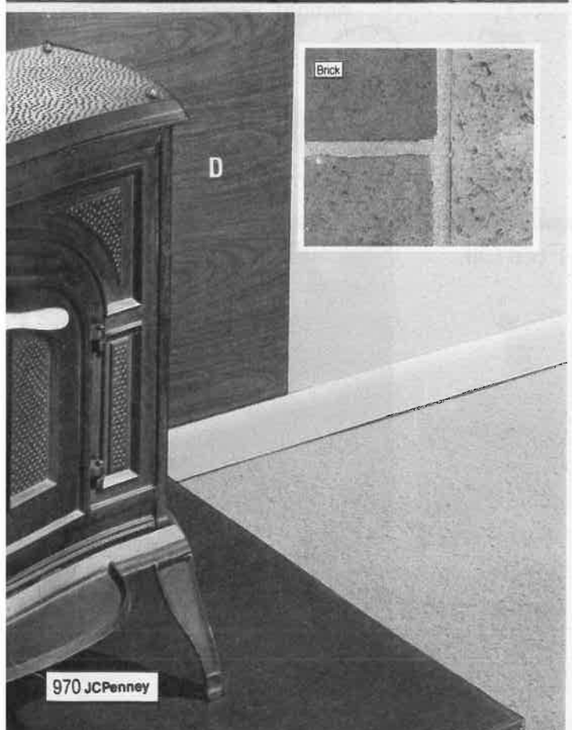
WOODBURNING FIREPLACE AND HEATERS



Fire-in-the-Round

549.99 Black **599.99** Colors

MANUFACTGR: MALM

SAVE 10% on chimney pipe and stove pipe when you buy fireplace—pipe sold on page 976

A Freestanding Fireplace. Unique patented design gives you dramatic, swirling flames, plus it offers greater heating efficiency than most standard free-standing fireplaces. *Construction:* Unit is constructed of heavy-gauge steel. Choose from a matte black finish or two procelain-enamel finishes: 01 almond or 03 red. *State color number-and-name.* Glass door is constructed to resist high temperatures. *Controls:* See "How it Works" below right. Includes enough color-matched flue pipe to reach an 8-ft. ceiling. Order additional colored pipe below. Use with 8-in. Metalbestos® Chimney Kits, sold on page 976. Listed by ICBO (International Conference of Building Officials) # 1555. *Dimensions:* 44 in. high x 32 in. wide. Burns logs up to 24 in. long. *Installation:* Firebox is preassembled—using ordinary household tools you can position it directly on Non-Combustible Round Hearth Floor, sold below. See Clearance Information below. Read Penney Pointers about Home Energy Savers on opposite page; about Woodburning stoves, Heaters, and Fireplaces on page 968. Warranted by manufacturer—see page 827.

R 900C5760 A—Black. Del. Class C—see p. 804. Class C wt. 185 lbs. **549.99**
R 900C5927 B—Colors. Del. Class C—see p. 804. Class C wt. 185 lbs. **599.99**

Additional Color-Matched 8-in. Diam. (Inside) Porcelain Enamel Flue Pipe. *State 01 almond or 03 red.*

R 904-5006 B—1-ft. long. Delivery weight 3 lbs. **24.99**
R 904-5014 B—2-ft. long. Delivery weight 3 lbs. **39.99**

B 4-Piece Firetool Set. Includes poker, brush, shovel, and 33-in. high stand. Matte black with chrome-plated steel handles.

R 900-6354 A—Delivery weight 18 lbs. **59.99**

C Log Basket. Chrome-plated steel with matte black trim. Also ideal for holding magazines.

R 901-4705 A—Delivery weight 7.50 lbs. **29.99**

CLEARANCE INFORMATION: All units must be placed on a non-combustible insulating surface of at least 3/8-in.-thick asbestos millboard or equivalent, or order Non-Combustible Hearth Floor below. Be sure to check local building codes and homeowner's insurance for additional requirements. See Penney Pointers on opposite page for additional information and clearance from non-combustible walls.

Fireplace	Clearance from Edge of Heater/ Fireplace to Combustible Wall		Clearance from Heater Door to Outside Edge/Clearance from Fireplace to Edge of Non-Combustible Floor		
	Back	Side	Front	Side	Back
(A) 900C5927	36 in.	36 in.	16 in.	9 in.	0 in.
900C5760	36 in.	36 in.	16 in.	9 in.	0 in.

Wall/Floor Shields and Hearth Floor

D Panels are made of 0.012 thick sheet metal over 3/8-in. mineral board. Help reduce required wall clearance by 58% on UL listed heaters/fireplaces/stoves—permit you to position units closer to combustible walls. Panels may be used either as a wall or floor protector for any stove sold in this Catalog; can be connected to increase the size of protected area. Cannot be cut. NOTE: These panels do not allow you to reduce the floor area which must be protected when unit is installed—see clearance information. To order; measure width and height of stove to obtain the required wall or floor protection (see instructions and diagram below). Easy-to-install—order floor connector and wall spacer kit below; instructions included. 3 patterns: 01 black; 02 brick; 03 woodgrain. *State pattern number-and-name.* UL listed. Del. Class C—see page 804.

R 904C3548 B—17x52 in. high. Class C Wt. 9.30 lbs. **39.99**
R 903C8928 B—26x34 in. high. Class C Wt. 9.30 lbs. **24.99**
R 903C8936 B—34x34 in. high. Class C Wt. 12.10 lbs. **29.99**
R 903C8944 B—34x44 in. high. Class C Wt. 15.80 lbs. **34.99**
R 903C8951 B—36x52 in. high. Class C Wt. 18.70 lbs. **39.99**

Wall Spacer Kit. Must be used to install shield on combustible walls. One kit attaches a 36x52-in. panel.

R 904-3530 A—Del. wt. 0.50 lb. ..... Kit **6.99**

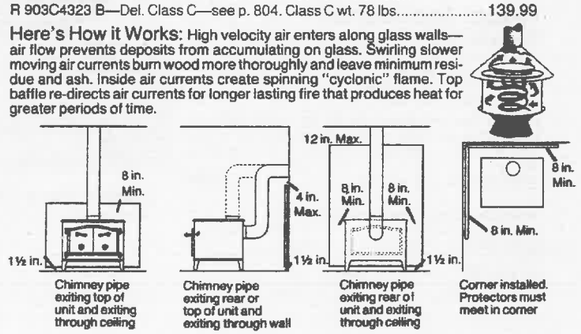
Floor Board Connector Kit. Permits you to connect two large panels to increase protected floor area. Includes 9 connectors.

R 904-3522 A—Del. wt. 0.60 lb. ..... Kit **2.99**

E Non-Combustible Round Hearth Floor is an ideal companion for our Carousel Fireplace, [A] above. Just set it in place on a firm, level surface—even on top of carpeting. Made of 2 in. thick steel-reinforced concrete with an insulating styrofoam core-for maximum protection. Choose from two finishes: 01 white braick or 02 red brick. *State finish number-and-name.* Measures 48 in. diameter.

R 903C4323 B—Del. Class C—see p. 804. Class C wt. 78 lbs. **139.99**

Here's How it Works: High velocity air enters along glass walls—air flow prevents deposits from accumulating on glass. Swirling slower moving air currents burn wood more thoroughly and leave minimum residue and ash. Inside air currents create spinning "cyclonic" flame. Top baffle re-directs air currents for longer lasting fire that produces heat for greater periods of time.



Chimney pipe exiting top of unit and exiting through ceiling

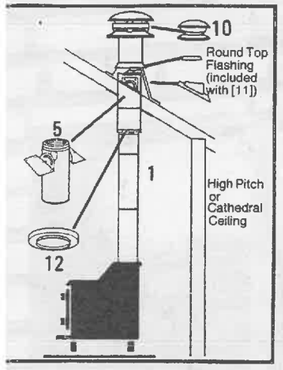
Chimney pipe exiting rear or top of unit and exiting through wall

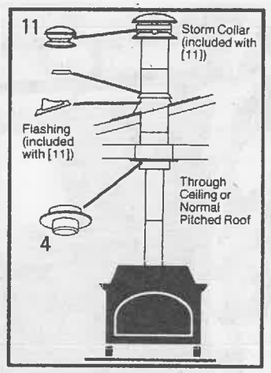
Chimney pipe exiting rear of unit and exiting through ceiling

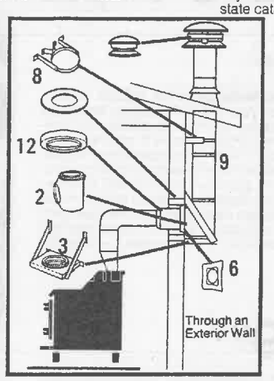
Corner installed. Protectors must meet in corner

CHIMNEY AND STOVE PIPE

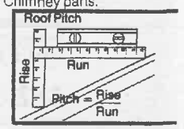
SAVE 10% on Pipe when you buy any stove or fireplace on pages 968 to 974. Simply state catalog numbers and deduct 10% from Chimney parts.



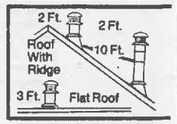




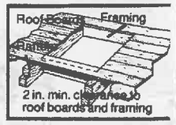
Determine type of installation by checking roof pitch (see diagram). Determine type of pipe needed (our better or best—see copy below)



Check parts—be sure you have adequate chimney support. NOTE: unsupported chimney must not exceed 20 ft. above or 10 ft. below support.



Check roof clearance and determine how much pipe to order. 2-in. minimum clearance is required from chimney wall to roof boards and framing. Check local building codes.

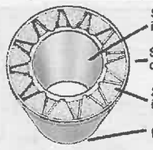


1 to 10 **Metalbestos® All-Fuel Chimney Systems.** Two Complete, Specialized Systems for Venting Gas, solid and liquid fuel-fired residential appliances including ranges, circulating heaters, fireplace stoves airtight stoves, and coal stoves. Read more below to determine which type of chimney best suits your needs. All chimneys have outer linings separated by 1 thick insulation to help prevent ignition of combustible materials as close as 2 in. from casing. Stainless steel casings resist corrosion. All parts are UL listed. Delivery class A—see page 804. 15-lb. rate.

How Much Chimney Pipe to Order for Our Best System

In 18- and 36-in. lengths. Use chart below to determine how many pieces of each length you will need. Chart figures compensate for pipe overlap of 1 in. CAUTION: add extra 18 in. of length of chimney pipe for through-the-wall installation.

Total Ht. of Chimney		Quantity Pipe Needed		Total Ht. of Chimney		Quantity Pipe Needed		Total Ht. of Chimney		Quantity Pipe Needed		Total Ht. of Chimney		Quantity Pipe Needed	
Ft.	In.	36 in.	18 in.	Ft.	In.	36 in.	18 in.	Ft.	In.	36 in.	18 in.	Ft.	In.	36 in.	18 in.
4	.....	1	.....	11	.....	3	1	17	6	5	1	24	.....	8	.....
5	.....	1	1	11	6	3	1	18	.....	6	.....	14	6	8	.....
5	6	1	1	12	6	4	.....	19	.....	6	.....	25	6	8	1
6	6	2	.....	13	.....	4	.....	19	6	6	1	26	.....	8	1
7	.....	2	.....	14	.....	4	1	20	.....	6	1	27	.....	9	.....
8	.....	2	1	14	6	4	1	21	.....	7	.....	.....	.....	.....	.....
8	6	2	1	15	6	5	.....	22	.....	7	.....	.....	.....	.....	.....
9	6	3	.....	16	.....	5	.....	22	6	7	1	.....	.....	.....	.....
10	.....	3	.....	17	.....	5	1	23	.....	8	.....	.....	.....	.....	.....



Our Best Chimney System

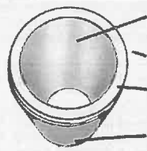
Our best pipe is specially designed to reduce the chimney fire hazards due to creosote build-up from the slow, low-temperature burning associated with air tight appliances and dampered stoves and heaters. Greater insulation space and locking band connectors help eliminate "hot spots" inside the chimney. Order from chart at right.

SENTINEL

How Much Chimney Pipe to Order for Our Better System

In 18- and 30-in. lengths. Use chart below to determine how many pieces of each length you will need. Chart figures compensate for pipe overlap of 1¼ in.

Total Ht. of Chimney		Quantity Pipe Needed		Total Ht. of Chimney		Quantity Pipe Needed		Total Ht. of Chimney		Quantity Pipe Needed	
Ft.	In.	18 in.	30 in.	Ft.	In.	18 in.	30 in.	Ft.	In.	18 in.	30 in.
1	6	1		10	1	2	3	17	8	4	5
2	6		1	10	5¾	4	2	18	3¼	1	7
2	10¾	2		11	1	1	4	18	8	3	6
3	10¾	1	1	11	5¾	3	3	19	¾	5	5
4	3½	3		12	1		5	19	8	2	7
4	10¾		2	12	5¾	2	4	20	¾	4	6
5	3½	2	1	12	10¾	4	3	20	8	1	8
5	8¼	4		13	5¾	1	5	21	¾	3	7
6	3½	1	2	13	10½	3	4	21	8		9
6	8¼	3	1	14	3¼	5	3	22	¾	2	8
7	1	5		14	10¼	2	5	22	5½	4	7
7	8¼	2	2	15	3¼	4	4	23	¾	1	9
8	1	4	1	15	10½	1	6	23	9	5	7
8	8¼	1	3	16	3¼	3	5	24	¾		10
9	1	3	2	16	10½		7	24	5½	2	9
9	8¼		4	17	7¾	2	8	24	10¼	4	8



Our Good Chimney System

Designed for venting gas fireplaces, stoves and heaters and open-faced woodburning appliances. Twist-lock connection makes installation extra easy. Order from chart at right. Not recommended for coal stoves.

Chimney Accessories	*Our Best Chimney System						Our Good Chimney System					
	6" Inside Diam.	Lbs.	Each	8" Inside Diam.	Lbs.	Each	6" Inside Diam.	Lbs.	Each	8" Inside Diam.	Lbs.	Each
[1] 18-in. Chimney Pipe. Our Best System is available in 36-in. length, our Good System in 30-in. length Chimney Pipe	R 903-9520 A	19.00	34.99	R 903-9769 A	25.00	54.99	R 900-9101 A	11.00	21.99	R 961-7291 A	13.00	34.99
[2] "T" with Cleanout Cap. Connects horizontal stovepipe & chimney pipe.	R 903-9678 A	24.00	64.99	R 904-0502 A	33.00	84.99	R 900-9119 A	16.60	35.99	R 961-7390 A	21.00	54.99
[3] Wall Support. Supports [2] "T" to chimney.	R 903-9686 A	21.00	99.99	R 904-0510 A	31.00	134.99	R 900-9127 A	11.00	59.99	R 961-8992 A	15.00	94.99
[4] Flat Ceiling Support. Connects horizontal stovepipe & chimney pipe. * Black Finish.	R 903-9694 A	5.00	39.99	R 904-0528 A	5.00	59.99	R 900-9135 A	8.40	29.99	R 961-7929 A	10.10	39.99
[5] Pitched Ceiling Support. Connects horizontal stovepipe & chimney pipe. Includes 18-in. pipe, 2 thimble plates, 2 roof brackets, hdwe.	R 903-9702 A‡	11.00	59.99	R 904-0601 A‡	13.00	79.99	R 900-9168 A	7.00	19.99	R 903-1428 A	8.00	29.99
[6] Wall Spacer. Supports horizontal stovepipe, and maintains clearance thru wall. Use with [2] & [3].	R 903-9744 A§	7.00	54.99	R 904-0676 A§	8.0	69.99	R 900-9184 A	16.00	34.99	R 961-7960 A	18.00	49.99
[7] Joist Shield. For clearance through more than 1 wall.	R 903-9710 A	6.00	5.99	R 904-0684 A	7.00	8.99	R 900-9192 A	4.00	3.99	R 961-8042 A	5.00	6.99
[8] Chimney Stabilizer. For every 8 ft. above [3].	R 903-9728 A	8.00	19.99	R 904-0692 A	9.00	29.99	R 900-9200 A	5.00	14.99	R 904-3068 A	6.00	17.99
[9] Locking Joint Band. Reinforces joints—increases stability of free-standing round chimney above support.	R 903-9736 A	2.00	12.99	R 904-0700 A	2.00	19.99	R 900-9218 A	8.00	9.99	R 961-4181 A	9.00	11.99
[10] Chimney Top. Completes installation of any type.	.....	.....	.....	.....	.....	.....	R 900-9234 A	1.00	3.99	R 961-8083 A	1.50	4.99
[11] Round Chimney Top Kit—for flat or pitched roof. Includes top, storm collar, and adjustable flashing.	R 903-9751 A	5.00	24.99	R 904-0726 A	6.00	45.99	R 900-9242 A	3.20	24.99	R 961-8877 A	6.00	45.99
[12] Trim Collar	R 904C1591 A	26.00†	94.99	R 904C1609 A	30.00†	129.99	R 900C9259 A	8.75†	44.99	R 903C0792 A	10.00†	74.99
Finishing Collar	.....	.....	.....	.....	.....	.....	R 904-6764 A	6.00	17.99	R 904-6780 A	8.00	22.99
	.....	.....	.....	.....	.....	.....	R 904-6772 A	5.00	7.99	R 904-6806 A	7.00	9.99

‡903-9702 and 904-0601 include Square Plate Assembly, 18-in. Starter Section of Pipe, Decorator Sleeve, Smoke Pipe Adapter, Black Locking Band, and Black Base Cap.

§903-9744 and 904-0676 include Base Cap, Support Band 2 Roof Brackets, 2 Roof-Angle Adjusters, Smoke Pipe Adjuster, and Locking Band Handware.

NOTE: Each Chimney System is separate and parts are not interchangeable.

FREE INSTALLATION BOOKLET on how to install a safe chimney. Just call or write Customer Service, see page 804, and we'll send you your copy.

†Delivery Class C—see page 804.
*Supports up to 85 ft. of chimney.

Single Wall Stovepipe

Matte Black Stovepipe for connecting fireplace or stove to chimney system. 24-gauge steel. Pipe is used to connect a stove to masonry chimney or to an insulated chimney pipe. CAUTION: black stove pipe should not pass through combustible walls or used as an exterior pipe. Delivery Class A—see page 804.

Stovepipe	6" Inside Diam.	Lbs.	Price	8" Inside Diam.	Lbs.	Price
90° Elbow	R 901-7708 A	2.0	8.99	R 901-7906 A	2.99	11.99
1' pipe	R 901-7682 A	2.2	8.99	R 901-7880 A	2.75	9.99
2' pipe	R 901-7690 A	4.5	9.99	R 901-7898 A	4.00	11.99
5' pipe with damper	R 900-6214 A	3.0	17.99	.....	.....	.....

Of Course You Can Charge It—See Page 811

RESIDENTIAL APPRAISAL CARD

DISTRICT NO.

OWNER

Ralph Jansen & w.,
3805 W Kirchoff Ave
Milwaukee 9, Wisc.

DESCRIPTION

420

#1

420 Lot 1 Blk 2
Kirkwood Subd.
SW¼ Sec 12-8-21E.

SALES INFORMATION

Date	Consideration	Volume	Page	Remarks

BUILDING PERMIT RECORD

Date	Number	Amount		Purpose

RENTAL INFORMATION

No.	Year	Full Rental Val.	Vac. Fac.	Adj. Rent. Val.	Average	3 Yr. Av.
	19	$	$	$	$	
	19					
	19					$

GENERAL INFORMATION

Appraisal—Date Am't. $ By

Appraisal—Date Am't. $ By

Appraisal—Date Am't. $ By

Owner's Estimate: Land Bldgs Equip Total

Asking Price $ Offer

Insurance $ Mortgage $ Year

LAND VALUE FACTORS

Width
Average Depth
Facing on
Corner
Exposure: N S E W
Alley: Size Rear
Distance From:
Bus or Car Line
Center of City
Grade School High School
Church
Zone
Neighborhood: Exc. Good Avg.
Poor Stable
Declining Improving
Age of Neighborhood

Surface
Grade
Pavement
Sidewalk
Curb and Gutter
Water Sewer
Gas Electricity

LAND IMPROVEMENTS

Retaining Walls $
Cement Drives and Walks $
Fences $
Shrubs, Trees and Lawn $
Wells $
Septic Tanks $
Total $

COMPUTATION OF LAND VALUE

Width		
Front Foot Unit	$	
Value Full Depth	$	
Depth Factor %		
Adjusted Land Value	$ 4000	
Add Alley Value	$	
Add Corner Value		
Add Land Impts.	500	
Total Land Value	$ 4500	

Remarks:

SUMMATION OF VALUATION PROCESSES

	Valuation from Income	Adjusted Sound Value	Valuation from Income	Adjusted Sound Value
Date				
Land				
Improvements				
Total				

ASSESSMENT SUMMARY

By Whom Assessed	J PC					
Date	1964					
Land	4500					
Improvements	15500					
Total	20,000					

8
92
65

WIS. DEP'T OF TAX. PROP. FORM 1111
688 REV. 5/61

MALM FIREPLACES, INC.

368 YOLANDA AVENUE • SANTA ROSA, CALIFORNIA 95404 • 707-546-8955

ASSEMBLY
and
INSTALLATION INSTRUCTIONS

SPIN-A-FIRE

I.C.B.O No. 1555

Please read instructions thoroughly before proceeding with installation.

The Royal Family of Fireplaces

ASSEMBLY INSTRUCTIONS

1. Remove contents of cartons and inspect for damage.

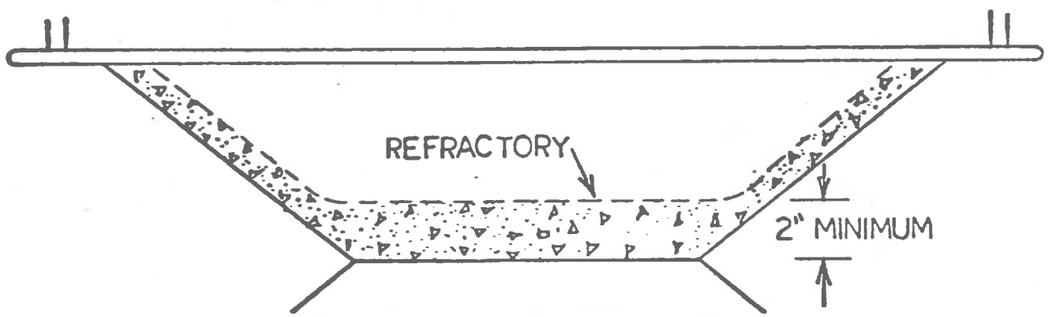
2. Lower hood onto basic unit and align large holes in hood ring with bolts on basic unit. This will align the nine remaining securing holes.

