TABLE 4 MAXIMUM TEMPERATURE RISES FOR SOME MATERIALS^a

(Reference Clauses: 7.6.20, 7.7.15, 7.8.6)

Construction Materials of Chimney and Chimney Parts	Maximum Temperature Rise Above Room Temperature	
	Column 1 °C	Column 2
		°C
Low-carbon steel, cast iron	460	515
Aluminum alloys		
1100 (2S)	185	240
3003 (3S)	240	295
2014, 2017, 2024, 5052 ^b	295	350
Aluminum-coated steel, heat-resistant type ^c	570	710
Stainless steel		
Types 302, 303, 304, 321, 347	685	765
Type 316	665	745
Type 309S	865	945
Types 310, 310B	895	975
Туре 430	730	810
Type 446	960	1040
Galvanized steel ^d	265	350
Carbon steel - coated with Type A19 ceramic	570	630
^a The specified maximum temperature rises apply to parts whose	failure may cause the chimney to I	be unsafe for use.
^b These and other alloys containing more than 1.0 % magnesium	are not to be used if the reflectivity	y of the material is utilized
to reduce fire hazard.		
$^{\rm c}$ When the reflectivity of aluminum-coated steel is utilized to redu 460 $^{\circ}{\rm C}.$	uce fire hazard, the maximum allow	able temperature rise is
^d The specified maximum temperature rises apply when the galva the surface is utilized to reduce fire hazard.	anizing is required as a protective c	oating or the reflectivity of
NOTE: The inclusion of a temperature limit for a material in Table		114 - of also constant of th

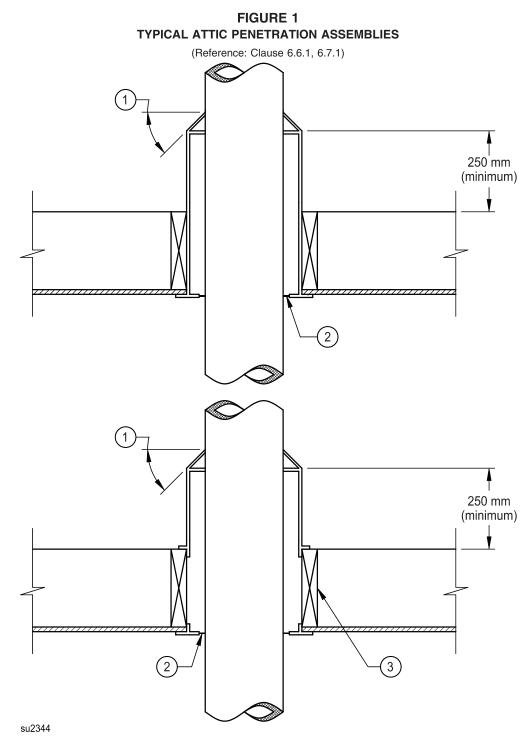
NOTE: The inclusion of a temperature limit for a material in Table 4 is not indicative of the acceptability of the material if it does not otherwise conform to these requirements.

TABLE 5MAXIMUM SURFACE TEMPERATURES OF HANDLES OR KNOBS

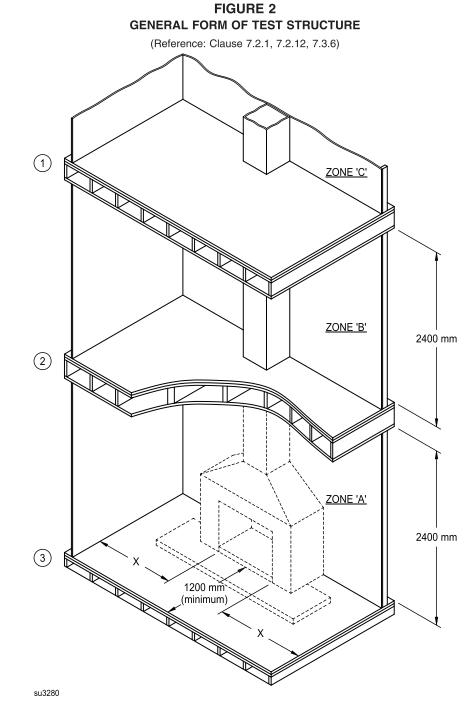
(Reference: Clause 7.7.18)

