Safety Standard for Factory-Built Chimneys

ULTRA-TEMP® HT
GALVA-TEMP® HT

Diameter Sizes: 5", 6", 7" & 8"
 Part Identification: Letter UT and GT
 Listing: UL 103 HT
 Clearances: 2" of Airspace to Combustibles
 Temperature Ratings: 2100°F (Maximum Test 10 min.)
 1400°F (Maximum for 60 min.)
 1000°F (Maximum Continuous Operating Temperatures)

ULTRA-TEMP®
GALVA-TEMP®

Diameter Sizes: 10", 12", 14", 16", 18", 20", 22" & 24"
 Part Identification: Letter U and G
 Listing: UL 103
 Clearances: 2" of Airspace to Combustibles
 Temperature Ratings: 1700°F (Maximum Test 10 min.)
 1400°F (Maximum for 60 min.)
 1000°F (Maximum Continuous Operating Temperatures)

MCS HEIGHT CHART

Chimney Height Above Roof

Requirement #1: The chimney must extend not less than 3ft. above the highest point at which the chimney comes in contact with the roof

Requirement #2: The chimney must extend not less than 2ft. above the highest roof surface or structure within a horizontal distance of 10ft.

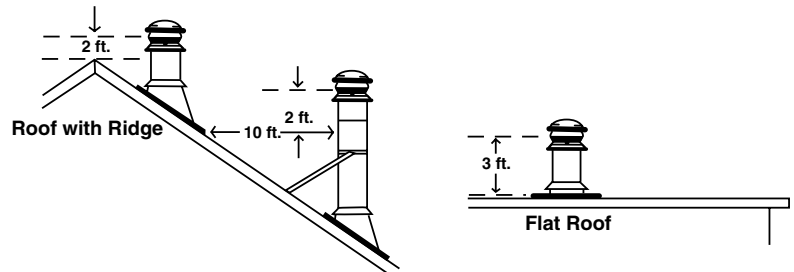
CHIMNEY HEIGHT CHART TO MEET THE 3, 2, 10 FOOT RULE ABOVE THE ROOF												
DISTANCE FROM PEAK	PITCH OF ROOF											
	1/12	2/12	3/12	3/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
CHIMNEY HEIGHT ABOVE ROOF (INCHES)												
10'	36	44	54	64	74	84	94	104	114	124	134	144
9'	36	42	51	60	69	78	87	96	105	114	123	132
8'	36	40	48	56	64	72	80	88	96	104	112	120
7'	36	38	45	52	59	66	73	80	87	94	101	108
6'	36	36	42	48	54	60	66	72	78	84	90	96
5'	36	36	39	44	49	54	59	64	69	74	79	84
4'	36	36	36	40	44	48	52	56	60	64	68	72
3'	36	36	36	36	39	42	45	48	51	54	57	60
2'	36	36	36	36	34	36	38	40	42	44	46	48
1'	36	36	36	36	36	36	36	36	36	36	36	36

Step 1 = Multiply the upper part from the pitch of roof by the # of feet away from the peak

Step 2 = Add 24" to your calculation to meet requirement #2

Step 3 = Height of chimney required to extend above the roof line

*Measurements in Grey highlights have been moved to 36" to meet requirement #1



MCS CATHEDRAL CLEARANCE CHART

CATHEDRAL CEILING SUPPORT BOX

CONNECTOR PIPE CLEARANCE REQUIREMENTS FROM SLOPED CEILING												
CLEARANCE TO SLOPED CEILING	PITCH OF ROOF											
	12/12	11/12	10/12	9/12	8/12	7/12	6/12	5/12	4/12	3/12	2/12	1/12
CHIMNEY INTO ROOM												
Single Wall - 18 inches	18	16.5	15	13.5	12	10.5	9	8	6	4.5	3.5	3.5
Ceiling box 1" into room	17	15.5	14	12.5	11	9.5	8	7	5	3.5	3.5	3.5
Ceiling box 2" into room	16	14.5	13	11.5	10	8.5	7	6	4	3.5	3.5	3.5
Ceiling box 3" into room	15	13.5	12	10.5	9	7.5	6	5	3.5	3.5	3.5	3.5
Double Wall - 6 inches	6	5.5	5	4.5	4	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Ceiling box 1" into room	5	4.5	4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Ceiling box 2" into room	4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Ceiling box 3" into room	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5

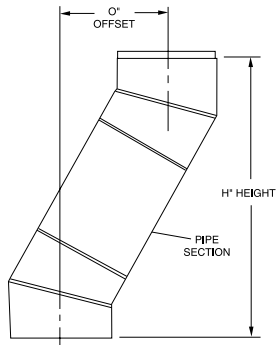
Measurements in Grey highlights have been changed to 3.5" to meet US minimum requirements

	SINGLE WALL	DSP
Step 1 = Multiply the upper part of the pitch of ceiling by required clearance	7 X 18 = 126	5 X 6 = 30
Step 2 = Divide amount by lower part of the pitch of roof	126 ÷ 12 = 10.5	30 ÷ 12 = 2.5
Step 3 = Chimney length which must extend into the room	10.5 inches	2.5 inches

Example 1 - Roof pitch is 7/12 using single wall connector pipe with the cathedral box flush with sloped ceiling.