3. After the hood is in position, secure with the [redacted] 14 x 3/4" hex head sheet metal screws provided.

18

REFRACTORY MIXING INSTRUCTIONS

Included with each fireplace is the Malmcrete refractory. Mix water with all of the bags of refractory and pour into fire box. Mix to consistency that is easy to handle for proper shaping. Trowel to the shape of the bowl as shown in the drawing below. Allow to dry for 48 hours and build your first fire slowly to allow proper curing of the refractory.



FIREPLACE AND CHIMNEY INSTALLATION

The following items are included with each fireplace:

Chimney connector pipe for standard 8 foot ceiling.

2 - 8 x 24 Double Bead

1 - 8 x 24 Single Bead

Malmcrete for lining firebox hearth (3 bags).

CHIMNEY

The Spin-A-Fire is designed to be connected to an eight (8) inch, U.L. listed low heat appliance chimney, as defined in Chapter 37 of the Uniform Building Code. The chimney should extend at least three feet above the highest point where it passes through the roof of the building and at least two feet higher than any portion of the building within ten feet of the chimney. This fireplace is not designed or approved for mobile home or tr iler installation.

HEARTH EXTENSION

A non-combustible flooring material such as asbestos millboard or equivalent minimum thickness of 3/8 inches, must be installed beneath the fireplace. This flooring material must extend in front of the fireplace as described in Figure No. 1 and Table No. 1, Page 5.

INSTALLATION

1. Install the listed chimney per the chimney manufacturers' specifications. NOTE. Insure that when the fireplace is connected to the chimney, that all clearances to combustibles will be met. Refer to Figure No. 1 and Table No. 1 on Page 5.

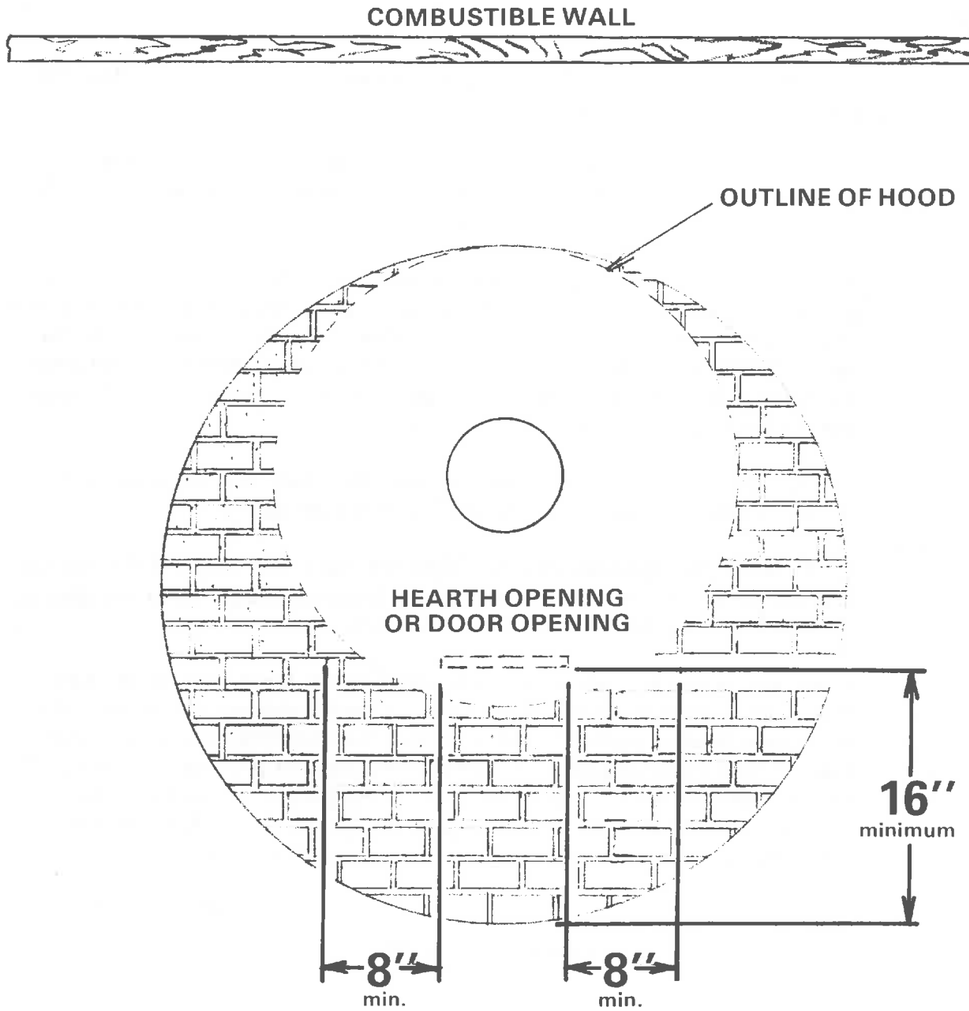
2. Position fireplace on top of non-combustible flooring material, directly beneath chimney.

3. Place the single beaded length of chimney connector pipe into the listed chimney at the ceiling. It may be required for one person to hold this pipe in place until all of the chimney connector pipe is in place.

4. Place the first section of chimney pipe on top of fireplace collar. Insure that the seam of the pipe is adjacent to the rear of the fireplace.

5. Lower the length of pipe at the ceiling onto the lower sections of pipe until the connection is complete.

6. Insure that the seams on all the pipe are aligned and adjacent to the rear of the fireplace.



WHEN USING THE "ASTRO HEARTH" . . .

* UNIT MUST BE PLACED IN POSITION ON THE HEARTH SO THAT A MINIMUM OF 16 INCHES IN FRONT AND 8 INCHES TO EACH SIDE OF THE FIREPLACE OPENING IS MAINTAINED.

  THE REQUIRED CLEARANCES AGAINST COMBUSTIBLES MUST BE MAINTAINED AS STATED IN THE INSTALLATION INSTRUCTIONS FURNISHED WITH THE UNIT. HEARTH MAY BE INSTALLED ON COMBUSTIBLES.

★ THE 48" 'ASTRO HEARTH' MEETS OR EXCEEDS THE REQUIRED DIMENSIONS SPECIFIED FOR HEARTH EXTENSIONS FOR THE SPIN-A-FIRE AND 32" SQUIRE FIREPLACE STOVES.

SELKIRK METALBESTOS

WallaceMurray

Model SC Sentinel Chimney

Installation Instructions
Ceiling Support Package

SHEET
S-2

INSTALLATION INSTRUCTIONS

STARTER LENGTH, PART NO. 6SC-18SL, 7SC-18SL, 8SC-18SL
CEILING SUPPORT PACKAGE, PART NO. 6SC-CSP, 7SC-CSP, 8SC-CSP

Ceiling Supports use an 18-inch long Starter Length with attached Support Band to start a bottom-supported chimney. The Support Package (CSP) includes: Plate assembly with straps, Locking Band, Starter Length, Black Matte Basecap, Smoke Pipe Adapter and Decorator Sleeve.

The CSP has a square firestop plate for use in a framed opening with or without a finished ceiling. The plate is two inches wider than the inside framing dimensions.

The Basecap must be installed at the lower end of any suspended insulated chimney section to prevent loss of insulation.

STEPS IN INSTALLATION

1. Frame a level square opening, with inside dimensions as tabulated for 2 inches clearance to combustibles: 6" size 14-1/2 x 14-1/2; 7" - 15-3/4 x 15-3/4; 8" - 17-1/2 x 17-1/2.
2. Place plate assembly through opening from below, with straps pointing up through opening, and main plate (with diagonally bent edges) inside framed opening. See Fig. 1.
3. Attach to ceiling or to framing using screw holes in round or square firestop plate.
4. Pull straps tight from above and bend them over framing.
5. Using two eight penny nails per strap, nail into upper edge and to outside of framing. See Fig. 2. Check that firestop plate is level and flush against framing or ceiling.
6. Lower the 18" Starter Length (lower Locking Band must be off) through the support so that the Support Band screw tabs are in opposite corners of the main plate.
7. Additional chimney lengths may now be installed above this support to a total height of 40 feet.
8. Place Smoke Pipe Adapter (with flange up) into Basecap and place this assembly in the lower end of the chimney. Secure with the Locking Band. The stub end of the adapter is intended to fit inside of the connector from a solid fuel appliance, thus preventing condensate drips at the chimney connection. See Fig. 4.
9. Secure the connector from the appliance to the Smoke Pipe Adapter using sheet metal screws.
10. In an open attic, use an Insulation Shield, Part No. SC-AIS of proper size to keep the framing around the support clear of blown in insulation.

IMPORTANT: Sentinel Chimney Ceiling Supports have been temperature tested using a vertical single wall connector. Ceiling surface temperatures within and around the support were within limits allowable in accordance with UL Standard 103. These tests establish that connector clearances to combustible may be less than those permitted for untested connector installations.

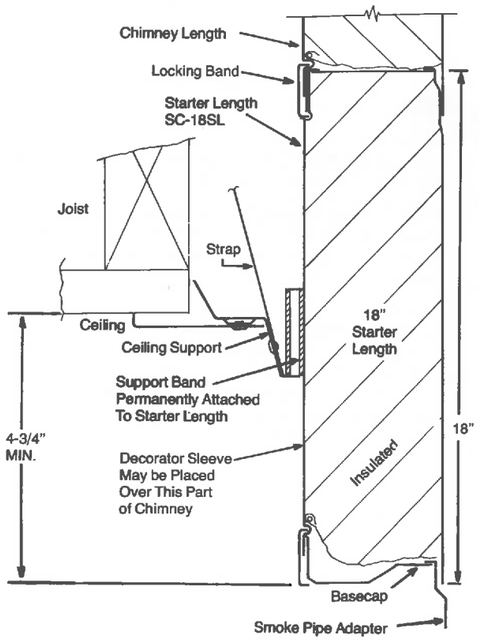


Fig. 1 Cross-Section of Ceiling Support Installation

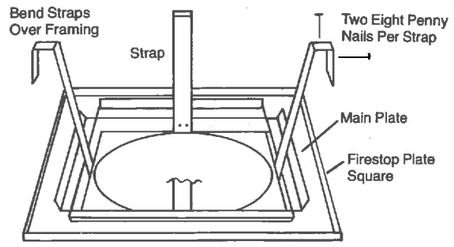


Fig. 2 Ceiling Support, SC-CSP

SELKIRK METALBESTOS

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Model SC Sentinel Chimney

Installation Instructions
Flashing Roof Assembly

SHEET **S-6**

FLASHING ROOF ASSEMBLY

Adjustable Pitch; Flat to 6/12

(Part Nos. 6SC-FRA-A, 7SC-FRA-A, 8SC-FRA-A)

Tall Cone Flat Flashing:

(Part Nos. 6SC-FRA-F, 7SC-FRA-F, 8SC-FRA-F)

Adjustable Pitch; 7/12 to 12/12

(Part Nos. 6SC-FRA-P, 7SC-FRA-P, 8SC-FRA-P)

The Flashing Roof Assembly is used for a round chimney termination in either of two ways:

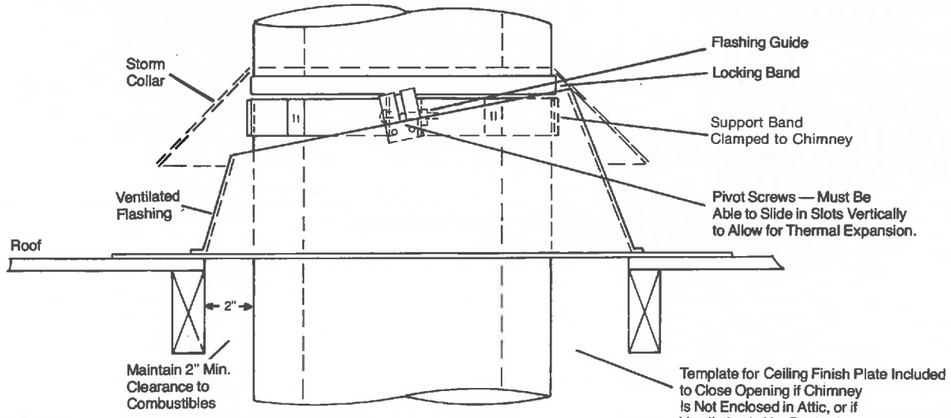
A. To stabilize and center the chimney (Method A) where it passes through its ventilated flashing. For this application, the Support Band is clamped to the outside of the chimney, but the pivot screws are simply rested (with untightened nuts) in the flashing guide to be able to slide in the slots.

B. To support and suspend (Method B) a length of chimney (up to 16 ft.) directly from the upper end of the flashing. Clamping the Support Band to the chimney and between the Flashing Guides provides simultaneous centering and stability. The Flashing Roof Assembly consists of the Flashing (Part No. AF or as necessary for greater roof pitch), Storm Collar (Part No. SC-SC) and Support Band (Part No. SC-SB). These are used to provide weather protection for the roof opening, attic ventilation (if desired) plus chimney centering, support and stability at the roof penetration.

A. BOTTOM SUPPORTED CHIMNEY

For installation of the Flashing Roof Assembly for a bottom-supported chimney, complete steps (1) through (6) below before permanently installing the roofing material.

1. Finish the chimney to a height of 2 or 3 feet above the roof structure. Maintain 2-inch clearance to combustibles where it passes through the roof.
2. Place a Flashing suitable for the roof pitch over the chimney pipe and center it around the chimney. Do not nail down as yet.
3. Assemble the Support Band loosely around the pipe including the pivot screws.
4. Slide the Support Band into position with pivot screws at the bottom of the slots in the Flashing Guides. Be sure that takeup nuts on the long bolts of the Support Band are accessible for tightening.
5. If the Support Band must be repositioned because of interference with a Locking Band, interchange chimney lengths to allow the Support Band to be clamped to the pipe body. Remember that the Support Band is used for centering and to resist side loads only. In this method it does not carry any vertical load.
6. After making sure that the chimney is vertical with correct clearances, the flashing may now be installed permanently. Nail it securely to the roof framing or boards through the side and top flanges (DO NOT nail through the lower flange). Use nails with a neoprene washer or cover nail heads with waterproof mastic.
7. Finish roofing around chimney, covering the side and upper areas of the flange with roofing material. However, be sure the lower unnailed portion of the flange covers the roofing material. (See Illustration of Method B)
8. Install double-locked nuts at the ends of the pivot screws leaving clearance so that these screws can slide up in the slots and tighten the Support Band to chimney.
9. Place the Storm Collar down over the chimney until it is level and in contact with the Flashing Guides or with the upper edge of the locking band. Tighten the Storm Collar for a snug fit and work in waterproof mastic at the point of contact between the pipe and the Storm Collar.



Method A

Support Band Used to Center and Stabilize Bottom-Supported Chimney

SELKIRK METALBESTOS

WallaceMurray

Model SC Sentinel Chimney

Installation Instructions
Round Top Termination
Spark Arrester
Bracing Requirements

SHEET S-7

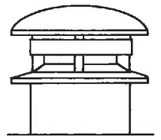
ROUND TOP

(Part Nos. 6SC-CT, 7SC-CT, 8SC-CT)

Round Tops have a nominal diameter expanding utility attachment adaptable to Selkirk Metalbestos Chimney and other products of like internal diameter. To attach securely:

1. Loosen screw on top of collar and squeeze bottom to allow collar to enter pipe.
2. Press down evenly on lower skirt until it contacts upper end of pipe. Do not press on upper dome.
3. Tighten screw on collar to expand lower end and clamp to inside of pipe. Keep tightening screw until collar is expanded and fully tight.

Round Top Termination
For Maximum Rain Protection



Round Top, Part No. SC-CT

For Any and All Types of Chimney Installation

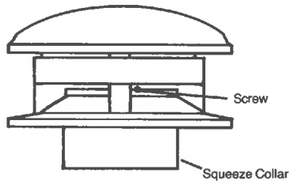


Fig. 1

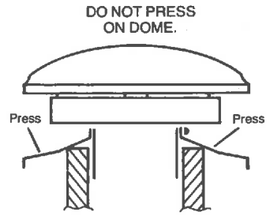


Fig. 2

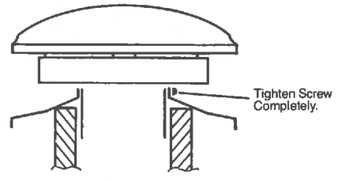
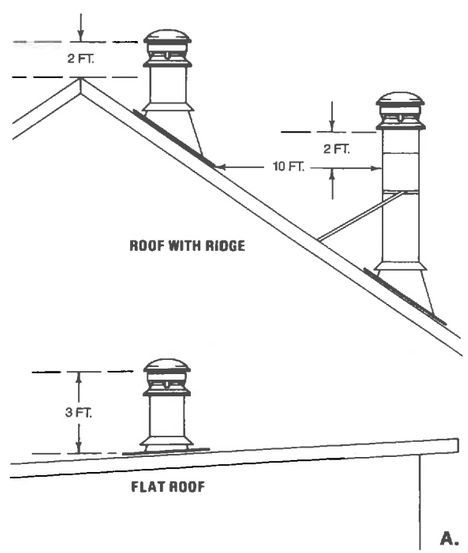


Fig. 3

IMPORTANT: RULES FOR CHIMNEY HEIGHT AND TERMINATION

1. Before beginning installation of the chimney, be sure that the selected height with Round Top termination is high enough to conform to building code requirements. Chimneys are required to extend at least 3 feet above the highest point where they pass through the roof of a building, and at least two feet higher than any portion of a building within 10 feet. (National Fire Protection Association Standards Nos. 31, 54 and 211.)
2. Chimney height must be sufficient for proper appliance draft. Many oil and coal appliances have minimum draft requirements which determine the needed height. This may be greater than the height called for by Rule 1. For gas vents, refer to Gas Vent and Chimney Sizing Handbook, or to National Fuel Gas Code.
3. Zero clearance and other types of fireplaces also may specify minimum chimney heights.
4. If the chimney is for an appliance in a one-story part of a two-story house, it should be as high as the heated part of the house. Otherwise it may be subjected to reverse flow and may be difficult to prime or start in operation.
5. Use only the Selkirk Metalbestos SC-CT chimney top. This top has been designed to provide free flow in still air, good updraft performance in winds, rain protection and resistance to heat and corrosion. No other top design can offer the same level of performance and protection. Do not believe claims that certain designs can prevent creosote.



SELKIRK METALBESTOS

WallaceMurray

MODEL SC SENTINEL CHIMNEY

Guide to Parts, Kits, Assemblies and Packages and to Applicable Instructions

SHEET S

IMPORTANT: The parts, kits, assemblies and packages shown here are essential to a correct installation. They must be installed strictly in accordance with their applicable instructions. With some of these groups, two or more different Instruction Sheets may be necessary. For your protection, read and study these carefully before beginning an installation. If you don't find the sheets referenced here, obtain them from your dealer, distributor or from Selkirk Metalbestos.

The necessary installation instruction sheets are called out in the boxes next to the illustrations.

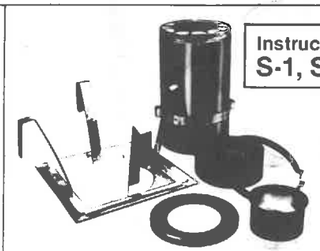
CAUTION: MODEL SC SENTINEL CHIMNEY MUST BE PROPERLY SUPPORTED AND SPACED. DO NOT USE PIPE BY ITSELF OR ATTEMPT TO FABRICATE YOUR OWN SUPPORTS.

CHIMNEY LENGTHS
(SC-36, SC-18, SC-12, SC-9)

FINISHED CEILING SUPPORT KIT

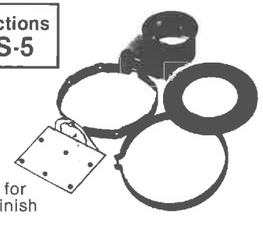
Consisting of Round Top, Flashing Roof Assembly Adjustable and Ceiling Support Package (SC-FCSK)

Instructions S-1, S-2, S-6, S-7



Instructions S-1, S-2

CEILING SUPPORT PACKAGE (SC-CSP)



Instructions S-1, S-5

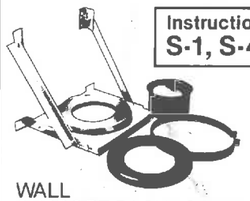
Template for Ceiling Finish Plate

ROOF SUPPORT ASSEMBLY (SC-RSA)

WALL SUPPORT KIT

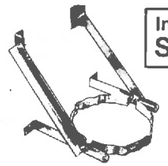
Consisting of Round Top, Wall Support Package, Wall Band, Insulated Tee, 8" Decorator Sleeve, Finished Wall Plate (SC-WSK)

Instructions S-1, S-3, S-4, S-7



Instructions S-1, S-4

WALL SUPPORT PACKAGE (SC-WSP)



Instructions S-4

WALL BRACE KIT (SC-WBK)

Instructions S-3

WALL BAND (SC-WB)

Instructions S-3

30° INSULATED ELBOW (SC-EL)

Instructions S-4

INSULATED TEE (SC-IT)

Instructions S-4

FINISHED WALL PLATE (SC-FWP)

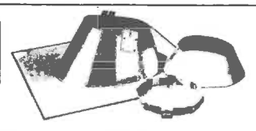
Instructions S-3

Instructions S-7

ROUND TOP (SC-CT)

INTERIOR RESUPPORT ASSEMBLY/ OFFSET SUPPORT (SC-ISA/OS)

Instructions S-1, S-6



FLASHING ROOF ASSEMBLY ADJUSTABLE (SC-FRA-A)

Instructions S-1, S-6

FLASHING ROOF ASSEMBLY FLAT (SC-FRA-F)

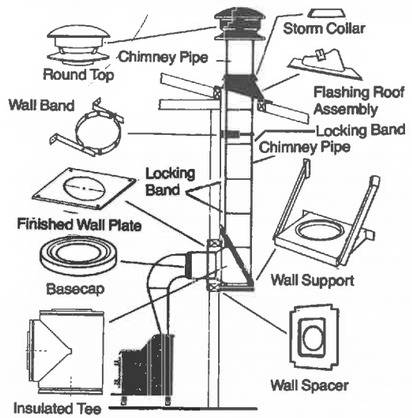
Instructions S-3

JOIST SHIELD (SC-JS)

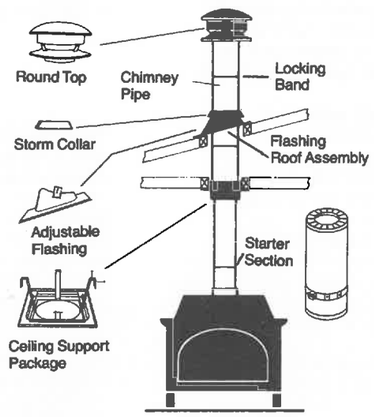
HAVE YOU SELECTED THE RIGHT PARTS?