	Material	Temperature (°C)
Metallic		50
Glass		78
Ceramic		85
Plastic		85
Wood		150

FIGURES



- 1 Not less than 45°
- 2 To be sealed at penetration of building envelope
- 3 Framed on all four sides



- 1 38 x 184 mm joist
- 2 38 x 235 mm joist
- 3 38 x 89 mm joist
- X Manufacturer's minimum clearance, but not less than 1200 mm

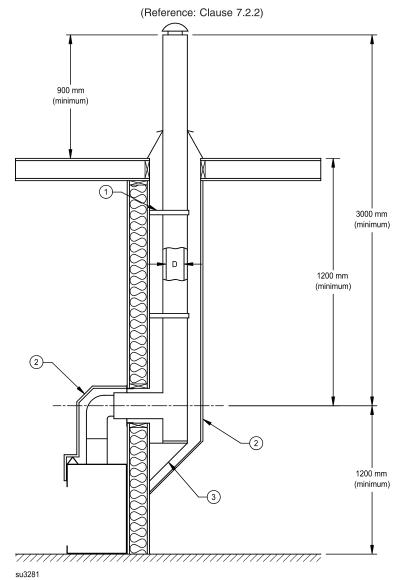


FIGURE 3 TEST STRUCTURE FOR EXTERIOR THROUGH-THE-WALL INSTALLATION

- 1 Wall support
- 2 18.5 mm plywood enclosure
- 3 Base support

NOTE 1: Wall section to consist of a 1219 mm by 2439 mm panel framed with 38 mm by 184 mm studs, header and plate. Opening to be framed in on all four sides at minimum spacings recommended by the manufacturer and maintained by factory supplied spacers. Panels to be insulated with RSI 4.4 fiberglass and clad with 18.5 mm plywood.

NOTE 2: To be sealed at penetration of building envelope.

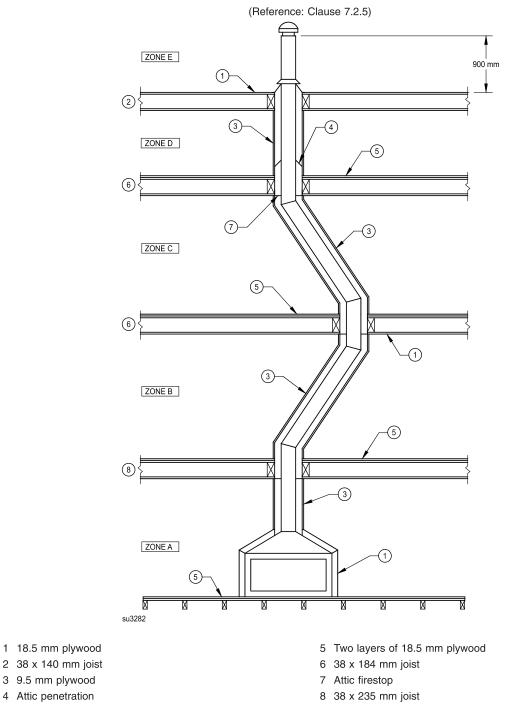
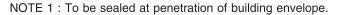


FIGURE 4 GENERAL FORM OF TEST STRUCTURE (ELBOWS IN CHIMNEY RUN)



NOTE 2: The number of floors is determined by the height of the assembly to be tested.