Example 2 - Roof pitch is 5/12 using DSP with cathedral box flush with sloped ceiling

Chimney Offset Table



O = Offset; H = Height

Part No.	2 Elbows w/o Pipe		2 Elbows + 6" Section		2 Elbows + 9" Section		2 Elbows + 12" Section		2 Elbows + 18" Section		2 Elbows + 24" Section		2 Elbows + 36" Section		2 Elbows + 48" Section	
	O	H	O	H	O	H	O	H	O	H	O	H	O	H	O	H
5GT/UT - EL 15°	0.93	7.03	2.16	11.62	2.94	14.52	N/A	N/A	5.72	23.21	N/A	N/A	9.92	40.60	N/A	N/A
6GT/UT - EL 15°	1.04	7.88	2.27	12.47	3.05	15.37	3.82	18.26	5.38	24.06	6.92	29.85	10.03	41.25	13.03	53.04
7GT/UT - EL 15°	1.00	7.62	2.23	12.21	3.01	15.11	3.78	18.00	5.34	23.80	6.89	29.59	10.00	41.19	13.10	52.78
8GT/UT - EL 15°	0.97	7.36	2.20	11.95	2.98	14.85	3.75	17.74	5.31	23.54	6.85	29.33	9.96	40.93	13.07	52.52
*5GT/UT - EL 30°	3.64	13.59	6.02	17.70	7.52	20.30	9.02	22.90	12.02	28.10	15.02	33.29	21.02	43.69	27.02	54.08
*6GT/UT - EL 30°	4.08	15.23	6.45	19.34	7.96	21.94	9.45	24.54	12.45	29.74	15.45	34.93	21.45	45.33	27.45	55.72
*7GT/UT - EL 30°	3.95	14.73	6.33	18.84	7.83	21.44	9.33	24.04	12.33	29.24	15.33	34.43	21.33	44.83	27.33	55.22
*8GT/UT - EL 30°	3.81	14.23	6.19	18.34	7.69	20.94	9.19	23.54	12.19	28.74	15.19	33.93	21.19	44.33	27.19	54.72
5GT/UT - EL 30°	3.67	13.75	6.05	17.86	7.55	20.46	N/A	N/A	12.05	28.26	N/A	N/A	21.05	43.84	N/A	N/A
6GT/UT - EL 30°	3.82	14.26	6.20	18.37	7.70	20.97	9.19	23.57	12.20	28.76	15.20	33.96	21.20	44.35	27.20	54.75
7GT/UT - EL 30°	3.96	14.76	6.34	18.87	7.84	21.47	9.33	24.07	12.34	29.26	15.34	34.46	21.34	44.85	27.34	55.25
8GT/UT - EL 30°	4.09	15.26	6.47	19.37	7.97	21.97	9.46	24.57	12.46	29.76	15.47	34.96	21.47	45.35	27.47	55.75
10GT/UT - EL 15°	1.24	9.43	2.47	14.02	3.25	16.92	4.02	19.81	5.58	25.61	7.12	31.40	10.23	43.00	N/A	N/A
12GT/UT - EL 15°	1.00	7.72	2.23	12.31	3.01	15.21	3.78	18.10	5.33	23.90	6.88	29.69	9.99	41.28	N/A	N/A
14GT/UT - EL 15°	1.06	8.25	2.29	12.84	3.07	15.74	3.84	18.63	5.39	24.43	6.95	30.22	10.05	41.82	N/A	N/A
10GT/UT - EL 30°	3.92	15.18	6.30	19.29	7.80	21.89	9.30	24.49	12.30	29.70	15.30	34.88	21.30	45.27	N/A	N/A
12GT/UT-EL30°	3.92	14.63	6.30	18.74	7.80	21.34	9.30	23.93	12.30	29.14	15.30	34.33	21.29	44.72	N/A	N/A
14GT/UT-EL30°	4.19	15.63	6.57	19.74	8.07	22.34	9.56	24.93	12.57	30.14	15.57	35.33	21.56	45.72	N/A	N/A
16GTL-EL30°	6.30	24.70	8.65	28.80	N/A	N/A	11.68	34.02	14.68	39.22	17.68	44.42	23.68	54.81	N/A	N/A
18GTL-EL30°	6.55	25.70	8.90	29.80	N/A	N/A	11.92	35.02	14.92	40.22	17.90	45.42	23.90	55.81	N/A	N/A
20GTL-EL30°	6.80	26.70	9.20	30.80	N/A	N/A	12.20	36.02	15.20	41.22	18.20	46.42	24.20	56.81	N/A	N/A
22GTL-EL30°	7.13	27.70	9.45	31.80	N/A	N/A	12.46	37.02	15.45	42.22	18.45	47.42	24.45	57.81	N/A	N/A
24GTL-EL30°	7.35	28.70	9.75	32.80	N/A	N/A	12.75	38.02	15.75	43.22	18.75	48.42	24.75	58.81	N/A	N/A