The chimney for your fireplace or stove will probably take one of the following configurations. Each of these chimney systems requires a different combination of parts to complete a satisfactory chimney assembly. These fittings are illustrated and labeled for your convenience. It is important that you have the correct combination of parts and sufficient chimney pipe *before* you start installation. Be sure to read and follow the instructions with your fireplace or stove for any special chimney needs and other installation requirements.

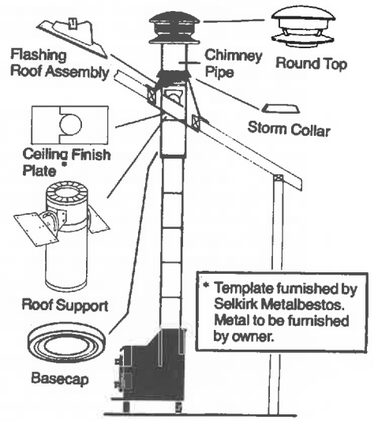
Through an Exterior Wall



Through a Ceiling & Normal Pitch Roof



Through a High Pitch or Chalet Ceiling



USE LOCKING BANDS AT ALL CHIMNEY JOINTS

INSTALLATION INSTRUCTIONS

A correctly installed chimney system that is properly used and systematically maintained is one of the best investments a homeowner can make if he intends to burn wood as a fuel. Installation of a chimney inside the house has five important parts.

1. Proper Support, With Access for Inspection and Maintenance.
2. Observe Clearance to Combustible Material for Smoke Pipe or Connector.
3. Observe Clearance of Insulated Pipe.
4. Firestopping.
5. Joint Security.

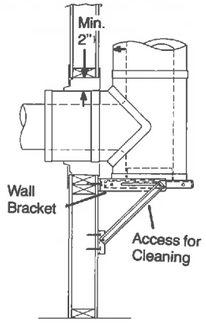
WARNING

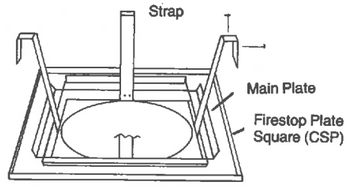
Failure to follow these instructions could cause a malfunction of your heating system. This could result in death, serious bodily harm and property damage.

PROPER SUPPORT

Always provide for access for inspection and cleaning.

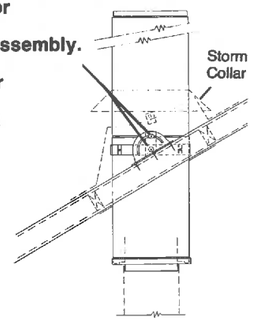
1. Wall Support Package Insulated Tee Part Nos. SC-WSP and SC-IT (see sheet 4)





2. Ceiling Support (see sheet 2) Part No. SC-CSP, and Starter Length, Part No. SC-18SL for a Vertical Supported Chimney

3. Flashing or Roof Support Assembly. Part No. SC-FRA or SC-RSA (see sheet 5 or 6)



OBSERVE CLEARANCE TO COMBUSTIBLE MATERIAL

SMOKE PIPE OR SINGLE WALL MATERIALS

The smoke pipe or connector is the sheet metal pipe between your appliance and the chimney. This may be provided as a special pipe or you may have to buy it separately. You should keep in mind that this pipe which is usually only single wall material, can be a source of additional heat, but it can also be very dangerous.

Keep the following factors in mind when selecting single wall connector pipe, as well as elbows and other fittings.

— Joints of parts to be connected should overlap at least one inch so that they can be securely attached with sheet metal screws.
— When properly overlapped, the joints should be as airtight as possible.
— If the pipe has lengthwise snap-lock seams, put some together and then check the joints between sections and fittings for tightness and overlap.
— Remember that protective finishes such as paint or galvanizing may be ineffective if the pipe is overheated. The heavier the pipe, the longer it will last.
— If the pipe has a porcelain enamel finish, it should be provided with secure joints and secure attachments to the appliance and chimney.
— Any vertical pipe should be installed with the small (or crimped) end down. This will keep creosote inside. If a horizontal run is needed, try to slope this enough to keep the joints from dripping.

INSULATED SENTINEL CHIMNEY PIPE

When your chimney must pass through an occupied portion of the building such as the room above your fireplace location, or if it is impossible to maintain 18" between your smoke pipe and a combustible wall, you must use insulated chimney pipe. Your Selkirk Metalbestos Sentinel chimney can be installed in the open or enclosed safely in wooden paneling at only 2" for space between the wood and the outer chimney wall.

It is not necessary to enclose the part of your insulated chimney pipe that runs from the appliance to the ceiling. Most building codes, however, require that any part of your insulated chimney system running from floor to ceiling must be enclosed. This protects the chimney assembly from accidents. There is no general enclosure requirement for attic and crawl spaces or garages.

Framing of chimney passages through walls, ceiling above the support and roof structures must allow for 2" clear space between the insulated pipe and the framing material. The use of a Joist Shield (Part No. SC-JS) or Wall Spacer (Part No. SC-WS) will hold the chimney in a fixed position and assures you that this required clearance space will be maintained.

Remember that clearance requirements between combustible material and your chimney are established for your protection. (See illustrations on next page.)
NOTE: Read carefully the section covering chimney fires and their prevention.

CLEARANCE OF SINGLE WALL

The clearance from single wall smoke pipe depends on how it is used: (1) If it is going into a Ceiling Support, such as a CSP, this is a UL-tested installation. The smoke pipe clearance to the ceiling can thus be as shown in Installation Sheet 2 and will be less than 18". (2) If the smoke pipe or connector must go up along a wall, or run along under a ceiling, always maintain 18" clearance to the combustible surface (drywall, sheetrock or plaster is also considered as a combustible surface). (3) Never use smoke pipe in areas not visible to the eye, i.e. crawl or attic spaces. (4) Never enclose smoke pipe with any combustible building material. (5) Attach all joints securely to the stove, each other and to the chimney. Make sure these joints are as leak-tight as possible, with the crimped ends down to keep creosote inside the pipe.

Excessively long lengths of smoke pipe can interfere with the proper operation of your appliance. Many people mistakenly use long runs thinking that they are using waste heat to warm their homes. What actually happens is that this loss of heat quickly cools the flue gases to their dew point causing internal creosote condensation in the chimney. The result is rapid build-up on the inside of the chimney, loss of draft and large amounts of creosote dripping down the chimney.

Use of single wall pipe to extend your chimney above the roof may seem like a good savings at the time of installation; however, it is likely to cause dripping creosote stains on the roof, poor draft, rusting pipe and ice hanging from the chimney top.

SELKIRK METALBESTOS SENTINEL MODEL SC FRAMING AND SUPPORT TABLE

SENTINEL CHIMNEY MODEL SC	DIMENSIONAL DATA, INCHES		
SIZE, INCHES, INSIDE	6	7	8
OUTSIDE DIAMETER	10.5	11.75	13.5
ENCLOSURE AND FRAMING	14.5 x 14.5	15.75 x 15.75	17.5 x 17.5
APPROX. WEIGHT, LBS/FT.	10	11.5	13.5
MAXIMUM WEIGHTS FOR ALL SUPPORTING METHODS, FEET			
CEILING SUPPORT (CSP)	40	40	40
INTERIOR RESUPPORT (ISA) (OS)	30	30	30
ROOF SUPPORT ASSY. (RSA)	30	30	30
WALL BRACE KIT (WBK)	26	26	26
WALL SUPPORT PKG. (WSP)	40	40	40
INSULATED TEE (IT)	40	40	40
SUSPENDED BELOW ANY SUPPORT	20	20	20
FLASHING ROOF ASSY. (FRA)	16	16	16
MINIMUM CLEARANCE TO COMBUSTIBLES	2	INCHES MINIMUM ALL SIZES	

IN INSTALLING YOUR CHIMNEY AND WOOD-BURNING STOVE OR FIREPLACE SYSTEM, REMEMBER . . . SAFETY FIRST.

Sentinel Model SC factory-built chimneys are tested and listed by Underwriters' Laboratories, Inc., in accordance with UL Standard 103. The tests establish capability of continuous operation with 1000°F entering gases when installed at two inches clearance to combustible enclosure. Additionally, tests are made at gas temperatures of 1400°F for one hour, and 1700° for ten minutes to simulate performance during period of forced firing or excessive temperature.

These severe temperature tests establish two important characteristics of a chimney: that the metal parts are able to withstand very high temperatures; and that temperatures on building materials used to support and enclose the chimney are far below the ignition temperature of wood. Thus where a ceiling support has been framed at two inches clearance, for example it has also been tested this way and all temperatures of the wood around it, and of its own metal parts are within the limits allowed by UL-103. The combination of dense high quality insulation in the Sentinel Chimney, together with very careful part design thus allows 2 inches of clearance for all sizes of Sentinel chimney pipe.

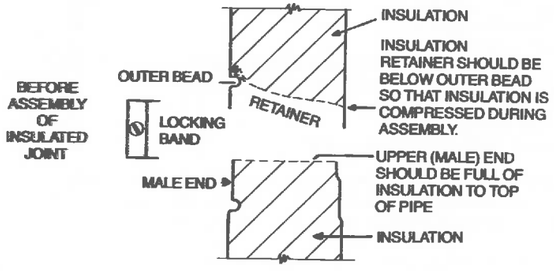
INSULATION SAFETY

The dense insulation of the Sentinel Model SC chimney not only reduces temperatures on adjacent materials to safe levels, but its thickness and weight also provide a "delay feature." Even if the gases inside the chimney suddenly become hot, the insulation must be brought up to temperature before it can transmit the heat to its surroundings. Also the insulation, once heated, holds the heat to maintain strong draft. For the same reason the inner flue is relatively unaffected by wind or low outdoor temperatures. This all adds to safety and reduces the rate and amount of creosote accumulation. The delay feature due to insulation weight is also helpful if there is a chimney fire.

CHIMNEY JOINT SECURITY

All insulated parts of the Sentinel chimney have a flexible insulation retainer at the lower end. When this is properly compressed by seating the locking band in its matching grooves, gas and heat leaks will be minimized. Further, the locking band provides maximum physical security and joint strength for both indoor and outdoor applications.

Always be sure that all locking bands are properly seated around the pipe.



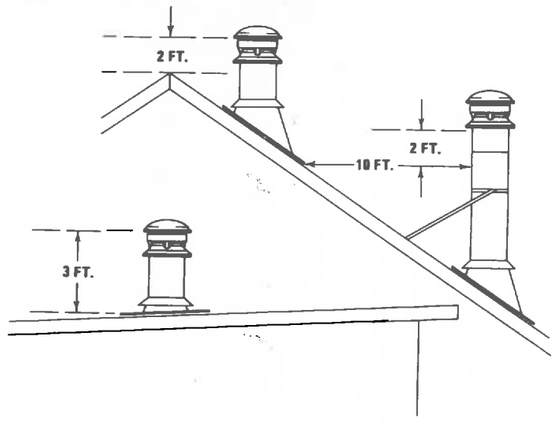
NOTE
When the insulation retainers melt or volatilize during high temperature operation, the compressed insulation will fill in.

CHIMNEY HEIGHT AND LENGTH

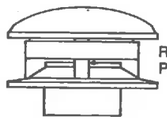
Refer to the Sentinel Chimney "Selector Chart" so you can combine the exact number of 12-, 18-, and 36-inch pipe sections for the desired chimney height.

A "Minimum Height Table" is available for oil appliances giving data you can use for correct draft. A chimney for one or more gas appliances must conform to size and height recommendations in the "Metalbestos Gas Vent and Chimney Sizing Handbook." Heights above the roof as given in the next paragraph are minimum; greater heights may be needed for reasons given.

Before beginning installation of the chimney, be sure that the selected height of the Chimney with Round Top termination is high enough to conform to building code requirements. Chimneys are required to extend at least 3 feet above the highest point where they pass through the roof of a building, and at least two feet higher than any portion of a building within 10 feet. (National Fire Protection Association Standards Nos. 31, 54 and 211, and The National Building Code of Canada.)



USE ONLY THIS TOP



Round Top
Part No. SC-CT*

IMPORTANT:
USE OF ANY OTHER CAP MAY ALLOW WATER TO ENTER INSULATION. USE ONLY THE SC-CT CAP SHOWN HERE.

3. Tie a plastic bag around the opening in the bottom of the chimney to collect debris coming down the chimney as you proceed. It is important that this bag be sealed to the chimney with masking tape as soot and fly ash are light powdery-like substances which can blow about easily.
4. Assemble the parts of the Chimney Cleaning Kit as directed in the installation instruction sheet packaged with the kit.
5. Insert the brush into the open top of the chimney and push or lower it progressively as you work it up and down with a twisting motion against the sides of the chimney flue.
6. The results will depend on your patience and the amount of effort you are willing to expend on the project. It may be necessary to empty the plastic bag several times before the chimney is clean.
7. Re-assemble the smoke pipe and remount the chimney top.
8. Check all chimney joints to be sure the locking bands have been properly replaced.

CREOSOTE

Creosote is the name given to the liquid or solid form of wood smoke after it coats the inside of your chimney. When wood burns in a smoky fire, the smoke becomes creosote when it condenses and sticks to any surface. Smoke is really very fine particles of wood chemicals which have not been in contact with enough heated air to burn to invisible gas. There are over forty different chemical constituents of creosote, and it is likely that no two creosote samples will ever be exactly the same. In appearance, it can be a dark brown wet runny fluid, or a thick tarry black liquid. On surfaces it can be a hard or tough black coating, or a foamy, flaky brittle layer depending on how it was formed and subsequently heated. Burning dry wood helps to avoid runny fluid creosote, but because water is always formed chemically during combustion, it will always be part of the creosote if it is condensing on a cold surface.

Creosote causes many problems. Some are visible while others are not. It can make trouble if:

1. It runs down the outside of the pipe to damage the finish on the metal.
2. It drips out of joints, damaging floors or furnishings.
3. It plugs up the chimney to cause poor combustion, smoking, soiling walls and indoor air pollution.
4. It catches fire in the chimney to cause possible chimney damage and damage to your home.

In regard to chimney fires, the Selkirk Metalbestos Sentinel Chimney has been laboratory tested without damage at temperatures as high as a typical chimney fire (1700°F). Other laboratory research has shown that creosote can ignite and burn with gas temperatures as low as 1400°F, without visible evidence of any kind. The vast majority of low temperature (under 1700°F) chimney fires may be beneficial because the stove user may be burning out creosote just by a brief hot fire every morning. Very rarely are temperatures high enough to cause internal metal damage, but even if this occurs the chimney insulation will still protect your home. The chance of a chimney fire causing serious damage however can be avoided by understanding your appliance and keeping the chimney clean.

The Underwriters' Laboratories of Canada has distributed an article on chimney fires. The quoted statements from this article which follow apply to any and all uses of wood as a fuel in the home.

"Creosote is formed primarily as a result of the incomplete combustion of wood. Combustion is improved by making sure that there is a plentiful air supply to the appliance. Some appliances, such as the airtight stoves, have a greater tendency to produce creosote because of their typical, slow-burning, smouldering fires. These stoves should be operated with the combustion air inlets sufficiently open to produce an active bright-burning fire. This is particularly important after fuel has been added.

Less creosote build-up will occur where the flue gas temperatures are sufficiently high to prevent condensation. Besides maintaining an active fire it is also preferable to avoid chimneys with low insulating capability such as is the case with the single wall stove pipe. It should nevertheless be emphasized that in no cases should insulation be placed around an installed chimney and the required clearances to combustible construction should be maintained, since this in itself may constitute a serious fire hazard.

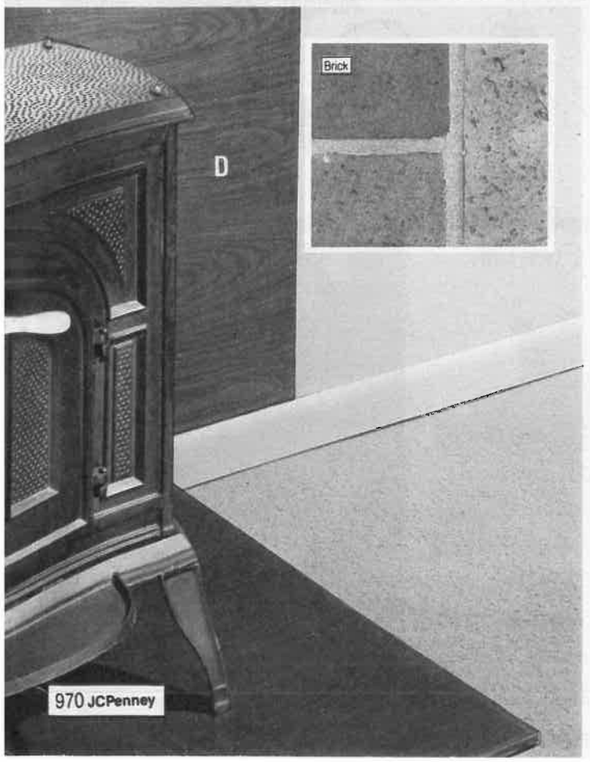
Notwithstanding the methods employed to reduce the rate of creosote formation, some will continue to be produced, and it is necessary to adopt a cleaning and inspection routine to prevent its accumulating to an unacceptable level. The rate of accumulation on a particular installation will vary, depending upon the respective influences of the factors noted above. It is therefore necessary to establish a routine of chimney cleaning on the basis of experience. With new installations or where there has been a significant alteration, such as changing the connected appliance, the chimney and flue pipe should be checked after two weeks, four weeks and at intervals thereafter until it is established how often cleaning will be necessary. Existing chimneys should be inspected and where there is an accumulation of creosote or soot they should be cleaned. Thereafter a similar routine of inspection should be followed until the required cleaning frequency can be established.

It should be recognized that, should there be a deposit of creosote or soot in a chimney, the likelihood of its ignition is increased by burning fuel at a higher than normal rate such as when paper, cardboard, Christmas tree branches, plywood or other scrap materials are burned.

Finally, if a chimney fire occurs, call the Fire Department. After the fire is out, professional advice should be obtained to establish the condition of the chimney and its acceptability for continued use, or need for repair or replacement."

To this quotation, if you think there was a chimney fire, it might be added that when it is safe to do so, check internal locations such as the attic and under the roof and keep watching for two or three hours. There may be delayed smouldering and subsequent ignition, even if the fire inside the chimney has been controlled.

WOODBURNING FIREPLACE AND HEATERS



Fire-in-the-Round

549.99 Black **599.99** Colors

MANUFACTGR: MALM

SAVE 10% on chimney pipe and stove pipe when you buy fireplace—pipe sold on page 976

A Freestanding Fireplace. Unique patented design gives you dramatic, swirling flames, plus it offers greater heating efficiency than most standard free-standing fireplaces. *Construction:* Unit is constructed of heavy-gauge steel. Choose from a matte black finish or two procelain-enamel finishes: 01 almond or 03 red. *State color number-and-name.* Glass door is constructed to resist high temperatures. *Controls:* See "How it Works" below right. Includes enough color-matched flue pipe to reach an 8-ft. ceiling. Order additional colored pipe below. Use with 8-in. Metalbestos® Chimney Kits, sold on page 976. Listed by ICBO (International Conference of Building Officials) # 1555. *Dimensions:* 44 in. high x 32 in. wide. Burns logs up to 24 in. long. *Installation:* Firebox is preassembled—using ordinary household tools you can position it directly on Non-Combustible Round Hearth Floor, sold below. See Clearance Information below. Read Penney Pointers about Home Energy Savers on opposite page; about Woodburning stoves, Heaters, and Fireplaces on page 968. Warranted by manufacturer—see page 827.

R 900C5760 A—Black. Del. Class C—see p. 804. Class C wt. 185 lbs. 549.99
R 900C5927 B—Colors. Del. Class C—see p.804. Class C wt. 185 lbs.....599.99

Additional Color-Matched 8-in. Diam. (Inside) Porcelain Enamel Flue Pipe. *State 01 almond or 03 red.*

R 904-5006 B—1-ft. long. Delivery weight 3 lbs. 24.99
R 904-5014 B—2-ft. long. Delivery weight 3 lbs. 39.99

B 4-Piece Firetool Set. Includes poker, brush, shovel, and 33-in. high stand. Matte black with chrome-plated steel handles.

R 900-6354 A—Delivery weight 18 lbs.....59.99

C Log Basket. Chrome-plated steel with matte black trim. Also ideal for holding magazines.

R 901-4705 A—Delivery weight 7.50 lbs.....29.99

CLEARANCE INFORMATION: All units must be placed on a non-combustible insulating surface of at least ⅜-in.-thick asbestos millboard or equivalent, or order Non-Combustible Hearth Floor below. Be sure to check local building codes and homeowner's insurance for additional requirements. See Penney Pointers on opposite page for additional information and clearance from non-combustible walls.