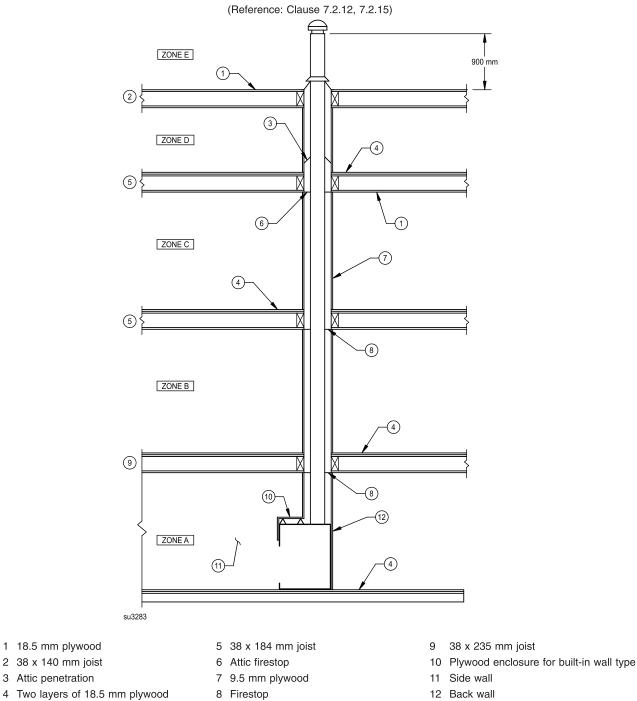


FIGURE 5 GENERAL FORM OF TEST STRUCTURE (WITHOUT ELBOWS IN CHIMNEY RUN)

NOTE 1 : To be sealed at penetration of building envelope.

NOTE 2: The number of floors is determined by the height of the assembly to be tested.

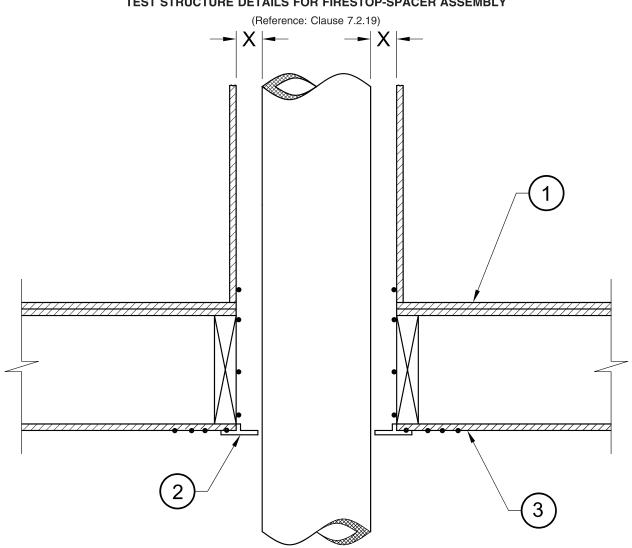


FIGURE 6 TEST STRUCTURE DETAILS FOR FIRESTOP-SPACER ASSEMBLY

su2568

- 1 19 mm plywood floor and subfloor
- 2 Factory made firestop-spacer assembly
- 3 19 mm plywood ceiling

Joists - Four sides at zero clearance to firestop-spacers

Floor and ceiling material cut flush with inside of joists.

- X Specified clearance of enclosure
- Denotes thermocouple location

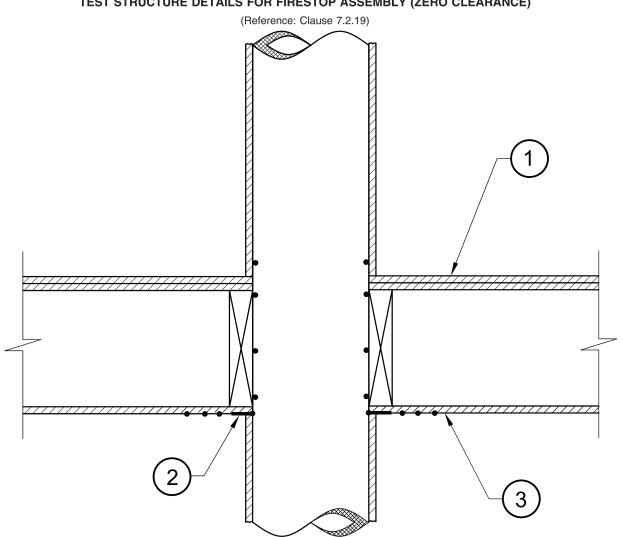


FIGURE 7 TEST STRUCTURE DETAILS FOR FIRESTOP ASSEMBLY (ZERO CLEARANCE)

su2569

- 1 19 mm plywood floor and subfloor
- 2 Factory made firestop assembly

Joists — Four sides at zero clearance to firestop-spacers.