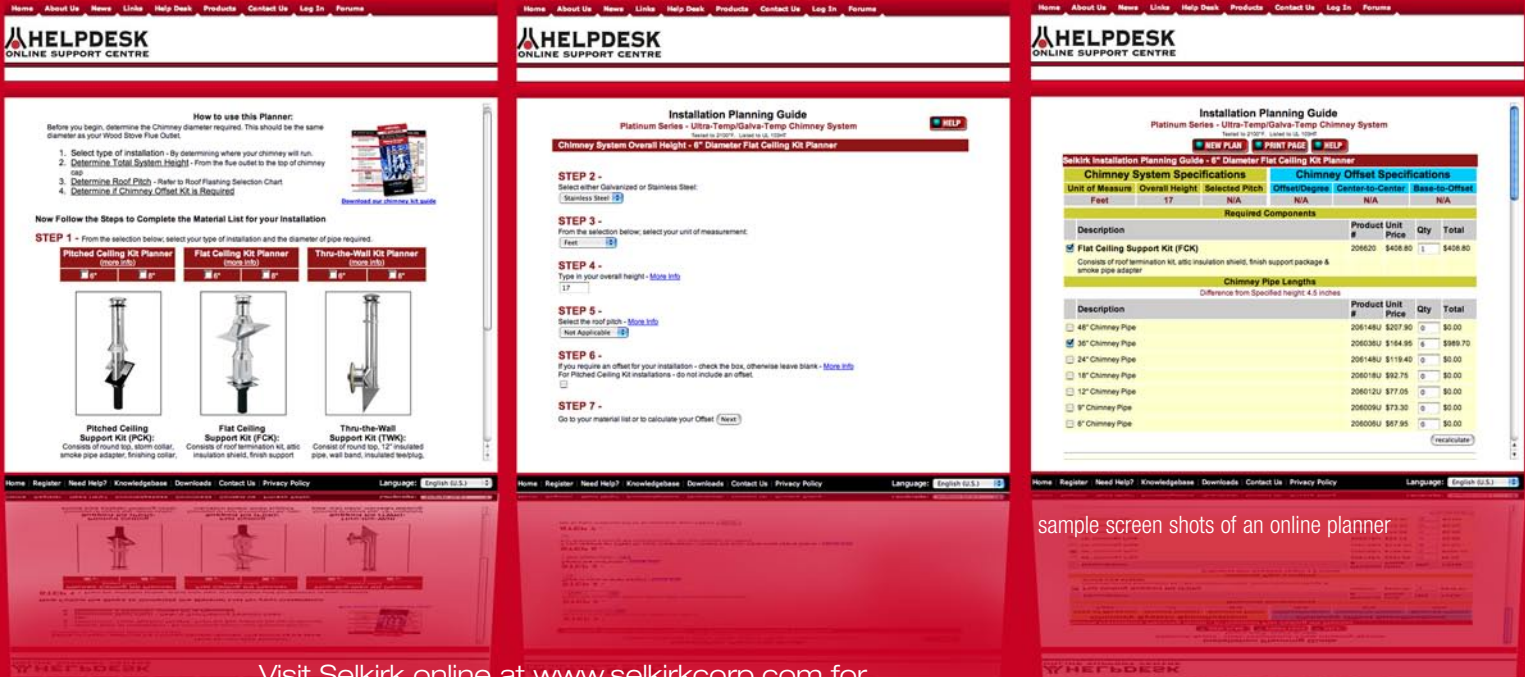
Note: All dimensions and indicated lengths assume a 1/4 overlap
 A 30 degree Elbow for 12" & 14" consists of two 15 degree Elbows.
 5 through 10"; 15° elbows are new 2 gore design.
 *are for a pair of 15° elbows.

15° Insulated Elbows can be used for fixed offsets of 15° slope or in pairs for offsets adjustable from 0° to 30° slope. The 30° Insulated Elbow in 5", 6", 7" and 8" sizes can be used for fixed offsets of 30° slope. Greater angles are prohibited by UL® Standard 103 and by the terms of the product listing.

REQUIRED: Locking Bands (2 packaged with each elbow kit) are to be used at each joint. Each offset must be resupported. Elbows rotate 360° to provide the exact orientation required. Insulated Elbows can be used at the same 2" airspace clearance as chimney sections.



Planning Your Chimney Installation is as Simple as 1, 2, 3...



sample screen shots of an online planner

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