Fireplace	Clearance from Edge of Heater/ Fireplace to Combustible Wall		Clearance from Heater Door to Outside Edge/Clearance from Fireplace to Edge of Non-Combustible Floor		
	Back	Side	Front	Side	Back
(A) 900C5927	36 in.	36 in.	16 in.	9 in.	0 in.
900C5760	36 in.	36 in.	16 in.	9 in.	0 in.

Wall/Floor Shields and Hearth Floor

D Panels are made of 0.012 thick sheet metal over ⅜-in. mineral board. Help reduce required wall clearance by 58% on UL listed heaters/fireplaces/stoves—permit you to position units closer to combustible walls. Panels may be used either as a wall or floor protector for any stove sold in this Catalog; can be connected to increase the size of protected area. Cannot be cut. NOTE: These panels do not allow you to reduce the floor area which must be protected when unit is installed—see clearance information. To order; measure width and height of stove to obtain the required wall or floor protection (see instructions and diagram below). Easy-to-install—order floor connector and wall spacer kit below; instructions included. 3 patterns: 01 black; 02 brick; 03 woodgrain. *State pattern number-and-name.* UL listed. Del. Class C—see page 804.

R 904C3548 B—17x52 in. high. Class C Wt. 9.30 lbs.....39.99
R 903C8928 B—26x34 in. high. Class C Wt. 9.30 lbs.....24.99
R 903C8936 B—34x34 in. high. Class C Wt. 12.10 lbs.....29.99
R 903C8944 B—34x44 in. high. Class C Wt. 15.80 lbs.....34.99
R 903C8951 B—36x52 in. high. Class C Wt. 18.70 lbs.....39.99

Wall Spacer Kit. Must be used to install shield on combustible walls. One kit attaches a 36x52-in. panel.

R 904-3530 A—Del. wt. 0.50 lb. ..... Kit 6.99

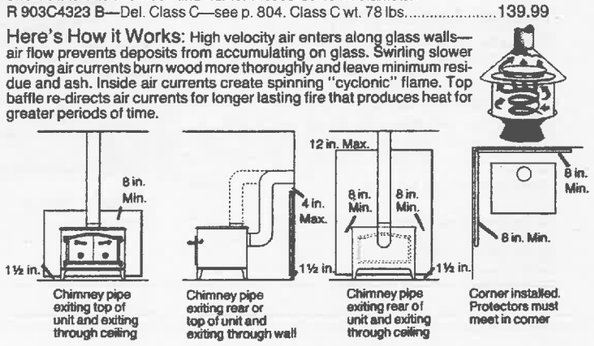
Floor Board Connector Kit. Permits you to connect two large panels to increase protected floor area. Includes 9 connectors.

R 904-3522 A—Del. wt. 0.60 lb. ..... Kit 2.99

E Non-Combustible Round Hearth Floor is an ideal companion for our Carousel Fireplace, [A] above. Just set it in place on a firm, level surface—even on top of carpeting. Made of 2 in. thick steel-reinforced concrete with an insulating styrofoam core-for maximum protection. Choose from two finishes: 01 white braick or 02 red brick. *State finish number-and-name.* Measures 48 in. diameter.

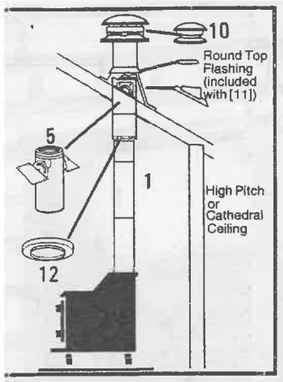
R 903C4323 B—Del. Class C—see p. 804. Class C wt. 78 lbs.....139.99

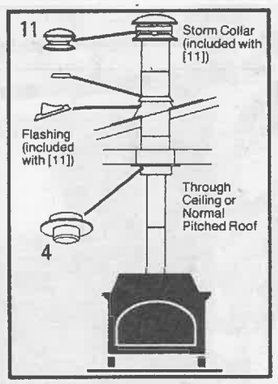
Here's How it Works: High velocity air enters along glass walls—air flow prevents deposits from accumulating on glass. Swirling slower moving air currents burn wood more thoroughly and leave minimum residue and ash. Inside air currents create spinning "cyclonic" flame. Top baffle re-directs air currents for longer lasting fire that produces heat for greater periods of time.

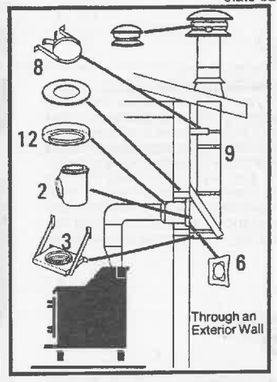


CHIMNEY AND STOVE PIPE

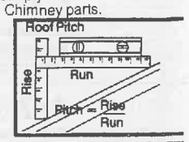
SAVE 10% on Pipe when you buy any stove or fireplace on pages 968 to 974. Simply state catalog numbers and deduct 10% from Chimney parts.



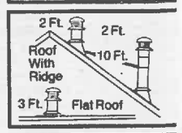




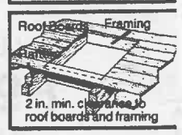
Determine type of installation by checking roof pitch (see diagram). Determine type of pipe needed (our better or best—see copy below)



Check parts—be sure you have adequate chimney support. NOTE: unsupported chimney must not exceed 20 ft. above or 10 ft. below support.



Check roof clearance and determine how much pipe to order. 2-in. minimum clearance is required from chimney wall to roof boards and framing. Check local building codes.



1 to 10 Metalbestos® All-Fuel Chimney Systems. Two Complete, Specialized Systems for Venting Gas, solid and liquid fuel-fired residential appliances including ranges, circulating heaters, fireplace stoves airtight stoves, and coal stoves. Read more below to determine which type of chimney best suits your needs. All chimneys have outer linings separated by 1 thick insulation to help prevent ignition of combustible materials as close as 2 in. from casing. Stainless steel casings resist corrosion. All parts are UL listed. Delivery class A—see page 804. 15-lb. rate.

How Much Chimney Pipe to Order for Our Best System

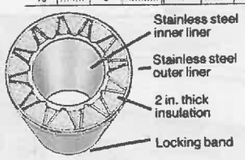
In 18- and 36-in. lengths. Use chart below to determine how many pieces of each length you will need. Chart figures compensate for pipe overlap of 1 in. CAUTION: add extra 18 in. of length of chimney pipe for through-the-wall installation.

Total Ht. of Chimney		Quantity Pipe Needed		Total Ht. of Chimney		Quantity Pipe Needed		Total Ht. of Chimney		Quantity Pipe Needed		Total Ht. of Chimney		Quantity Pipe Needed	
Ft.	In.	36 in.	18 in.	Ft.	In.	36 in.	18 in.	Ft.	In.	36 in.	18 in.	Ft.	In.	36 in.	18 in.
4	.....	1	.....	11	.....	3	1	17	6	5	1	24	.....	8	.....
5	.....	1	1	11	6	3	1	18	.....	6	.....	24	6	8	.....
5	6	1	1	12	6	4	.....	19	.....	6	.....	25	6	8	1
6	6	2	.....	13	.....	4	.....	19	6	6	1	26	.....	8	1
7	.....	2	.....	14	.....	4	1	20	.....	6	1	27	.....	9	.....
8	.....	2	1	14	6	4	1	21	.....	7	.....	.....	.....	.....	.....
8	6	2	1	15	6	5	.....	22	.....	7	.....	.....	.....	.....	.....
9	6	3	.....	16	.....	5	.....	22	6	7	1	.....	.....	.....	.....
10	.....	3	.....	17	.....	5	1	23	.....	7	1	.....	.....	.....	.....

How Much Chimney Pipe to Order for Our Better System

In 18- and 30-in. lengths. Use chart below to determine how many pieces of each length you will need. Chart figures compensate for pipe overlap of 1¼ in.

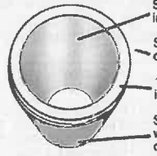
Total Ht. of Chimney		Quantity Pipe Needed		Total Ht. of Chimney		Quantity Pipe Needed		Total Ht. of Chimney		Quantity Pipe Needed	
Ft.	In.	18 in.	30 in.	Ft.	In.	18 in.	30 in.	Ft.	In.	18 in.	30 in.
1	6	1	.....	10	1	2	3	17	8	4	5
2	6	.....	1	10	5¾	4	2	18	3⅛	1	7
2	10¾	2	.....	11	1	1	4	18	8	3	6
3	10¾	1	1	11	5¾	3	3	19	¾	5	5
4	3½	3	.....	12	1	.....	5	19	8	2	7
4	10¾	.....	2	12	5¾	2	4	20	⅜	4	6
5	3½	2	1	12	10¾	4	3	20	8	1	8
5	8⅛	4	.....	13	5¾	1	5	21	¾	3	7
6	3½	1	2	13	10½	3	4	21	8	.....	9
6	8⅛	3	1	14	3¼	5	3	22	¾	2	8
7	1	5	.....	14	10¼	2	5	22	5½	4	7
7	8½	2	2	15	3⅛	4	4	23	⅜	1	9
8	1	4	1	15	10½	1	6	23	9	5	7
8	8⅛	1	3	16	3¼	3	5	24	⅜	.....	10
9	1	3	2	16	10½	.....	7	24	5½	2	9
9	8¼	.....	4	17	7⅜	2	8	24	10¼	4	8



Our Best Chimney System

Our best pipe is specially designed to reduce the chimney fire hazards due to creosote build-up from the slow, low-temperature burning associated with air tight appliances and dampered stoves and heaters. Greater insulation space and locking band connectors help eliminate "hot spots" inside the chimney. Order from chart at right.

SENTINEL



Our Good Chimney System

Designed for venting gas fireplaces, stoves and heaters and open-faced woodburning appliances. Twist-lock connection makes installation extra easy. Order from chart at right. Not recommended for coal stoves.

Chimney Accessories	Our Best Chimney System						Our Good Chimney System					
	6" Inside Diam.	Lbs.	Each	8" Inside Diam.	Lbs.	Each	6" Inside Diam.	Lbs.	Each	8" Inside Diam.	Lbs.	Each
[1] 18-in. Chimney Pipe Our Best System is available in 36-in. length, our Good System in 30-in. length Chimney Pipe	R 903-9520 A	19.00	34.99	R 903-9769 A	25.00	54.99	R 900-9101 A	11.00	21.99	R 961-7291 A	13.00	34.99
[2] "T" with Cleanout Cap. Connects horizontal stovepipe & chimney pipe.	R 903-9678 A	24.00	64.99	R 904-0502 A	33.00	84.99	R 900-9119 A	16.60	35.99	R 961-7390 A	21.00	54.99
	R 903-9686 A	21.00	99.99	R 904-0510 A	31.00	134.99	R 900-9127 A	11.00	59.99	R 961-8992 A	15.00	94.99
[3] Wall Support. Supports [2] "T" to chimney.	R 903-9694 A	5.00	39.99	R 904-0528 A	5.00	59.99	R 900-9135 A	8.40	29.99	R 961-7929 A	10.10	39.99
[4] Flat Ceiling Support. Connects horizontal stovepipe & chimney pipe.* Black Finish.	R 903-9702 A‡	11.00	59.99	R 904-0601 A‡	13.00	79.99	R 900-9168 A	7.00	19.99	R 903-1428 A	8.00	29.99
[5] Pitched Ceiling Support. Connects horizontal stovepipe & chimney pipe. Includes 18-in. pipe, 2 thimble plates, 2 roof brackets, hdwe.	R 903-9744 A§	7.00	54.99	R 904-0676 A§	8.0	69.99	R 900-9184 A	16.00	34.99	R 961-7960 A	18.00	49.99
[6] Wall Spacer. Supports horizontal stovepipe, and maintains clearance thru wall. Use with [2] & [3].	R 903-9710 A	6.00	5.99	R 904-0684 A	7.00	8.99	R 900-9192 A	4.00	3.99	R 961-8042 A	5.00	6.99
[7] Joist Shield. For clearance through more than 1 wall.	R 903-9728 A	8.00	19.99	R 904-0692 A	9.00	29.99	R 900-9200 A	5.00	14.99	R 904-3068 A	6.00	17.99
[8] Chimney Stabilizer. For every 8 ft. above [3].	R 903-9736 A	2.00	12.99	R 904-0700 A	2.00	19.99	R 900-9218 A	8.00	9.99	R 961-4181 A	9.00	11.99
[9] Locking Joint Band. Reinforces joints—increases stability of free-standing round chimney above support.	.....	.....	.....	.....	.....	.....	R 900-9234 A	1.00	3.99	R 961-8083 A	1.50	4.99
[10] Chimney Top. Completes installation of any type.	R 903-9751 A	5.00	24.99	R 904-0726 A	6.00	45.99	R 900-9242 A	3.20	24.99	R 961-8877 A	6.00	45.99
[11] Round Chimney Top Kit—for flat or pitched roof. Includes top, storm collar, and adjustable flashing.	R 904C1591 A	26.00†	94.99	R 904C1609 A	30.00†	129.99	R 900C9259 A	8.75†	44.99	R 903C0792 A	10.00†	74.99
[12] Trim Collar	.....	.....	.....	.....	.....	.....	R 904-6764 A	6.00	17.99	R 904-6780 A	8.00	22.99
Finishing Collar	.....	.....	.....	.....	.....	.....	R 904-6772 A	5.00	7.99	R 904-6806 A	7.00	9.99

‡903-9702 and 904-0601 include Square Plate Assembly, 18-in. Starter Section of Pipe, Decorator Sleeve, Smoke Pipe Adapter, Black Locking Band, and Black Base Cap.

§903-9744 and 904-0676 include Base Cap, Support Band 2 Roof Brackets, 2 Roof-Angle Adjusters, Smoke Pipe Adjuster, and Locking Band Handware.

NOTE: Each Chimney System is separate and parts are not interchangeable.

FREE INSTALLATION BOOKLET on how to install a safe chimney. Just call or write Customer Service, see page 804, and we'll send you your copy.

†Delivery Class C—see page 804.
***Supports up to 85 ft. of chimney.**

Single Wall Stovepipe

Matte Black Stovepipe for connecting fireplace or stove to chimney system. 24-gauge steel. Pipe is used to connect a stove to masonry chimney or to an insulated chimney pipe. CAUTION: black stove pipe should not pass through combustible walls or used as an exterior pipe. Delivery Class A—see page 804.

Stovepipe	6" Inside Diam.	Lbs.	Price	8" Inside Diam.	Lbs.	Price
90° Elbow	R 901-7708 A	2.0	8.99	R 901-7906 A	2.99	11.99
1' pipe	R 901-7682 A	2.2	8.99	R 901-7880 A	2.75	9.99
2' pipe	R 901-7690 A	4.5	9.99	R 901-7898 A	4.00	11.99
5' pipe with damper	R 900-6214 A	3.0	17.99	.....	.....	.....

Of Course You Can Charge It—See Page 811

RESIDENTIAL APPRAISAL CARD

DISTRICT NO.

OWNER

Ralph Jansen & w.,
3805 W Kirchoff Ave
Milwaukee 9, Wisc.

420 #1

420 Lot 1 Blk 2
Kirkwood Subd.
SW¼ Sec 12-8-21E.

DESCRIPTION

SALES INFORMATION

Date	Consideration	Volume	Page	Remarks

BUILDING PERMIT RECORD

Date	Number	Amount	Purpose

RENTAL INFORMATION

No.	Year	Full Rental Val.	Vac. Fac.	Adj. Rent. Val.	Average	3 Yr. Av.
	19	$	$	$	$	
	19					
	19					

GENERAL INFORMATION

Appraisal—Date Am't. $ By
Appraisal—Date Am't. $ By
Appraisal—Date Am't. $ By
Owner's Estimate: Land Bldgs Equip Total
Asking Price $ Offer
Insurance $ Mortgage $ Year

LAND VALUE FACTORS

Width
Average Depth
Facing on
Corner
Exposure: N S E W
Alley: Size Rear
Distance From:
Bus or Car Line
Center of City
Grade School High School
Church
Zone
Neighborhood: Exc. Good Avg.
Poor Stable
Declining Improving
Age of Neighborhood

Surface
Grade
Pavement
Sidewalk
Curb and Gutter
Water Sewer
Gas Electricity

LAND IMPROVEMENTS

Retaining Walls $
Cement Drives and Walks $
Fences $
Shrubs, Trees and Lawn $
Wells $
Septic Tanks $
Total $

COMPUTATION OF LAND VALUE

Width		
Front Foot Unit	$	
Value Full Depth	$	
Depth Factor %		
Adjusted Land Value	$ 4000	
Add Alley Value	$	
Add Corner Value		
Add Land Impts.	500	
Total Land Value	$ 4500	

Remarks:

SUMMATION OF VALUATION PROCESSES

	Valuation from Income	Adjusted Sound Value	Valuation from Income	Adjusted Sound Value
Date				
Land				
Improvements				
Total				

ASSESSMENT SUMMARY

By Whom Assessed	JFC					
Date	1964					
Land	4500					
Improvements	15500					
Total	20,000					

8
9 2
65

WIS. DEP'T OF TAX. PROP. FORM 1111
688 REV. 5/61

MALM FIREPLACES, INC.

368 YOLANDA AVENUE • SANTA ROSA, CALIFORNIA 95404 • 707-546-8955

ASSEMBLY
and
INSTALLATION INSTRUCTIONS

SPIN-A-FIRE

I.C.B.O No. 1555

Please read instructions thoroughly before proceeding with installation.

The Royal Family of Fireplaces

ASSEMBLY INSTRUCTIONS

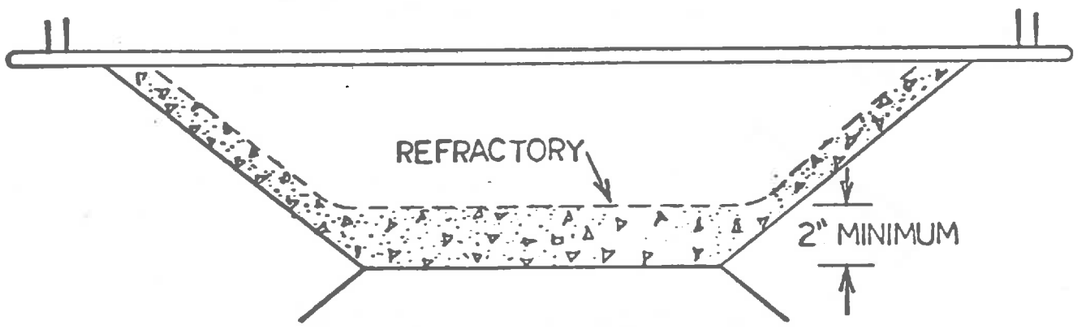
1. Remove contents of cartons and inspect for damage.

2. Lower hood onto basic unit and align large holes in hood ring with bolts on basic unit. This will align the nine remaining securing holes.

3. After the hood is in position, secure with the [redacted] 14 x 3/4" hex head sheet metal screws provided.
18

REFRACTORY MIXING INSTRUCTIONS

Included with each fireplace is the Malmcrete refractory. Mix water with all of the bags of refractory and pour into fire box. Mix to consistency that is easy to handle for proper shaping. Trowel to the shape of the bowl as shown in the drawing below. Allow to dry for 48 hours and build your first fire slowly to allow proper curing of the refractory.



FIREPLACE AND CHIMNEY INSTALLATION

The following items are included with each fireplace:

Chimney connector pipe for standard 8 foot ceiling.

2 - 8 x 24 Double Bead

1 - 8 x 24 Single Bead

Malmcrete for lining firebox hearth (3 bags).

CHIMNEY

The Spin-A-Fire is designed to be connected to an eight (8) inch, U.L. listed low heat appliance chimney, as defined in Chapter 37 of the Uniform Building Code. The chimney should extend at least three feet above the highest point where it passes through the roof of the building and at least two feet higher than any portion of the building within ten feet of the chimney. This fireplace is not designed or approved for mobile home or tr iler installation.

HEARTH EXTENSION

A non-combustible flooring material such as asbestos millboard or equivalent minimum thickness of 3/8 inches, must be installed beneath the fireplace. This flooring material must extend in front of the fireplace as described in Figure No. 1 and Table No. 1, Page 5.

INSTALLATION

1. Install the listed chimney per the chimney manufacturers' specifications. NOTE. Insure that when the fireplace is connected to the chimney, that all clearances to combustibles will be met. Refer to Figure No. 1 and Table No. 1 on Page 5.

