



RIS Custom Shrouds

Minimum Dimensions and Construction Guidelines



It is a common practice in some regions for chimneys to be installed with a decorative shroud surrounding the standard termination cap. There are three styles of shrouds that are permissible to use with the RIS Chimney System. They are referred to in these instructions as:

- Pyramid style
- Mailbox style
- House style

Each individual style has its own set of criteria. Below are the guidelines for all three styles.

Note: All Shrouds must be constructed of Stainless, Aluminized, or any other non-corrosive material. Non-metallic material - such as brick, stone, clay products, stucco, etc., may also be used if they are 100% non-combustible, can withstand the surrounding environment (exposure to heat, cold, rain, ice, snow, UV, etc.) and are approved by the local authority having jurisdiction.

Note: Sides (of all styles) may be vertical, sloped or curved if desired, as long as minimum opening is maintained.

Note: This document is applicable to shrouds housing one chimney termination only. For shrouds containing multiple chimneys; please contact ICC directly at info@icc-rsf.com for consultation prior to fabrication and installation.

Note: The factory built and listed chimney termination must be accessible for servicing and maintenance.

Note: A drain opening must be provided at the base of the shroud to allow water to escape.

Note: The chase must be terminated with a metal chase top flashing. The chase must extend at least 2 feet above its point of contact with the roof and at least 1 foot higher than any wall, roof or adjacent building within 10 feet of it.

Note: The Model RIS Installation Instructions must be respected in every way even if a Custom Shroud is constructed around the standard termination cap.

H = Minimum height of shroud

W= Minimum width of shroud

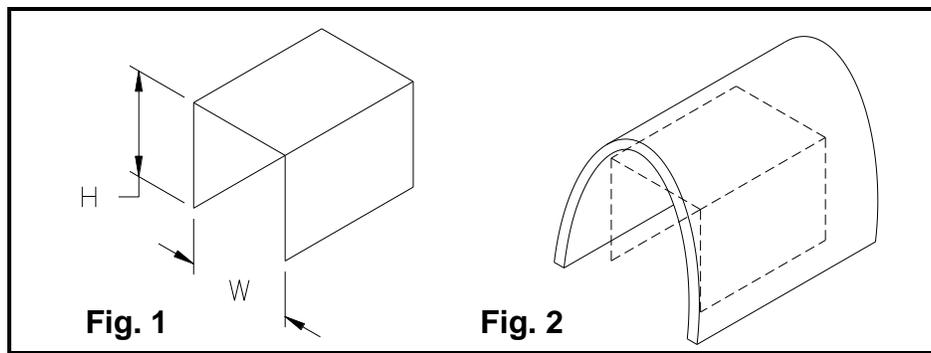
L = Minimum length of shroud (Pyramid Style)

h = Minimum height of opening at bottom of shroud (Pyramid Style)*

*: h dimension based on total area of opening at shroud bottom on all four sides being approximately equal to outlet area of pipe.

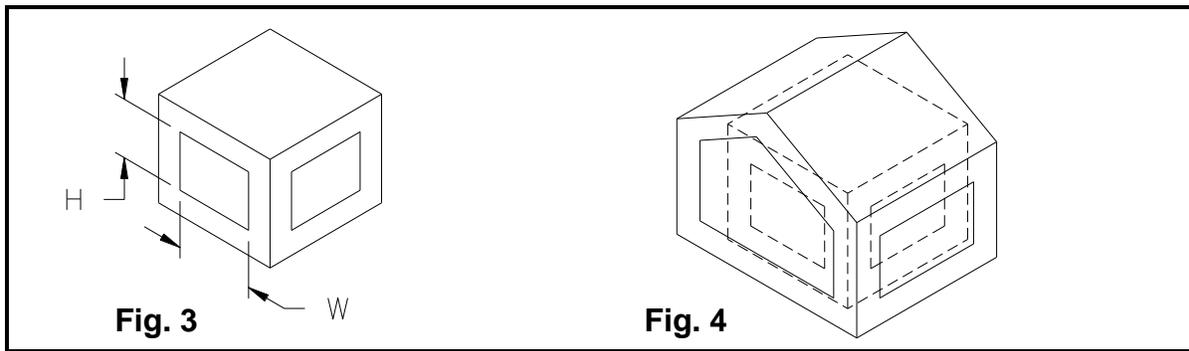
Mailbox Style Shroud				
Dia.	H Minimum Height (in.)	Pipe Opening Area (Sq.in.)	Minimum Single Open Area (HxW) (Sq.in.)	Minimum Total Open Area 2(HxW) (Sq.in.)
10	6.5	79	158	316
12	8	113	226	452
14	9.5	154	308	616
16	10.5	201	402	804
18	12	254	508	1016
20	13.5	314	628	1256
22	15	380	760	1520
24	16	452	904	1808

Dashed lines represent minimum dimensional design from Figure 1. This represents the minimum open area that must be present. (See Fig. 1)



House Style Shroud			
Dia.	Pipe Opening Area (Sq.in.)	Minimum Single Open Area (HxW) (Sq.in.)	Minimum Total Open Area 4 (HxW) (Sq.in.)
10	79	79	316
12	113	113	452
14	154	154	616
16	201	201	804
18	254	254	1016
20	314	314	1256
22	380	380	1520
24	452	452	1808

Dashed lines represent minimum dimensional design from Figure 3. This represents the minimum open area that must be present. (See Fig. 3)

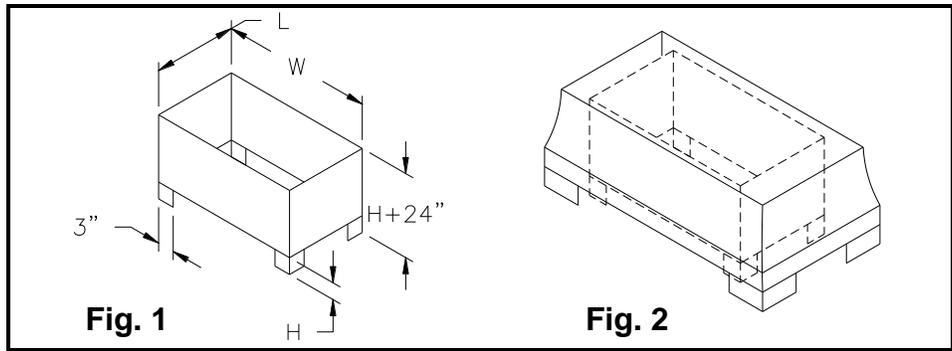


Pyramid Style Shroud

Dia.	W (in.)	L (in.)	h (in.)
10	20	20	1.30
12	24	24	1.65
14	27	27	2.00
16	31	31	2.25
18	34	34	2.63
20	37	37	2.75
22	41	41	3.00
24	44	44	3.50

Dashed lines represent minimum dimensional design from Figure 5. This represent the minimum open area that must be present. (See Fig. 5)

Note: The top of the chimney Rain Cap must terminate flush with the top of the Pyramid Style Shroud.



Note: As long as the shroud is designed and built according to these guidelines then the performance the RIS chimney system will be consistent with the safety listing of the chimney. It is important to respect these guidelines. Failure to do so can result in a hazardous installation.