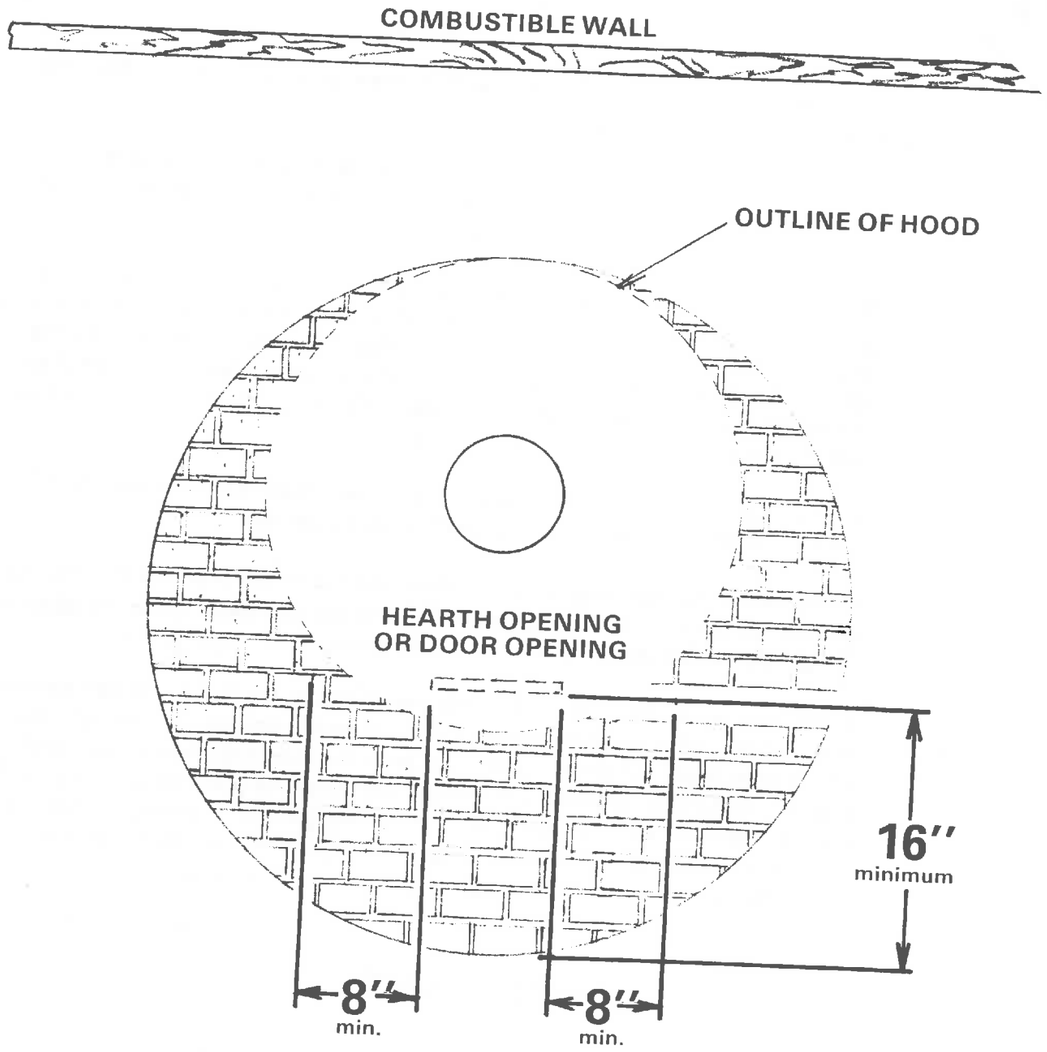
2. Position fireplace on top of non-combustible flooring material, directly beneath chimney.

3. Place the single beaded length of chimney connector pipe into the listed chimney at the ceiling. It may be required for one person to hold this pipe in place until all of the chimney connector pipe is in place.

4. Place the first section of chimney pipe on top of fireplace collar. Insure that the seam of the pipe is adjacent to the rear of the fireplace.

5. Lower the length of pipe at the ceiling onto the lower sections of pipe until the connection is complete.

6. Insure that the seams on all the pipe are aligned and adjacent to the rear of the fireplace.



WHEN USING THE "ASTRO HEARTH" . . .

* UNIT MUST BE PLACED IN POSITION ON THE HEARTH SO THAT A MINIMUM OF 16 INCHES IN FRONT AND 8 INCHES TO EACH SIDE OF THE FIREPLACE OPENING IS MAINTAINED.

THE REQUIRED CLEARANCES AGAINST COMBUSTIBLES MUST BE MAINTAINED AS STATED IN THE INSTALLATION INSTRUCTIONS FURNISHED WITH THE UNIT. HEARTH MAY BE INSTALLED ON COMBUSTIBLES.

★ THE 48" 'ASTRO HEARTH' MEETS OR EXCEEDS THE REQUIRED DIMENSIONS SPECIFIED FOR HEARTH EXTENSIONS FOR THE SPIN-A-FIRE AND 32" SQUIRE FIREPLACE STOVES.

SELKIRK METALBESTOS

WallaceMurray

Model SC Sentinel Chimney

Installation Instructions Ceiling Support Package

SHEET S-2

INSTALLATION INSTRUCTIONS

STARTER LENGTH, PART NO. 6SC-18SL, 7SC-18SL, 8SC-18SL
CEILING SUPPORT PACKAGE, PART NO. 6SC-CSP, 7SC-CSP, 8SC-CSP

Ceiling Supports use an 18-inch long Starter Length with attached Support Band to start a bottom-supported chimney. The Support Package (CSP) includes: Plate assembly with straps, Locking Band, Starter Length, Black Matte Basecap, Smoke Pipe Adapter and Decorator Sleeve.

The CSP has a square firestop plate for use in a framed opening with or without a finished ceiling. The plate is two inches wider than the inside framing dimensions.

The Basecap must be installed at the lower end of any suspended insulated chimney section to prevent loss of insulation.

STEPS IN INSTALLATION

1. Frame a level square opening, with inside dimensions as tabulated for 2 inches clearance to combustibles: 6" size 14-1/2 x 14-1/2; 7" - 15-3/4 x 15-3/4; 8" - 17-1/2 x 17-1/2.
2. Place plate assembly through opening from below, with straps pointing up through opening, and main plate (with diagonally bent edges) inside framed opening. See Fig. 1.
3. Attach to ceiling or to framing using screw holes in round or square firestop plate.
4. Pull straps tight from above and bend them over framing.
5. Using two eight penny nails per strap, nail into upper edge and to outside of framing. See Fig. 2. Check that firestop plate is level and flush against framing or ceiling.
6. Lower the 18" Starter Length (lower Locking Band must be off) through the support so that the Support Band screw tabs are in opposite corners of the main plate.
7. Additional chimney lengths may now be installed above this support to a total height of 40 feet.
8. Place Smoke Pipe Adapter (with flange up) into Basecap and place this assembly in the lower end of the chimney. Secure with the Locking Band. The stub end of the adapter is intended to fit inside of the connector from a solid fuel appliance, thus preventing condensate drips at the chimney connection. See Fig. 4.
9. Secure the connector from the appliance to the Smoke Pipe Adapter using sheet metal screws.
10. In an open attic, use an Insulation Shield, Part No. SC-AIS of proper size to keep the framing around the support clear of blown in insulation.

IMPORTANT: Sentinel Chimney Ceiling Supports have been temperature tested using a vertical single wall connector. Ceiling surface temperatures within and around the support were within limits allowable in accordance with UL Standard 103. These tests establish that connector clearances to combustible may be less than those permitted for untested connector installations.

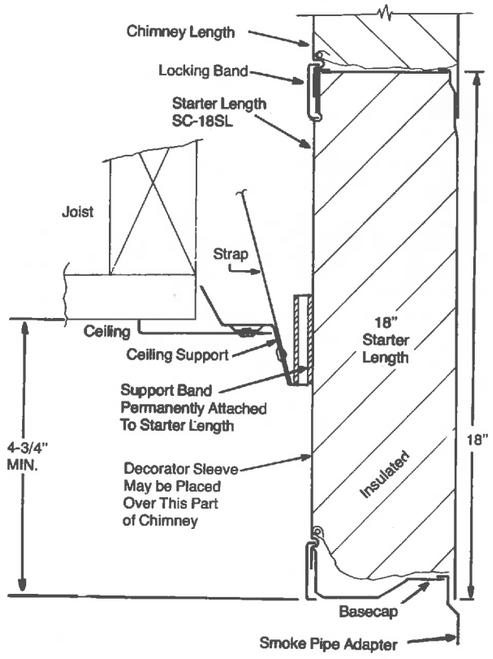


Fig. 1 Cross-Section of Ceiling Support Installation

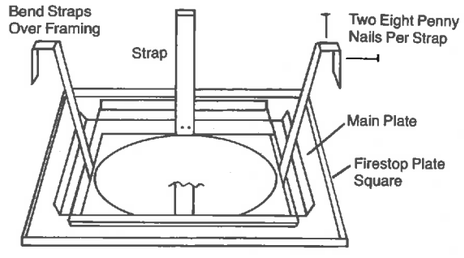


Fig. 2 Ceiling Support, SC-CSP

SELKIRK METALBESTOS

WallaceMurray

Model SC Sentinel Chimney

Installation Instructions
Flashing Roof Assembly

SHEET S-6

FLASHING ROOF ASSEMBLY

Adjustable Pitch; Flat to 6/12

(Part Nos. 6SC-FRA-A, 7SC-FRA-A, 8SC-FRA-A)

Tall Cone Flat Flashing:

(Part Nos. 6SC-FRA-F, 7SC-FRA-F, 8SC-FRA-F)

Adjustable Pitch; 7/12 to 12/12

(Part Nos. 6SC-FRA-P, 7SC-FRA-P, 8SC-FRA-P)

The Flashing Roof Assembly is used for a round chimney termination in either of two ways:

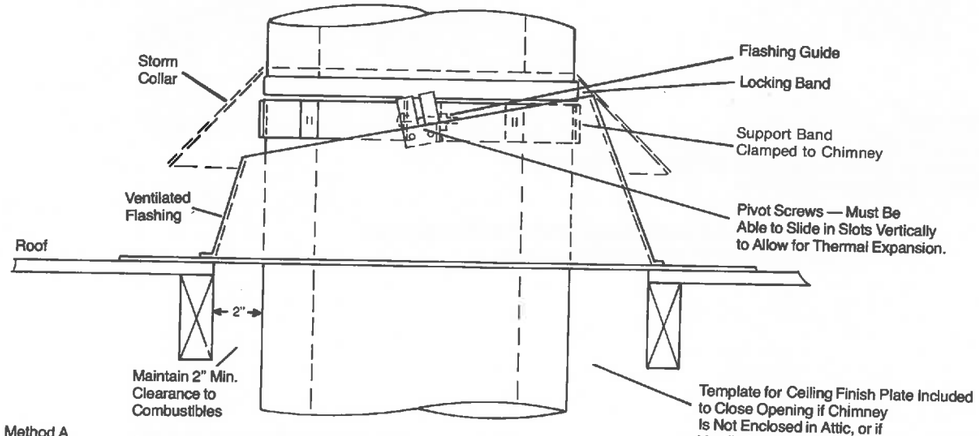
A. To stabilize and center the chimney (Method A) where it passes through its ventilated flashing. For this application, the Support Band is clamped to the outside of the chimney, but the pivot screws are simply rested (with untightened nuts) in the flashing guide to be able to slide in the slots.

B. To support and suspend (Method B) a length of chimney (up to 16 ft.) directly from the upper end of the flashing. Clamping the Support Band to the chimney and between the Flashing Guides provides simultaneous centering and stability. The Flashing Roof Assembly consists of the Flashing (Part No. AF or as necessary for greater roof pitch), Storm Collar (Part No. SC-SC) and Support Band (Part No. SC-SB). These are used to provide weather protection for the roof opening, attic ventilation (if desired) plus chimney centering, support and stability at the roof penetration.

A. BOTTOM SUPPORTED CHIMNEY

For installation of the Flashing Roof Assembly for a bottom-supported chimney, complete steps (1) through (6) below before permanently installing the roofing material.

1. Finish the chimney to a height of 2 or 3 feet above the roof structure. Maintain 2-inch clearance to combustibles where it passes through the roof.
2. Place a Flashing suitable for the roof pitch over the chimney pipe and center it around the chimney. Do not nail down as yet.
3. Assemble the Support Band loosely around the pipe including the pivot screws.
4. Slide the Support Band into position with pivot screws at the bottom of the slots in the Flashing Guides. Be sure that takeup nuts on the long bolts of the Support Band are accessible for tightening.
5. If the Support Band must be repositioned because of interference with a Locking Band, interchange chimney lengths to allow the Support Band to be clamped to the pipe body. Remember that the Support Band is used for centering and to resist side loads only. In this method it does not carry any vertical load.
6. After making sure that the chimney is vertical with correct clearances, the flashing may now be installed permanently. Nail it securely to the roof framing or boards through the side and top flanges (DO NOT nail through the lower flange). Use nails with a neoprene washer or cover nail heads with waterproof mastic.
7. Finish roofing around chimney, covering the side and upper areas of the flange with roofing material. However, be sure the lower unnailed portion of the flange covers the roofing material. (See Illustration of Method B)
8. Install double-locked nuts at the ends of the pivot screws leaving clearance so that these screws can slide up in the slots and tighten the Support Band to chimney.
9. Place the Storm Collar down over the chimney until it is level and in contact with the Flashing Guides or with the upper edge of the locking band. Tighten the Storm Collar for a snug fit and work in waterproof mastic at the point of contact between the pipe and the Storm Collar.



Method A

Support Band Used to Center and Stabilize Bottom-Supported Chimney

SELKIRK METALBESTOS

WallaceMurray

Model SC Sentinel Chimney

Installation Instructions
Round Top Termination
Spark Arrester
Bracing Requirements

SHEET S-7

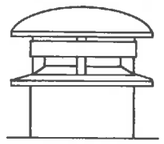
ROUND TOP

(Part Nos. 6SC-CT, 7SC-CT, 8SC-CT)

Round Tops have a nominal diameter expanding utility attachment adaptable to Selkirk Metalbestos Chimney and other products of like internal diameter. To attach securely:

1. Loosen screw on top of collar and squeeze bottom to allow collar to enter pipe.
2. Press down evenly on lower skirt until it contacts upper end of pipe. Do not press on upper dome.
3. Tighten screw on collar to expand lower end and clamp to inside of pipe. Keep tightening screw until collar is expanded and fully tight.

Round Top Termination
For Maximum Rain Protection



Round Top, Part No. SC-CT

For Any and All Types of Chimney Installation

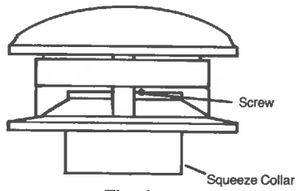


Fig. 1

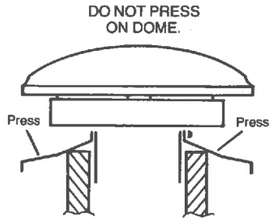


Fig. 2

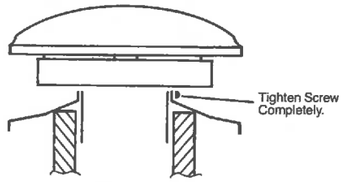
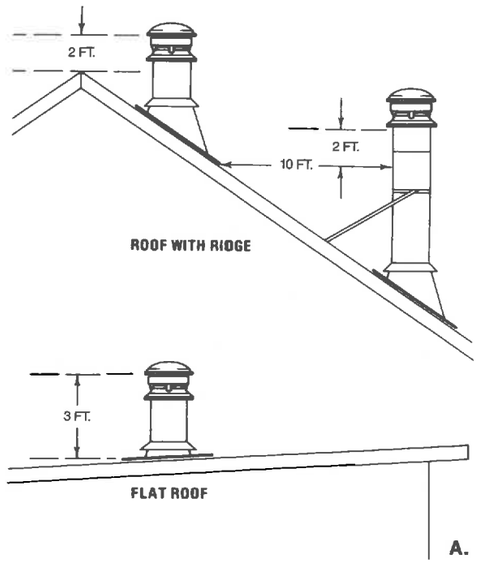


Fig. 3

IMPORTANT: RULES FOR CHIMNEY HEIGHT AND TERMINATION

1. Before beginning installation of the chimney, be sure that the selected height with Round Top termination is high enough to conform to building code requirements. Chimneys are required to extend at least 3 feet above the highest point where they pass through the roof of a building, and at least two feet higher than any portion of a building within 10 feet. (National Fire Protection Association Standards Nos. 31, 54 and 211.)
2. Chimney height must be sufficient for proper appliance draft. Many oil and coal appliances have minimum draft requirements which determine the needed height. This may be greater than the height called for by Rule 1. For gas vents, refer to Gas Vent and Chimney Sizing Handbook, or to National Fuel Gas Code.
3. Zero clearance and other types of fireplaces also may specify minimum chimney heights.
4. If the chimney is for an appliance in a one-story part of a two-story house, it should be as high as the heated part of the house. Otherwise it may be subjected to reverse flow and may be difficult to prime or start in operation.
5. Use only the Selkirk Metalbestos SC-CT chimney top. This top has been designed to provide free flow in still air, good updraft performance in winds, rain protection and resistance to heat and corrosion. No other top design can offer the same level of performance and protection. Do not believe claims that certain designs can prevent creosote.



SELKIRK METALBESTOS

WallaceMurray

MODEL SC SENTINEL CHIMNEY

Guide to Parts, Kits, Assemblies and Packages and to Applicable Instructions

SHEET S

IMPORTANT: The parts, kits, assemblies and packages shown here are essential to a correct installation. They must be installed strictly in accordance with their applicable instructions. With some of these groups, two or more different Instruction Sheets may be necessary. For your protection, read and study these carefully before beginning an installation. If you don't find the sheets referenced here, obtain them from your dealer, distributor or from Selkirk Metalbestos.

The necessary installation instruction sheets are called out in the boxes next to the illustrations.

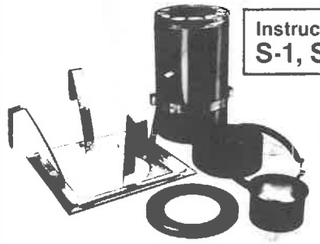
CAUTION: MODEL SC SENTINEL CHIMNEY MUST BE PROPERLY SUPPORTED AND SPACED. DO NOT USE PIPE BY ITSELF OR ATTEMPT TO FABRICATE YOUR OWN SUPPORTS.

CHIMNEY LENGTHS
(SC-36, SC-18, SC-12, SC-9)

FINISHED CEILING SUPPORT KIT

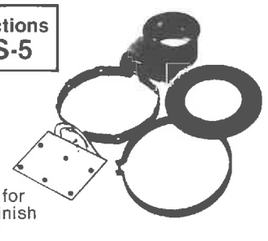
Consisting of Round Top, Flashing Roof Assembly Adjustable and Ceiling Support Package (SC-FCSK)

Instructions S-1, S-2, S-6, S-7



Instructions S-1, S-2

CEILING SUPPORT PACKAGE
(SC-CSP)



Instructions S-1, S-5

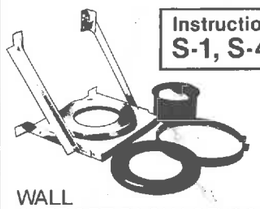
Template for Ceiling Finish Plate

ROOF SUPPORT ASSEMBLY
(SC-RSA)

WALL SUPPORT KIT

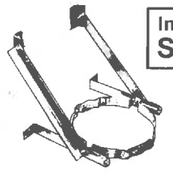
Consisting of Round Top, Wall Support Package, Wall Band, Insulated Tee, 8" Decorator Sleeve, Finished Wall Plate (SC-WSK)

Instructions S-1, S-3, S-4, S-7



Instructions S-1, S-4

WALL SUPPORT PACKAGE (SC-WSP)



Instructions S-4

WALL BRACE KIT (SC-WBK)

Instructions S-3

WALL BAND
(SC-WB)

Instructions S-3

30° INSULATED ELBOW
(SC-EL)

Instructions S-4

INSULATED TEE (SC-IT)

Instructions S-4

FINISHED WALL PLATE
(SC-FWP)

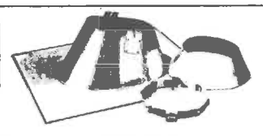
Instructions S-3

Instructions S-7

ROUND TOP
(SC-CT)

INTERIOR RESUPPORT ASSEMBLY/ OFFSET SUPPORT
(SC-ISA/OS)

Instructions S-1, S-6



FLASHING ROOF ASSEMBLY ADJUSTABLE
(SC-FRA-A)

Instructions S-1, S-6

FLASHING ROOF ASSEMBLY FLAT (SC-FRA-F)

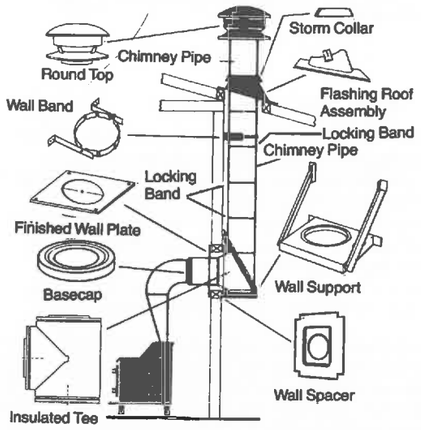
Instructions S-3

JOIST SHIELD
(SC-JS)

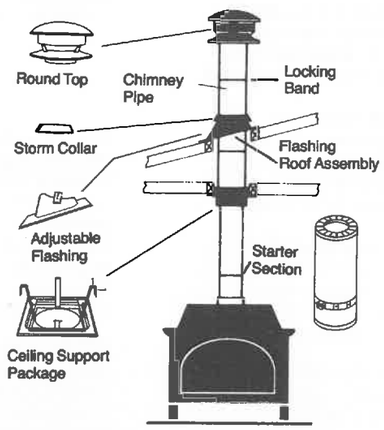
HAVE YOU SELECTED THE RIGHT PARTS?

The chimney for your fireplace or stove will probably take one of the following configurations. Each of these chimney systems requires a different combination of parts to complete a satisfactory chimney assembly. These fittings are illustrated and labeled for your convenience. It is important that you have the correct combination of parts and sufficient chimney pipe *before* you start installation. Be sure to read and follow the instructions with your fireplace or stove for any special chimney needs and other installation requirements.

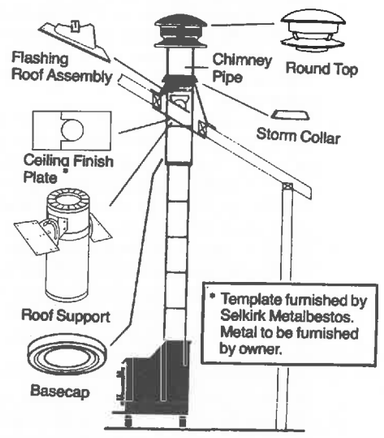
Through an Exterior Wall



Through a Ceiling & Normal Pitch Roof



Through a High Pitch or Chalet Ceiling



USE LOCKING BANDS AT ALL CHIMNEY JOINTS

INSTALLATION INSTRUCTIONS

A correctly installed chimney system that is properly used and systematically maintained is one of the best investments a homeowner can make if he intends to burn wood as a fuel. Installation of a chimney inside the house has five important parts.

1. Proper Support, With Access for Inspection and Maintenance.
2. Observe Clearance to Combustible Material for Smoke Pipe or Connector.
3. Observe Clearance of Insulated Pipe.
4. Firestopping.
5. Joint Security.

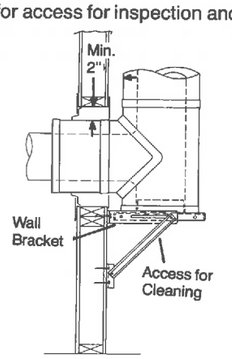
WARNING

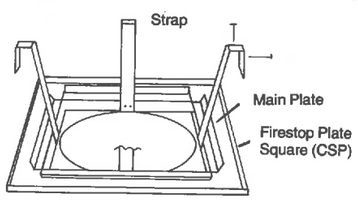
Failure to follow these instructions could cause a malfunction of your heating system. This could result in death, serious bodily harm and property damage.

PROPER SUPPORT

Always provide for access for inspection and cleaning.

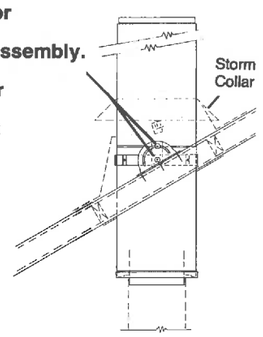
1. Wall Support Package Insulated Tee Part Nos. SC-WSP and SC-IT (see sheet 4)





2. Ceiling Support (see sheet 2) Part No. SC-CSP, and Starter Length, Part No. SC-18SL for a Vertical Supported Chimney

3. Flashing or Roof Support Assembly. Part No. SC-FRA or SC-RSA (see sheet 5 or 6)



OBSERVE CLEARANCE TO COMBUSTIBLE MATERIAL

SMOKE PIPE OR SINGLE WALL MATERIALS

The smoke pipe or connector is the sheet metal pipe between your appliance and the chimney. This may be provided as a special pipe or you may have to buy it separately. You should keep in mind that this pipe which is usually only single wall material, can be a source of additional heat, but it can also be very dangerous.

Keep the following factors in mind when selecting single wall connector pipe, as well as elbows and other fittings.

- Joints of parts to be connected should overlap at least one inch so that they can be securely attached with sheet metal screws.
- When properly overlapped, the joints should be as airtight as possible.
- If the pipe has lengthwise snap-lock seams, put some together and then check the joints between sections and fittings for tightness and overlap.
- Remember that protective finishes such as paint or galvanizing may be ineffective if the pipe is overheated. The heavier the pipe, the longer it will last.
- If the pipe has a porcelain enamel finish, it should be provided with secure joints and secure attachments to the appliance and chimney.
- Any vertical pipe should be installed with the small (or crimped) end down. This will keep creosote inside. If a horizontal run is needed, try to slope this enough to keep the joints from dripping.

INSULATED SENTINEL CHIMNEY PIPE

When your chimney must pass through an occupied portion of the building such as the room above your fireplace location, or if it is impossible to maintain 18" between your smoke pipe and a combustible wall, you must use insulated chimney pipe. Your Selkirk Metalbestos Sentinel chimney can be installed in the open or enclosed safely in wooden paneling at only 2" for space between the wood and the outer chimney wall.

It is not necessary to enclose the part of your insulated chimney pipe that runs from the appliance to the ceiling. Most building codes, however, require that any part of your insulated chimney system running from floor to ceiling must be enclosed. This protects the chimney assembly from accidents. There is no general enclosure requirement for attic and crawl spaces or garages.

Framing of chimney passages through walls, ceiling above the support and roof structures must allow for 2" clear space between the insulated pipe and the framing material. The use of a Joist Shield (Part No. SC-JS) or Wall Spacer (Part No. SC-WS) will hold the chimney in a fixed position and assures you that this required clearance space will be maintained.

Remember that clearance requirements between combustible material and your chimney are established for your protection. (See illustrations on next page.)
NOTE: Read carefully the section covering chimney fires and their prevention.

CLEARANCE OF SINGLE WALL

The clearance from single wall smoke pipe depends on how it is used: (1) If it is going into a Ceiling Support, such as a CSP, this is a UL-tested installation. The smoke pipe clearance to the ceiling can thus be as shown in Installation Sheet 2 and will be less than 18". (2) If the smoke pipe or connector must go up along a wall, or run along under a ceiling, always maintain 18" clearance to the combustible surface (drywall, sheetrock or plaster is also considered as a combustible surface). (3) Never use smoke pipe in areas not visible to the eye, i.e. crawl or attic spaces. (4) Never enclose smoke pipe with any combustible building material. (5) Attach all joints securely to the stove, each other and to the chimney. Make sure these joints are as leak-tight as possible, with the crimped ends down to keep creosote inside the pipe.

Excessively long lengths of smoke pipe can interfere with the proper operation of your appliance. Many people mistakenly use long runs thinking that they are using waste heat to warm their homes. What actually happens is that this loss of heat quickly cools the flue gases to their dew point causing internal creosote condensation in the chimney. The result is rapid build-up on the inside of the chimney, loss of draft and large amounts of creosote dripping down the chimney.

Use of single wall pipe to extend your chimney above the roof may seem like a good savings at the time of installation; however, it is likely to cause dripping creosote stains on the roof, poor draft, rusting pipe and ice hanging from the chimney top.

SELKIRK METALBESTOS SENTINEL MODEL SC FRAMING AND SUPPORT TABLE

SENTINEL CHIMNEY MODEL SC	DIMENSIONAL DATA, INCHES		
SIZE, INCHES, INSIDE	6	7	8
OUTSIDE DIAMETER	10.5	11.75	13.5
ENCLOSURE AND FRAMING	14.5 x 14.5	15.75 x 15.75	17.5 x 17.5
APPROX. WEIGHT, LBS/FT.	10	11.5	13.5
MAXIMUM WEIGHTS FOR ALL SUPPORTING METHODS, FEET			
CEILING SUPPORT (CSP)	40	40	40
INTERIOR RESUPPORT (ISA) (OS)	30	30	30
ROOF SUPPORT ASSY. (RSA)	30	30	30
WALL BRACE KIT (WBK)	26	26	26
WALL SUPPORT PKG. (WSP)	40	40	40
INSULATED TEE (IT)	40	40	40
SUSPENDED BELOW ANY SUPPORT	20	20	20
FLASHING ROOF ASSY. (FRA)	16	16	16
MINIMUM CLEARANCE TO COMBUSTIBLES	2 INCHES MINIMUM ALL SIZES		

IN INSTALLING YOUR CHIMNEY AND WOOD-BURNING STOVE OR FIREPLACE SYSTEM, REMEMBER . . . SAFETY FIRST.

Sentinel Model SC factory-built chimneys are tested and listed by Underwriters' Laboratories, Inc., in accordance with UL Standard 103. The tests establish capability of continuous operation with 1000°F entering gases when installed at two inches clearance to combustible enclosure. Additionally, tests are made at gas temperatures of 1400°F for one hour, and 1700° for ten minutes to simulate performance during period of forced firing or excessive temperature.

These severe temperature tests establish two important characteristics of a chimney: that the metal parts are able to withstand very high temperatures; and that temperatures on building materials used to support and enclose the chimney are far below the ignition temperature of wood. Thus where a ceiling support has been framed at two inches clearance, for example it has also been tested this way and all temperatures of the wood around it, and of its own metal parts are within the limits allowed by UL-103. The combination of dense high quality insulation in the Sentinel Chimney, together with very careful part design thus allows 2 inches of clearance for all sizes of Sentinel chimney pipe.

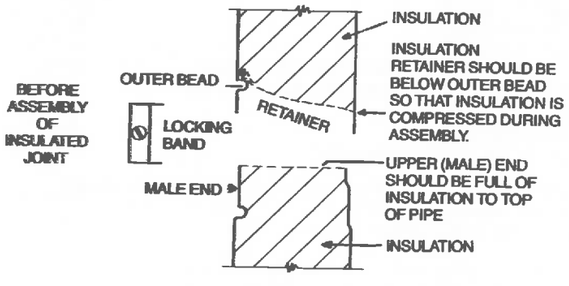
INSULATION SAFETY

The dense insulation of the Sentinel Model SC chimney not only reduces temperatures on adjacent materials to safe levels, but its thickness and weight also provide a "delay feature." Even if the gases inside the chimney suddenly become hot, the insulation must be brought up to temperature before it can transmit the heat to its surroundings. Also the insulation, once heated, holds the heat to maintain strong draft. For the same reason the inner flue is relatively unaffected by wind or low outdoor temperatures. This all adds to safety and reduces the rate and amount of creosote accumulation. The delay feature due to insulation weight is also helpful if there is a chimney fire.

CHIMNEY JOINT SECURITY

All insulated parts of the Sentinel chimney have a flexible insulation retainer at the lower end. When this is properly compressed by seating the locking band in its matching grooves, gas and heat leaks will be minimized. Further, the locking band provides maximum physical security and joint strength for both indoor and outdoor applications.

Always be sure that all locking bands are properly seated around the pipe.



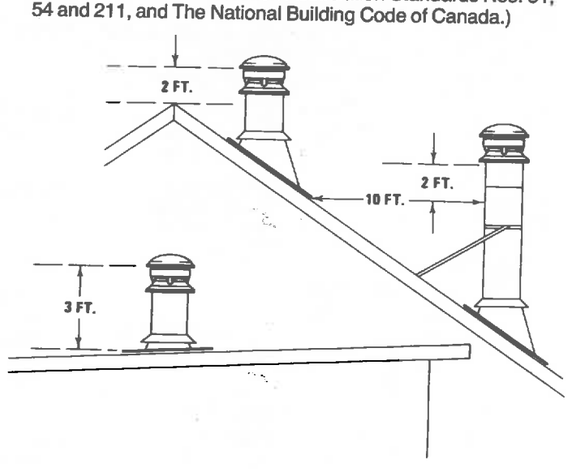
NOTE
When the insulation retainers melt or volatilize during high temperature operation, the compressed insulation will fill in.

CHIMNEY HEIGHT AND LENGTH

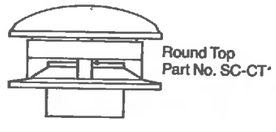
Refer to the Sentinel Chimney "Selector Chart" so you can combine the exact number of 12-, 18-, and 36-inch pipe sections for the desired chimney height.

A "Minimum Height Table" is available for oil appliances giving data you can use for correct draft. A chimney for one or more gas appliances must conform to size and height recommendations in the "Metalbestos Gas Vent and Chimney Sizing Handbook." Heights above the roof as given in the next paragraph are minimum; greater heights may be needed for reasons given.

Before beginning installation of the chimney, be sure that the selected height of the Chimney with Round Top termination is high enough to conform to building code requirements. Chimneys are required to extend at least 3 feet above the highest point where they pass through the roof of a building, and at least two feet higher than any portion of a building within 10 feet. (National Fire Protection Association Standards Nos. 31, 54 and 211, and The National Building Code of Canada.)



USE ONLY THIS TOP



Round Top
Part No. SC-CT*

IMPORTANT:
USE OF ANY OTHER CAP MAY ALLOW WATER TO ENTER INSULATION. USE ONLY THE SC-CT CAP SHOWN HERE.

3. Tie a plastic bag around the opening in the bottom of the chimney to collect debris coming down the chimney as you proceed. It is important that this bag be sealed to the chimney with masking tape as soot and fly ash are light powdery-like substances which can blow about easily.
4. Assemble the parts of the Chimney Cleaning Kit as directed in the installation instruction sheet packaged with the kit.
5. Insert the brush into the open top of the chimney and push or lower it progressively as you work it up and down with a twisting motion against the sides of the chimney flue.
6. The results will depend on your patience and the amount of effort you are willing to expend on the project. It may be necessary to empty the plastic bag several times before the chimney is clean.
7. Re-assemble the smoke pipe and remount the chimney top.
8. Check all chimney joints to be sure the locking bands have been properly replaced.

CREOSOTE

Creosote is the name given to the liquid or solid form of wood smoke after it coats the inside of your chimney. When wood burns in a smoky fire, the smoke becomes creosote when it condenses and sticks to any surface. Smoke is really very fine particles of wood chemicals which have not been in contact with enough heated air to burn to invisible gas. There are over forty different chemical constituents of creosote, and it is likely that no two creosote samples will ever be exactly the same. In appearance, it can be a dark brown wet runny fluid, or a thick tarry black liquid. On surfaces it can be a hard or tough black coating, or a foamy, flaky brittle layer depending on how it was formed and subsequently heated. Burning dry wood helps to avoid runny fluid creosote, but because water is always formed chemically during combustion, it will always be part of the creosote if it is condensing on a cold surface.

Creosote causes many problems. Some are visible while others are not. It can make trouble if:

1. It runs down the outside of the pipe to damage the finish on the metal.
2. It drips out of joints, damaging floors or furnishings.
3. It plugs up the chimney to cause poor combustion, smoking, soiling walls and indoor air pollution.
4. It catches fire in the chimney to cause possible chimney damage and damage to your home.

In regard to chimney fires, the Selkirk Metalbestos Sentinel Chimney has been laboratory tested without damage at temperatures as high as a typical chimney fire (1700°F). Other laboratory research has shown that creosote can ignite and burn with gas temperatures as low as 1400°F, without visible evidence of any kind. The vast majority of low temperature (under 1700°F) chimney fires may be beneficial because the stove user may be burning out creosote just by a brief hot fire every morning. Very rarely are temperatures high enough to cause internal metal damage, but even if this occurs the chimney insulation will still protect your home. The chance of a chimney fire causing serious damage however can be avoided by understanding your appliance and keeping the chimney clean.

The Underwriters' Laboratories of Canada has distributed an article on chimney fires. The quoted statements from this article which follow apply to any and all uses of wood as a fuel in the home.

"Creosote is formed primarily as a result of the incomplete combustion of wood. Combustion is improved by making sure that there is a plentiful air supply to the appliance. Some appliances, such as the airtight stoves, have a greater tendency to produce creosote because of their typical, slow-burning, smouldering fires. These stoves should be operated with the combustion air inlets sufficiently open to produce an active bright-burning fire. This is particularly important after fuel has been added.

Less creosote build-up will occur where the flue gas temperatures are sufficiently high to prevent condensation. Besides maintaining an active fire it is also preferable to avoid chimneys with low insulating capability such as is the case with the single wall stove pipe. It should nevertheless be emphasized that in no cases should insulation be placed around an installed chimney and the required clearances to combustible construction should be maintained, since this in itself may constitute a serious fire hazard.

Notwithstanding the methods employed to reduce the rate of creosote formation, some will continue to be produced, and it is necessary to adopt a cleaning and inspection routine to prevent its accumulating to an unacceptable level. The rate of accumulation on a particular installation will vary, depending upon the respective influences of the factors noted above. It is therefore necessary to establish a routine of chimney cleaning on the basis of experience. With new installations or where there has been a significant alteration, such as changing the connected appliance, the chimney and flue pipe should be checked after two weeks, four weeks and at intervals thereafter until it is established how often cleaning will be necessary. Existing chimneys should be inspected and where there is an accumulation of creosote or soot they should be cleaned. Thereafter a similar routine of inspection should be followed until the required cleaning frequency can be established.

It should be recognized that, should there be a deposit of creosote or soot in a chimney, the likelihood of its ignition is increased by burning fuel at a higher than normal rate such as when paper, cardboard, Christmas tree branches, plywood or other scrap materials are burned.

Finally, if a chimney fire occurs, call the Fire Department. After the fire is out, professional advice should be obtained to establish the condition of the chimney and its acceptability for continued use, or need for repair or replacement."

To this quotation, if you think there was a chimney fire, it might be added that when it is safe to do so, check internal locations such as the attic and under the roof and keep watching for two or three hours. There may be delayed smouldering and subsequent ignition, even if the fire inside the chimney has been controlled.

Building Inspector
Village of Brown Deer
4800 W. Green Brook Drive
Brown Deer, WI 53223

Sir:

Enclosed please find the structural analysis and modification requirements by C. Miller, P.E. Re: Building Permit #11170; fireplace installation and ceiling modification, 3805 W. Kirchoff.

All required work to meet these requirements per the analysis have been completed.

Please call if visual inspection is required.

Sincerely,

R. A. Nestor

Received 2-12-82

January 22, 1982

Mr. Richard Nestor
3805 W. Kirchoff Ave.
Brown Deer, WI 53209

RE: Ceiling Analysis Over Family Room

Dear Mr. Nestor:

As you requested, I inspected the structural modifications made to your family room ceiling in November, 1981. These modifications were made in order to install a new fire place in the family room. The modifications consisted of replacing an existing double 2X12 lintel running E-W across the family room with two single 2X12 strongbacks.

After performing the inspection, I analyzed the modified ceiling structure. The results of the analysis are as follows:

1. The new 2X12 strongbacks have adequate strength and stiffness(if connected to the existing ceiling structure properly and if adequately braced) to safely support the family room ceiling. A live load consisting of either a 10 psf uniform load or a 250# concentrated load acting in conjunction with the 6 psf dead load of the ceiling was used in analyzing the ceiling structure. The area above the ceiling is a crawl space which can not be used for storage.

2. The connection of the new 2X12 strongbacks to the existing 2X6 ceiling joists was inadequae. The connection was made in a manner which loaded the connecting nails in withdrawal. Section 8.8.3 of the "National Design Specification for Wood Construction" states that this condition should be avoided if possible.

3. The connection of the new 2X12 strongbacks to the load bearing stud walls at the east and west ends of the family room was inadequate. There was no blocking between the strongback and east wall. The blocking is required to transfer the load from the strongback to the east wall. The load was being transferred from the west end of the strongack to the west wall through the 2X6 roof rafters. The connection of the strongback to the 2X6 was inadequate and the 2X6 does not have sufficient strength to transfer the strongback load to the west wall.

4. The compression edge of the new strongbacks was unbraced against lateral displacement. Section 3.3.3 of the "National Design Specification for Wood Construction" requires the compression edge of the strongbacks to be braced at intervals of 16" in order to develop the full flexural strength of the strongbacks.

As a result of this analysis, I designed repairs necessary to correct the problems described in items 2,3, and 4 above. These repairs are shown on the attached sheet #1. The structural calculations made in analyzing the ceiling structure and designing the repairs are shown on attached sheets #2,#3, and #4. Also as a result of the analysis the ceiling structure was shored in order to insure safety while the repairs were being made.

On January 20, 1982, I inspected the ceiling structure and found that the repairs were made in conformance with the details shown on sheet #1. The ceiling structure now has the required strength and stiffness to safely support the anticipated design loads. If you have any questions, please do not hesitate to call me.

Very truly yours,

Curtis B. Miller

Mr. Curtis B. Miller, P.E.

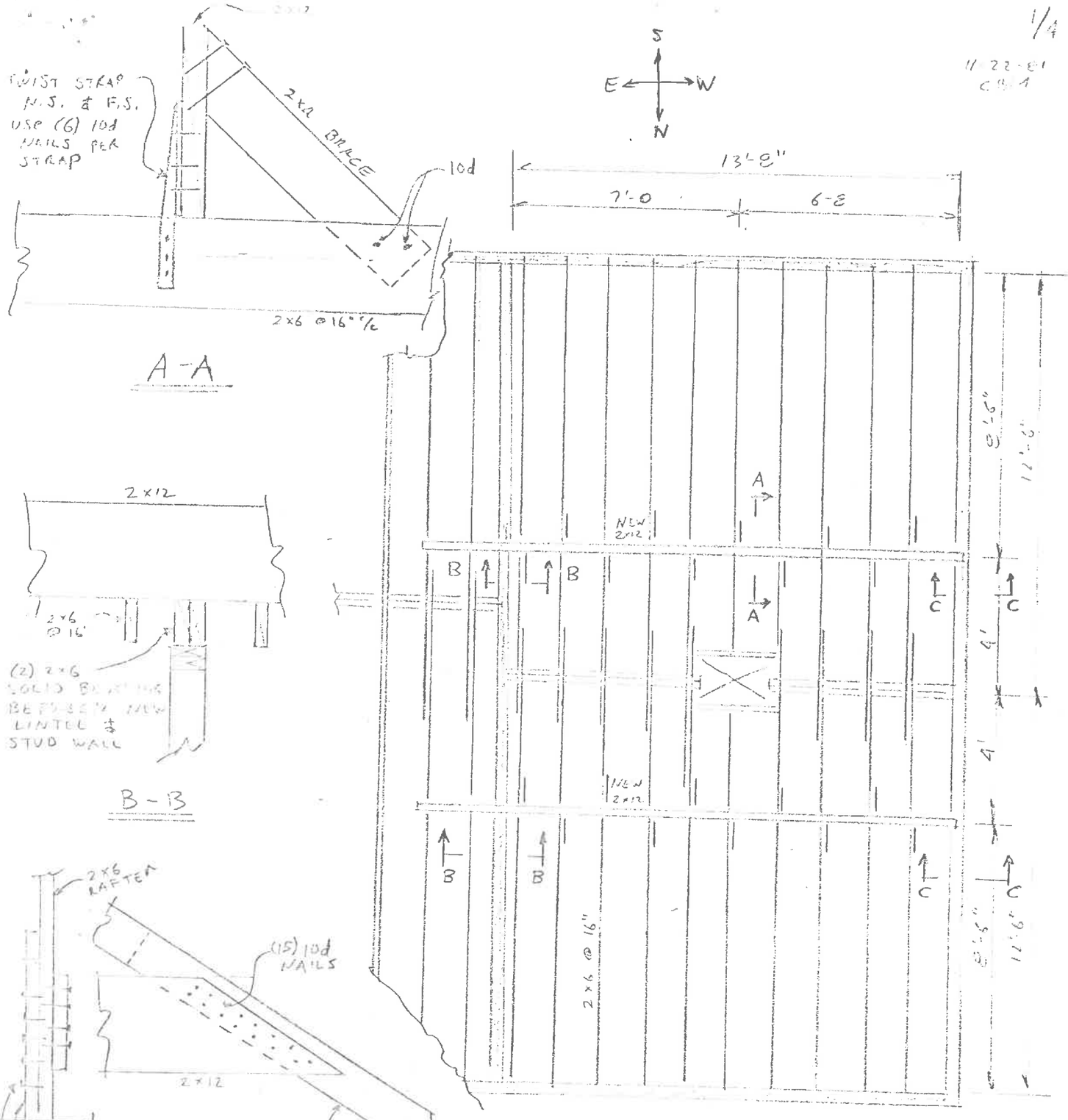
/nb

WISCONSIN
CURTIS B.
MILLER
E-13437
ST. MICHAEL, WI
PROFESSIONAL ENGINEER

Curtis B. Miller

1-22-82

11-22-01
C&A



NESTOR RESIDENCE

CEILING FRAMING PLAN

OVER FAMILY ROOM

DEAD = 6 PSF

LIVE = 16 PSF

(OR. 250# CONCENTRATED)

NESTOR RESIDENCE CEILING DESIGN

CALCULATE CEILING WEIGHT

2X6 @ 16" o/c	= 1.8 #/FT / 1.33 FT	=	1.4 PSF
2X12 @ 8' o/c	= 3.6 #/FT / 8 FT	=	0.6 PSF
SUSPENDED CEILING		=	1.0 PSF
1/8" SLATE CEILING		=	1.0 PSF
INSULATION		=	2.0 PSF
		DEAD	= 6 PSF

LIVE = 10 PSF (OR 250# CONCEN.)

DEAD + LIVE = 16 PSF TRIBD

AREA ABOVE CEILING IS CRAWLSPACE. NO STORAGE IS PERMITTED. ∴ DESIGN CEILING FOR 10 PSF UNIFORM LIVE LOAD OR CONCENTRATED LIVE LOAD OF 250#, WHICHEVER IS MORE SEVERE.

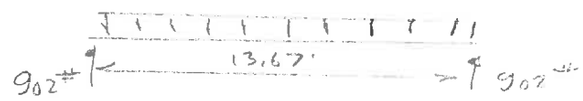
CHECK NEW 2X12 (HEM-FIR)

SPAN = 13'-8"

F_B = 1200 PSI

F_V = 75 PSI

$w = 16 \times 8.25' = 132$ #/' (16 PSF)



CONTROLS $M = \frac{13.67^2}{8} \times 132 = 3083$ #'

$f_b = \frac{3083 \times 12}{31.6}$

$= 1170$ PSI $< F_b = 1200$ PSI

OR

$V = \frac{13.67 \times 132}{2}\left(1 - \frac{2 \times 1}{13.67}\right)$

$= 770$#

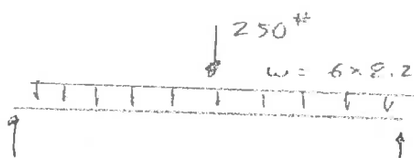
$f_v = \frac{770}{16.9} \times 1.5$

$= 68$ PSI $< F_v = 75$ PSI

cl

250#

$w = 6 \times 8.25 = 50$ #/' (6" SW)



$M = \frac{50}{8}(13.67)^2 + \frac{250 \times 13.67}{4}$

$= 1168 + 854$

$= 2022$ #' $<$ 3083

CHECK LATERAL BRACING OF 2x12

try BRACING @ ENDS & MIDPOINT

$l_u = \frac{13.67}{2} \times 12 = 82''$ $\quad l_e = 1.92 \times 82 = 157$

$C_s = \sqrt{\frac{157 \times 11.5}{(1.5)^2}} = 28$

$C_k = \sqrt{\frac{3 \times 1000000}{5 \times 1200}} = 22$

$C_s > C_k \quad \therefore \quad F'_b = \frac{0.4 \times 1000000}{(28)^2} = 510$ PSI

$f_b < F'_b$ N.G.

FOR NO REDUCTION IN "F_B", $C_s = \sqrt{\frac{l_e d}{b^2}} < 10$

SOLVE FOR l_e

$\sqrt{\frac{l_e d}{b^2}} < 10$

$\frac{l_e \times 11.5}{(1.5)^2} < 100$

$l_e < 19.6$

$l_e = 1.92\ l_u$

$\therefore l_u = 10.2''$

TRY BRACING AT 16" c/c

$l_u = 16$

$l_e = 1.92 \times 16 = 30.7''$

$C_s = \sqrt{\frac{30.7 \times 11.5}{1.5^2}} = 12.53 < C_k$

$C_k = 22$

$\therefore \quad F'_b = 1200 \left[1 - \frac{1}{3} \left(\frac{12.53}{22} \right)^4 \right]$

$= 1160$ PSI

$f_b = 1170$ PSI (1% OVER)

OK

BRACE 2x12 @ 16" c/c

DESIGN CONNECTIONS

JOIST TO LINTEL CONNECTION

$R_{D+L} = 1.33' \times 16\,PSF \times 8.25'$ (16 PSF)
$= 175\#$

OR $R_{D+L} = 1.33 \times 8.25 \times 6\,PSF + 250\#$
$= 320\#$

10d NAILS $= \frac{320}{60}$
$= 6$

DESIGN CONNECTION FOR 320 #

use (6) 10d NAILS

LINTEL TO ROOF GIRDER CONNECTION

from p. #2

$R_{D+L} = 902\#$

HEM-FIR IS SPECIES GROUP III.

CHECK SHEAR ON 2×6 RAFTEL

$f_v = \frac{902 \times 1.5}{8.25} = 164\,PSI > 75$ M.S

ADJ 2×6 DOUBLER PIECE

USING 10d NAILS

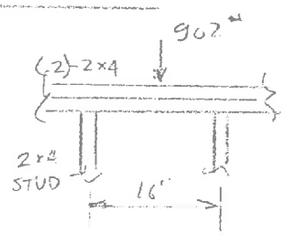
$V = \frac{1.5}{1.92} \times 77\# = 60\#/NAIL$

NAILS $= \frac{902}{60} = 15$

Use (15) 10d NAILS

LINTEL TO WALL CONNECTION

$R_{D+L} = 902\#$



$M = \frac{902 \times 16}{4}$
$= 3608$ #"

Check (2)-2×4

$f_b = \frac{3608}{2 \times 1.31} = 1377\,PSI$ > 1200 M.S

$f_v = \frac{902 \times 1.5}{2 \times 5.25} = 129\,PSI > 75$ M.S.

PROVIDE (2)-2×6 SOLID BLOCKING

$f_b = \frac{3608}{2 \times 7.56} = 238\,PSI < 1200$ OK

$f_v = \frac{902 \times 1.5}{2 \times 8.25} = 82\,PSI$ OK

Color Code:
White to Inspector
Yellow to Office File
Blue to Applicant

Permit No. 146

420

Department of Building Inspection and Safety Engineering

Application for Permit to Construct a New Building or Addition

Milwaukee 9, Wisconsin Date 10/26/55

TO THE INSPECTOR OF BUILDINGS

The undersigned hereby applies for a permit to build, construct, and occupy or install on premises in accordance with plans, specifications, certified survey of premises, and other data herewith filed a/an 2 Car Detached frame Garage building according to the following statement.

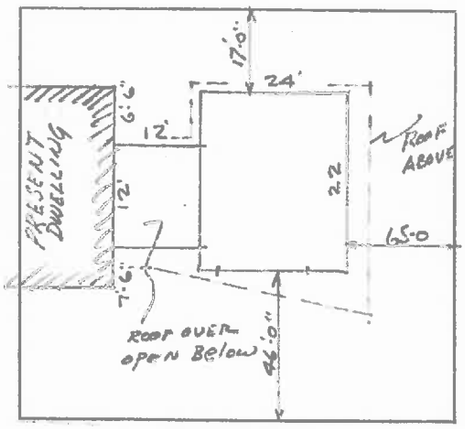
PART 1. General Information.

Name of Owner Ralph Jansen Address 3805 W. Kirchoff
Location of Building 3805 W. Kirchoff
Lot 1; Block 2; Subdivision Kirkwood
Name of Arch., Eng., or Design Address
Name of Contractors Jas. P. Jansen Co. Addresses 5376 N. Teutonia Ave

Occupancies: 1st Floor (Detached Garage) 2nd Floor Upper Floors —

PART 2. Zoning.

Use District Res C; Size of Lot 72.16 x 182.49 x 98.20 x 201.40
Size of Building 24 x 22; No. of stories in height 1; Area of lot —
Est. road grade —; Proposed fin. grade at bldg. lines —; Lot lines —;



N. 37th St.

W. Kirchoff Situation Plan

Allowable Bldg. Area:	Permitted	Provided	Computations
1st floor @ —	— sq. ft.	sq. ft.	10' gar
2nd floor @ —	— sq. ft.	sq. ft.	
Upper floors @ —	— sq. ft.	sq. ft.	
No. of Families & Apts.	—		
Inner Lot Line Courts	— ft.	ft.	
Inner Courts	— ft.	ft.	
Outer Lot Line Courts	— ft.	ft.	
Outer Courts	— ft.	ft.	
Side Yards West North	35 ft.	16'0" ft.	
Side Yards East South	10 ft.	17'0" ft.	
Rear Yard	25 ft.	65'0" ft.	
Set Back	ft.	ft.	
Height of Bldg.	ft.	10'0" ft.	Schedule "E"
Cu. Content of Bldg.	5280.0	cu. ft.	

PART 3. Building Code.

Type of Construction Wood Frame
Type of Foundations Conc. Slab Floating Size; Depth Below Grade —
Allowable load on soil at site — lbs. per sq. ft. Actual load on soil at site —
Is design of building such as to permit additional stories? No / Yes No. of additional stories allowed —

	Thickness of Walls	Materials in Walls	Size of Joists	Distance from Center	Span of Joists	Size of Girders	Span of Girders	Material of Girders	Size of Columns	Length of Columns	Material of Columns	Ceiling Heights	Floor Loads
Foundations	Spread Conc. floating slab.												
Basement	—												
1st Story	2 x 4	Stds	~~16~~	16"									
2nd "													
3rd "													
4th "													
Ceiling													
Roof			2X12	16"	23'0"								

Type of Roof: (Flat Deck) Built-up.

No. of stairs —; Enclosed —; Open —
No. of stairways to basements — No. of stairways to roof —
No. of elevators —; No. and location of fire escapes —

PART 4. Remarks, Requirements and Data.

* No plywood for exterior finish.
Min. Thickness any other ext. mtr'l 1/2"

Owner's estimate of cost of building $ 1000.00 Heating — Other —
Department estimated cost of building $
FEES; Building $ 10.00; Occupancy $ —;
Heating $ —; Plastering $ — TOTAL FEES - - - - - $ 10.00

It is Hereby Agreed between the undersigned, as owner, his agent or servant, and the Village of Brown Deer, that for and in consideration of the premises and of the permit to construct, erect, alter or install and the occupancy of building as above described, to be issued and granted by the Building Inspector, that the work thereon will be done in accordance with the descriptions herein set forth in this statement, and as more fully described in the specifications and plans herewith filed; and it is further agreed to construct, erect, alter or install and occupy in strict compliance with the ordinances of the Village of Brown Deer, and to obey any and all lawful orders of the Building Inspector of the Village of Brown Deer, and all State Laws relating to the construction, alteration, repairs, removal and safety of buildings and other structures and permanent building equipment.

[illegible] 280 [illegible]

White to Inspector
Yellow to Office File
Pink to Applicant

065-1075

****

BUILDING
INSPECTION DEPARTMENT

PERMIT NO: 11170

Village of Brown Deer, Milwaukee County, Wisconsin

10-13-81
Date

Whereas Richard A Nestor Owner ~~or Agent~~

Same ~~Architect~~ or Contractor

agrees to comply with the requirements of Ordinances and the Zoning Code of the Village of Brown Deer applying thereto and further agrees that all work will conform with the application, and drawings approved therefor, this Permit is issued for the construction of:

RESIDENTIAL ☑ ; COMMERCIAL ☐ ; INDUSTRIAL ☐ ; NEW / OLD

Install Free Standing Fireplace

Premises 3805 W Bischoff Zoning District R-2

Lot ____ Block ____ Subdivision ____

Estimated Cost $200.00 Fee Paid $10.00

[signature]
Building Inspector

****

065-1075

INSPECTION REQUEST

Date 6-28-91

By Olson Elec. 784-3465

Address 3805 W. Kirchoff - Nesto

Building	Electric	Plumbing
Permit No. _____	Permit No. _____	Permit No. _____
1. Footing	1. Temporary Service	1. Waste, Vents, & Water
2. Foundation	2. Roughing Complete	2. Outside Drain
3. Heating - Air	3. Appliance Connected	3. Inside Drains
4. Rough Carpentry	4. Fixtures in	4. Storm
5. Basement Slab	5. Final	5. Final
6. Final	6. Service	6. _____
7. _____	7. WEP release 07-03-91 AB	7. _____

Permit # 7784

VILLAGE OF BROWN DEER, BROWN DEER, WISCONSIN 53223
APPLICATION FOR PERMIT FOR ELECTRICAL WIRING

TO THE ELECTRICAL INSPECTOR: DATE: 6-17 19 91

The undersigned hereby applies for a permit for the execution of electrical wiring for light, heat, or power, as hereinafter described.

FOR INSPECTOR ONLY

Rough-in Inspection----
Final Inspection-------
Service----------

1. Owner: Mr. Dick Nestor
2. Address: 3805 W. Kirkhoff Av.
3. Estimated Cost of Job: $ 350.00
4. For: old ☒ new ☐ residential ☒ commercial ☐
5. Brown Deer has a exterior Security Lighting Ordinance (84-19)
   A. A separate approved authorization form must be attached to this application covering all exterior Security Lighting.

Quan.		Fee Ea.	Amount
	Outlets for switches, receptacles and devices	0.30	
	Incandescent lighting fixtures - per lamp	0.25	
	Flourescent lighting fixtures - per lamp	0.25	
	H I D lighting etc. - per lamp	0.50	
	Ranges, ovens and dryers, including outlet	3.00	
	0 to 30 amp outlets	2.00	
	over 30 amp outlets	3.00	
	Garbage Disposal	2.00	
	Dishwasher	2.00	
	Waterheater	3.00	
	Motors (per h.p. of fraction thereof for each)	0.25	
	Transformers, generators, and rectifiers (per KW)	0.25	
	Automatic heating equipment	3.00	
	Electric heating equipment (per KW)	0.25	
	Air conditioner, refrigeration units & compressor	3.00	
	Dimmers and timing devices	1.00	
	Feeder or subfeeder	2.00	
	Solar-photovoltaic systems	25.00	
	Wireways, busways, underfloor raceways or auxiliary gutters per ft.	0.20	
	Strip & track lighting, plug-in strip & similar systems per ft.	0.20	
	Signs, lamps each receptacle	0.50	
	Swimming pool wiring	25.00	
1	Service Capacities 0-200 10.00, 200-400 15.00, 400 and above	25.00	10.00
	Temporary Permits including services 90 days	10.00	
	Reinspections	10.00	
	Failure to call for final inspection	10.00	
	Minimum fee for any one permit	20.00	20.00

DOUBLE FEE FOR ANY WORK STARTED BEFORE OBTAINING A PERMIT

TOTAL 20.00

NOTE: MINIMUM CHARGE FOR ANY ONE PERMIT $20.00 EACH. Where additional permits on same job are necessary, the minimum fee does not apply.

Signature of:

Electrical Contractor OLSON Electric (Name) 1380 Hamilton Dr (Address) 784-3465 (Phone)

Supervising Electrician Ray Olson (Name) 1380 Hamilton Dr (Address) 784-3465 (Phone)

License No. 91-50 Expiration Date 2-29-92

Revised January 1, 1988

Form 1245-1-83-300 Pds.
Lof # 702-2909

Wisconsin Electric Power Company
OUTLET LOCATION LETTER

☐ REVISION
☐ DUPLICATE

To OLSON ELEC. Date Prepared 05-24-91

In regard to your inquiry of _____ for (Overhead) (Underground) service to the (industrial) (commercial) (residential) (farm) premise of DICK NESTOR

located at 3905 W KIRCHOFF AV (82N)

in the C/T/V of BROWN DEER we require service termination as follows:

☐ New ☐ Temporary ☒ Rewired ☐ Additional

Single Phase 200 amperes (120/240) _____ volts, termination located SOUTH WALL APPROX. 40 FT W OF S.E. CORNER

☐ at _____ foot minimum above (ground) (final grade)

☒ per Electric Service and Metering Manual Sheets U-10, U-11, M-26 + M-27

☒ Meter Location (out) (in) side at: TERMINATION

Service (drop) (lateral) size 3/0 TXR length 123 tension _____

Maximum Single-phase Available Short Circuit Current at the service termination.

☒ 10,000 amperes ☐ 22,000 amperes _____ amperes

☐ New ☐ Temporary ☐ Rewired ☐ Additional ☐ Power

(Single) (Three) Phase _____ amperes (240) (120/208) (480) _____ volts, termination located _____

☐ at _____ foot minimum above (ground) (final grade).

☐ per Electric Service and Metering Manual Sheets _____

☐ Meter Location (out) (in) side at: _____

Service (drop) (lateral) size _____ length _____ tension _____

Maximum (Single) (Three) phase Available Short Circuit Current at the service termination.

☐ 22,000 amperes ☐ 25,000 amperes _____ amperes

☒ Installation of WE facilities involves (additional) charges. Billing must be satisfied prior to construction.

☐ The above information is valid for _____.

☐ The above information is contingent upon right-of-way.

☐ The above information is contingent upon _____

☐ You are advised NOT to proceed with completion of wiring until notified the contingencies noted above have been removed.

☐ On _____ you were advised not to proceed with the completion of the wiring. All the contingencies have been removed and you may proceed.

☒ You may proceed with the completion of wiring.

☐ The location of service drops supports for buildings covered with aluminum, stucco, asbestos, or other similar siding material shall be marked. Mounting bolts were provided by the Company and shall be installed by the owner, or by his contractor for him, on brick and stone buildings.

Refer Inquiries to B. JELLIS

Prepared by "

CALUMET District

Phone 354-9100

NOTICE TO CUSTOMER/ELECTRICIAN

Information provided in this letter does not supersede the National, State or Local Electrical Codes. The final responsibility for compliance with the various electrical codes lies with the customer and/or the customer's electrician.

Clerk: Send this form to _____

ORIGINAL - CUSTOMER/ELECTRICIAN
BLUE - CUSTOMER – (permit application)
CANARY - CUSTOMER SERVICES
WHITE - SERVICE ORDER FILE

065-1075

APPLICATION FOR H.V.A.C. PERMIT
VILLAGE OF BROWN DEER
4800 West Green Brook Drive, Brown Deer, WI 53223
357-0144

Date: 9 - 1, 1992 Permit No: 0831

DESCRIPTION	RATE	QTY.	AMOUNT
Heating & Incineration Units, up to and including 150,000 BTU Units	$ 25.00		$ 25.00
Each addl. 50,000 BTU's or fraction thereof	5.00		
Air Conditioning Units - other than wall units, up to and including 3-ton capacity	25.00		25.00
Each addl. ton	4.00		
Heating & Air Conditioning Distribution Systems (Ductwork) - per 100 sq. ft. of area heated/air conditioned. (15.00 minimum)	1.00		
Permanently Installed Wall Units	10.00		
Commercial & Industrial Exhaust Systems included but not limited to: Kitchen Exhaust Hoods, Garage Exhaust Systems, & Paint Booth Exhaust Systems	25.00		
MINIMUM PERMIT FEE	$ 30.00		50.00

DOUBLE FEES SHALL BE CHARGED IF WORK IS STARTED BEFORE PERMIT IS ISSUED

Job Address: 3805 w. Kirkhoff ave **TOTAL FEES DUE** $ 50.00

Owner of Project: Dick nestor Est. Cost of Job: $ 3850.00

Contractor: Aaen Htg + air Cond Inc Phone No: 355-3394

Contractor Address: 4937 w. Good Hope Rd milw 53223 Phone 351-9050
City Zip Code

Village of Brown Deer Code requires that a licensed electrician perform the wiring for any Air Conditioning, Furnace or Boiler installation, **new or replacement,** authorized by an Electrical Permit.

Electrical Contractor: Poghan Electric Inc Phone No: 547-5898

Building is: x Residential ____ Commercial ____ New x Existing

Brand Name of Unit(s) Heil Model No. NUG1075DF
80.5 AFUE

BTU's 24000 A/C Tonnage 2 ton Heil State Approved: x Yes ____ No

Exterior Location of Unit(s) (Side yard, rear yard, rooftop, etc.) Rear Yard

Add. Comments: Ready For Inspection 9-3-92

Signature of Applicant: Peter H. Engeldinger

BDBI 33

Permit # 8472

VILLAGE OF BROWN DEER, BROWN DEER, WISCONSIN 53223
APPLICATION FOR PERMIT FOR ELECTRICAL WIRING

TO THE ELECTRICAL INSPECTOR: DATE: 9/1 19 92

The undersigned hereby applies for a permit for the execution of electrical wiring for light, heat, or power, as hereinafter described.

FOR INSPECTOR ONLY

Rough-in Inspection----
Final Inspection---- 9-16-92
Service----

1. Owner: Dick Nestor
2. Address: 3805 W. Kirchoff Ave.
3. Estimated Cost of Job: $ 200.00
4. For: old [X] new [ ] residential [X] commercial [ ]
5. Brown Deer has a exterior Security Lighting Ordinance (84-19)
   A. A separate approved authorization form must be attached to this application covering all exterior Security Lighting.

Quan.		Fee Ea.	Amount
	Outlets for switches, receptacles and devices	0.30	
	Incandescent lighting fixtures - per lamp	0.25	
	Flourescent lighting fixtures - per lamp	0.25	
	H I D lighting etc. - per lamp	0.50	
	Ranges, ovens and dryers, including outlet	3.00	
	0 to 30 amp outlets	2.00	
	over 30 amp outlets	3.00	
	Garbage Disposal	2.00	
	Dishwasher	2.00	
	Waterheater	3.00	
	Motors (per h.p. of fraction thereof for each)	0.25	
	Transformers, generators, and rectifiers (per KW)	0.25	
1	Automatic heating equipment	3.00	3.00
	Electric heating equipment (per KW)	0.25	
1	Air conditioner, refrigeration units & compressor	3.00	3.00
	Dimmers and timing devices	1.00	
	Feeder or subfeeder	2.00	
	Solar-photovoltaic systems	25.00	
	Wireways, busways, underfloor raceways or auxiliary gutters per ft.	0.20	
	Strip & track lighting, plug-in strip & similar systems per ft.	0.20	
	Signs, lamps each receptacle	0.50	
	Swimming pool wiring	25.00	
	Service Capacities 0-200 10.00, 200-400 15.00, 400 and above	25.00	
	Temporary Permits including services 90 days	10.00	
	Reinspections	10.00	
	Failure to call for final inspection	10.00	
	Minimum fee for any one permit	20.00	

DOUBLE FEE FOR ANY WORK STARTED BEFORE OBTAINING A PERMIT

TOTAL $20.00

NOTE: MINIMUM CHARGE FOR ANY ONE PERMIT $20.00 EACH. Where additional permits on same job are necessary, the minimum fee does not apply.

NOTE: Wire furnace for Auer Heating & Air Conditioning. Air conditioner

Signature of: Don Rogahn

Electrical Contractor Rogahn Electric, Inc. 1739 Craftsman Dr. New Berlin 53146 547-5898
(Name) (Address) (Phone)

Supervising Electrician Don Rogahn 1739 Craftsman Dr. New Berlin, WI 53146 547-5898
(Name) (Address) (Phone)

License No. 92-07 Expiration Date 2/29/93

Revised January 1, 1988

065-1075

VILLAGE OF BROWN DEER

4800 W. Green Brook Drive
Brown Deer, WI 53223
(414) 371-3030 FAX (414) 371-3045

APPLICATION FOR BUILDING PERMIT

DATE: 05/29 ~~-19~~ 2001 PERMIT NO. 16276

The undersigned hereby applies for a permit to Build Shed; Richard A. Nestor according to the following statement:

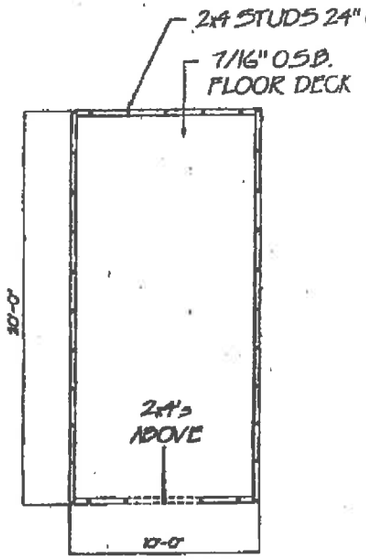
1. Owner: Richard A. Nestor Telephone: 221-2660 355-3394
2. Owner Address: 3805 W. Kirchhoff City: Brown Deer Zip: 53209
3. Location of Structure: _____
4. Cost of Job: 1500.00 Fee: 30.00 Lot 1 Block 2 Subd. Kirkwood
5. Kind of Building (factory, office, store, dwelling): Shed
6. Class of Construction: N/A To Be Occupied By: N/A
7. Name of Contractor: SELF Telephone: 355-3394
8. Contractor Address: — City: — Zip: —
9. Arch.-Design Eng.: — Telephone: —
10. Arch.-Design Eng. Address: — City: — Zip: —
11. Is Building: _____ Old ✓ New _____ Being Remodeled
12. State in detail kind of occupancy or work to be performed: (Mention alterations, replacements, etc.)

Owner will build shed on property per attached specifications. Location of shed per attached survey. 10'X14'X10' on treated wood floor system

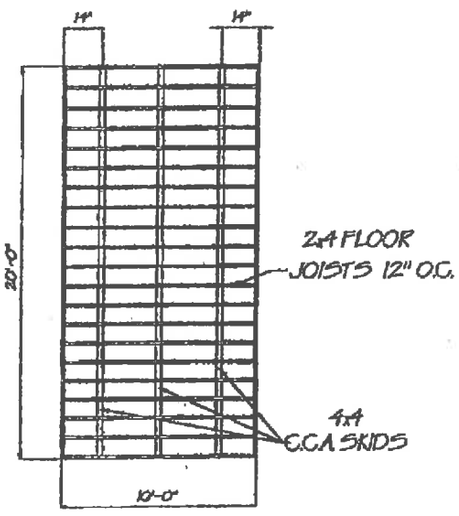
It is Hereby Agreed between the undersigned as owner or his/her agent, and the Village of Brown Deer, that for and in consideration of the premises and of the permit to construct erect, alter or install and the occupancy of building as above described, to be issued and granted by the Building Inspector, that the work thereon will be done in accordance with the descriptions herein set forth in this statement, and as more fully described in the specifications and plans herewith filed; and it is further agreed to construct, erect, alter or install and occupy in strict compliance with the ordinances of the Village of Brown Deer, and to obey any and all lawful orders of the Building Inspector of the Village of Brown Deer, and all State Laws relating to the construction, alteration, repairs, removal and safety of buildings and other structures and permanent building equipment.

Color Code: White to Inspector
Yellow to Applicant

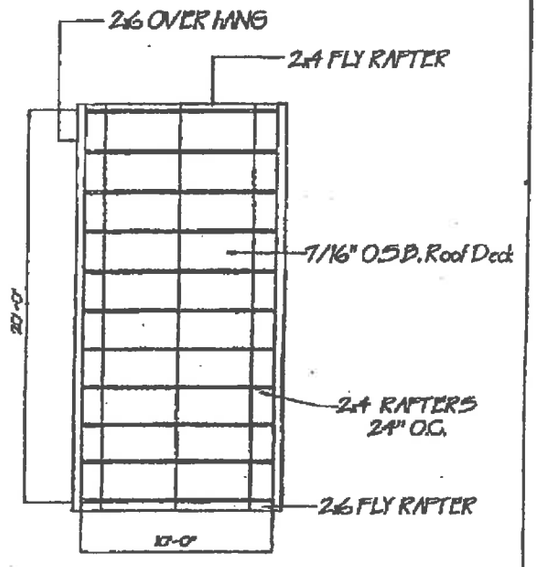
Signed: Nestor



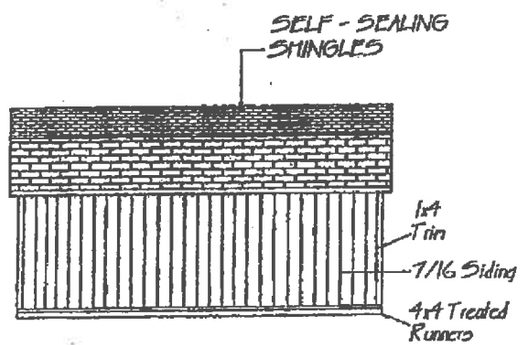
FLOOR PLAN



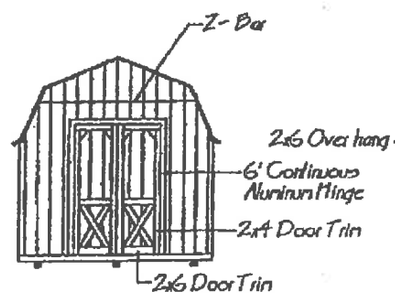
FLOOR FRAMING



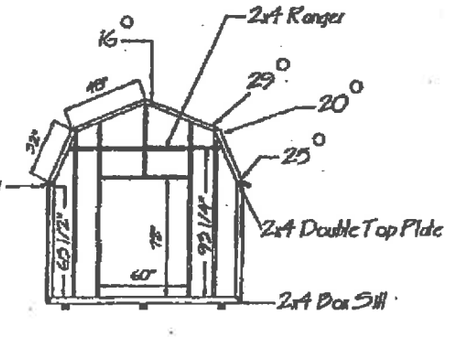
ROOF FRAMING



LEFT SIDE ELEVATION



FRONT ELEVATION



FRONT WALL SECTION

10' x 14' x 10' DELUXE ESTATE

HEARTLAND INDUSTRIES	DRAWN BY: CRAIG SHAFER	1-3-96
		1/4" = 1'-0"

THE SHED WERKS, llc
414-421-2134
FAX: 414-423-0626,

MSS / MORTGAGE SURVEY SERVICE

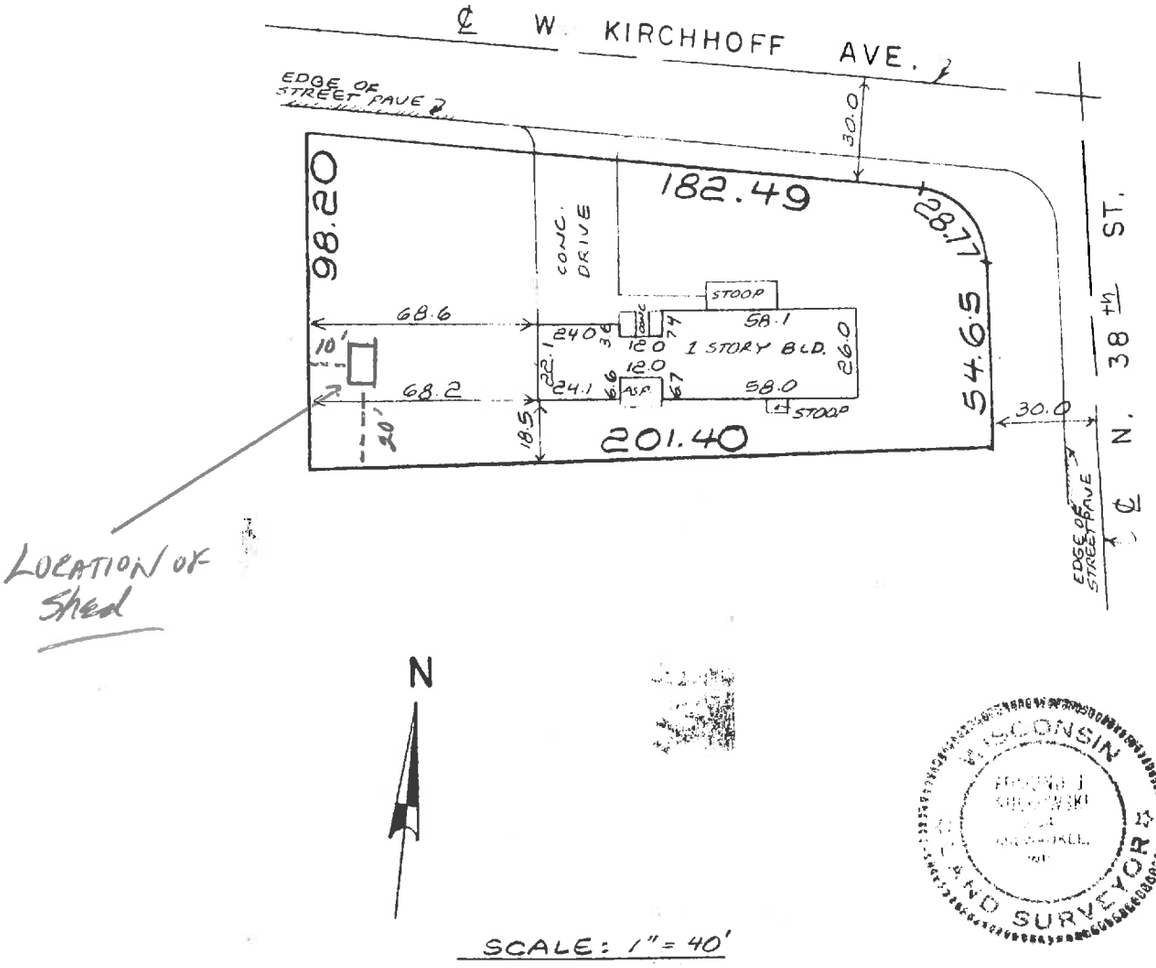
7016 WEST OHIO AVENUE Phone 414/327-4400 MILWAUKEE, WISCONSIN 53219

Prepared for Richard A. Nestor

Location of Property 3805 West Kirchhoff Avenue Brown Deer, WI

Description of Property

Lot One (1) in Block Two (2) in Kirkwood, being a Subdivision of a part of the South West One-quarter (1/4) of Section Twelve (12), in Township Eight (8) North, Range Twenty-one (21) East, in the Village of Brown Deer, County of Milwaukee and State of Wisconsin.



Sold by

Financed by First Savings

State of Wisconsin

I have surveyed the above-described property and the above map is a true representation thereof and shows the size and location of the property, its exterior boundaries, the location and dimensions of all structures thereon, fences, apparent easements and roadways and visible encroachments, if any.

This survey is made for the exclusive use of the present owners of the property, and also those who purchase, mortgage, or guarantee the title thereto within one (1) year from date hereof.

Dated at Milwaukee, WI, this 26th day of November 19 80

Surveyor

REQUEST FOR FINAL INSPECTION
VILLAGE OF BROWN DEER
4800 W. Green Brook Dr.
Brown Deer, WI 53223
(414) 371-3030 FAX (414) 371-3045

Owner/Agent: RICHARD NESTOR Phone #: 355-3394

Contractor: SELF Phone #: —

Project Address: 3805 W. KIRCHHOFF AVE.

Project Description: SHED

Permit #: 16276 Completion Date: 06/26/2001

Comments:

6-27-01 OK N H

4036 31

VILLAGE OF BROWN DEER

4800 W. Green Brook Dr.
Brown Deer, WI 53223
414-371-3030 • FAX 414-371-3045

APPLICATION FOR ELECTRICAL PERMIT

PLEASE TYPE OR PRINT WITH BALL POINT PEN

OFFICE USE ONLY	
Permit No.	16544
Received	
Service	
Rough-In	
Final	

Date 9-17-10

License No. 10-114

Builder	Owner	Occupant/Tenant
	Richard Nestor	
Job Address: 3805 W. Kirchoff Ave	Owner Telephone	Occupant/Tenant Telephone

ESTIMATED COST OF JOB $ 400.00

Buildings ☒ Residential
- ☐ Commercial
- ☐ Industrial
- ☐ New Construction
- ☐ Additional Rooms
- ☐ Remodeling
- ☐ New Occupancy

Where on premises? outside + Basement

Describe wire owner supplied 16 kw generator

List Name of Installing Contractor

HEATING

AIR CONDITIONING

PLUMBING

Please Note:
Brown Deer has an exterior Security Lighting Ordinance (84-19). A separate, approved authorization form must be attached to this application covering all exterior Security Lighting.

SCOPE OF WORK:

No.	Description	Qty.	Rate of Fees	Dollars	Cents
1	Outlet for switches, receptacles & devices		.50		
2	Incandescent lighting fixtures - per lamp		.50		
3	Fluorescent lighting fixtures - per lamp		.50		
4	H I D lighting, etc. - per fixture		6.00		
5	30 amp outlets & larger outlets (ranges, ovens, dryers)		6.00		
6	Garbage disposal		6.00		
7	Dishwasher		6.00		
8	Water heater		6.00		
9	Motors (per h.p. or fraction thereof)		.70		
10	Transformers, generators, rectifiers (per KW and U.P.S. systems)	16	.70	11	20
11	Automatic heating equipment (furnaces, boilers)		7.50		
12	Electric heating equipment (per unit)		4.00		
13	Air conditioner, refrigeration units and compressor		10.00		
14	Dimmer and timing devices, G.F.C.I. devices		4.00		
15	Feeder or subfeeder - sub-panel		15.00		
16	Wireways, busways, underfloor raceways, aux. gutters/ft.		.50		
17	Strip & track lighting, plug-in strip & similar sys./ft.		.50		
18	Signs, illuminated		30.00		
19	Hydromassage bathtub - residential		10.00		
20	Swimming pools, jacuzzis, spas or hot tubs		50.00		
21	Services a. 0 through 100 amps		20.00		
	b. 101 through 200 amps		30.00		
	c. 201 through 400 amps		50.00		
	d. 401 through 600 amps		60.00		
	e. Per 100 amps over 600		10.00		
22	Temporary permits, including services, 90 days		50.00		
23	Reinspections		50.00		
24	**FAILURE TO CALL FOR FINAL INSPECTION**		**50.00**		
25	**MINIMUM FEE FOR ANY ONE PERMIT ***		**50.00**		
26	**DOUBLE FEES for work started before obtaining permit**				
			TOTAL FEES	50	00

*Where additional electrical permits on the same job are necessary, the minimum fee does not apply.

MAKE CHECKS PAYABLE TO:
VILLAGE OF BROWN DEER
MAIL TO: Electrical Inspector

The undersigned hereby makes application for a permit for the electrical installation for light, heat or power as prescribed and agrees to comply with all applicable State and Local Codes and Ordinances regulating the installation of electrical wiring and equipment in the Village of Brown Deer.

Contractor	Supervising Electrician (Signature)	Date
Spring City Electric		9-17-10
Address: 1416 Poplar Dr. Suite A	Telephone	
City: Waukesha	State: WI	Zip Code: 53188

Rev. Jan. 2004

VILLAGE OF BROWN DEER

4800 W. Green Brook Drive
Brown Deer, WI 53223
(414) 371-3030 FAX (414) 371-3045

APPLICATION FOR BUILDING PERMIT

DATE: 9-12 20 10 PERMIT NO. 18886

The undersigned hereby applies for a permit to RE Roof. House according to the following statement:

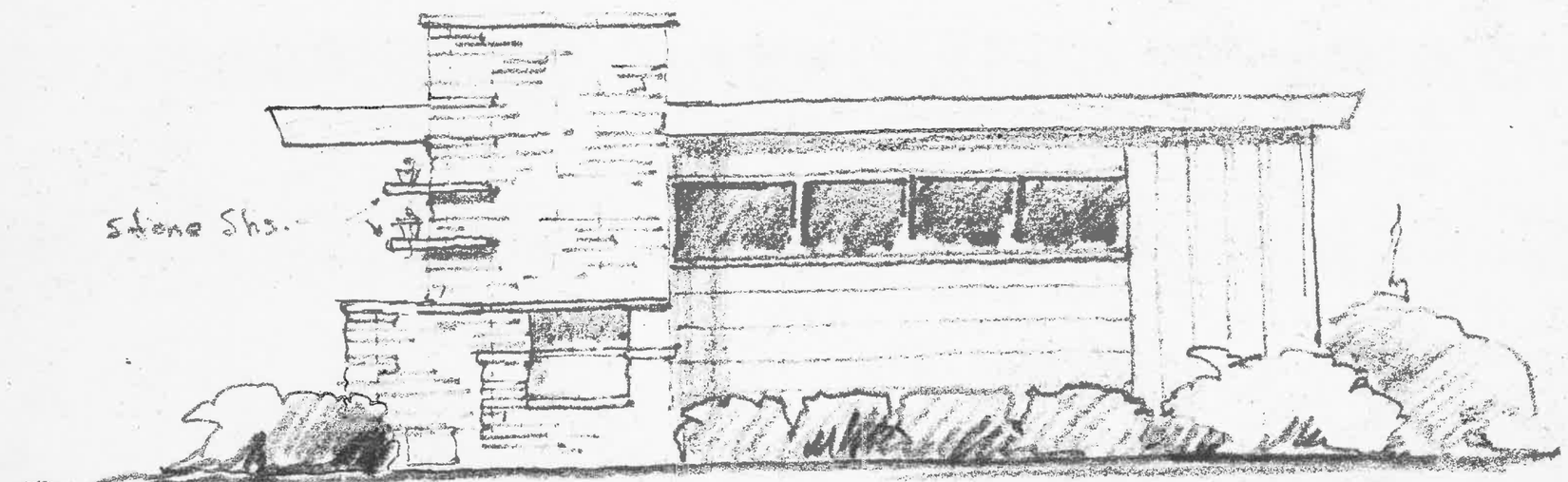
1. Owner: Dickt Bonnie Nestor Telephone: 414-355-3394
2. Owner Address: 3605 W Hirschoff City: Brown Deer Zip: 53223
3. Location of Structure: Near Roof
4. Cost of Job: 5,500.00 Fee: 50.00 Lot ____ Block ____ Subd. ____
5. Kind of Building (factory, office, store, dwelling): ____
6. Class of Construction: ____ To Be Occupied By: ____
7. Name of Contractor: Riener Remodeling Telephone: 262-375-1904
8. Contractor Address: 10799 Bridge Rd City: Cedarburg Zip: 53012
9. Arch.-Design Eng.: ____ Telephone: ____
10. Arch.-Design Eng. Address: ____ City: ____ Zip: ____
11. Is Building: ____ Old ____ New ____ Being Remodeled
12. State in detail kind of occupancy or work to be performed: (Mention alterations, replacements, etc.)

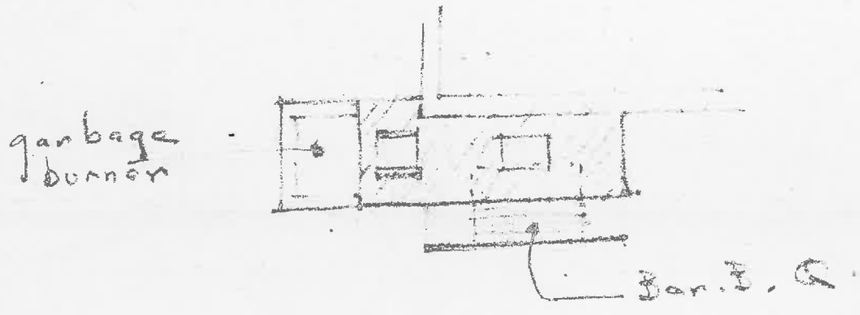
Remove old roof + Install New Roof CERTAINTEED 30 YEAR DIMENSIONAL SHINGLE

It is Hereby Agreed between the undersigned as owner or his/her agent, and the Village of Brown Deer, that for and in consideration of the premises and of the permit to construct erect, alter or install and the occupancy of building as above described, to be issued and granted by the Building Inspector, that the work thereon will be done in accordance with the descriptions herein set forth in this statement, and as more fully described in the specifications and plans herewith filed; and it is further agreed to construct, erect, alter or install and occupy in strict compliance with the ordinances of the Village of Brown Deer, and to obey any and all lawful orders of the Building Inspector of the Village of Brown Deer, and all State Laws relating to the construction, alteration, repairs, removal and safety of buildings and other structures and permanent building equipment.

Signed: Art J Riener

Contractor Certification Number: 249617


Stone Sh.


garbage burner
Bar. B. G.