Floor and ceiling material cut flush with inside of joists.

Enclosure shown at zero clearance.

- 3 19 mm plywood ceiling
- Denotes thermocouple location

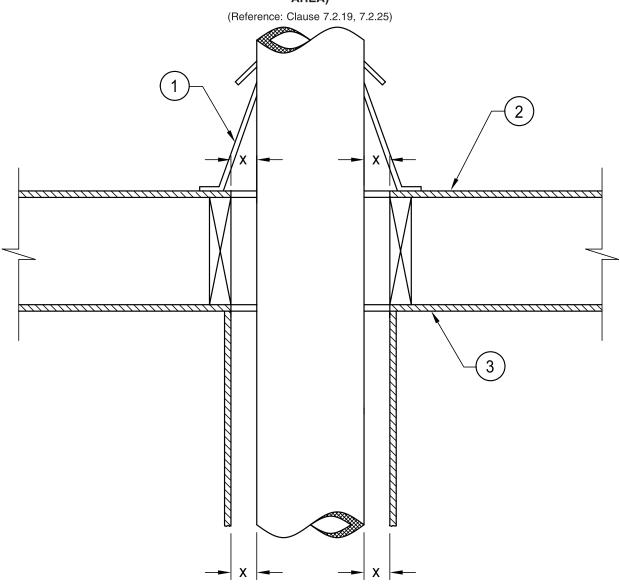


FIGURE 8 TEST STRUCTURE DETAILS FOR ROOF ASSEMBLY (ROOF ASSEMBLY LARGER THAN ENCLOSURE AREA)

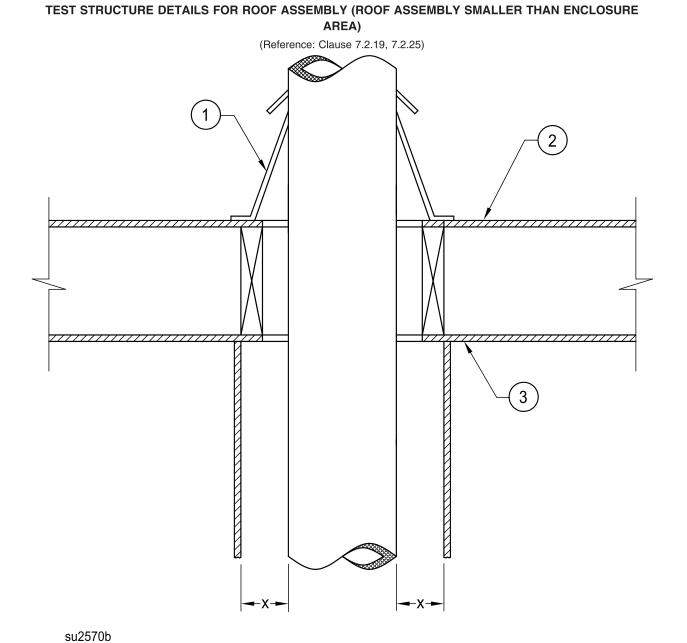
su2570a

- 1 Factory-made roof assembly
- 2 18.5 mm plywood roof
- 3 18.5 mm plywood ceiling

Joists - Four sides at 'X' (specified clearance to chimney sections)

Floor and ceiling material cut flush with joists

FIGURE 9



- 1 Factory-made roof assembly
- 2 18.5 mm plywood roof
- 3 18.5 mm plywood ceiling

Joists - Four sides at 'X' (specified clearance to chimney sections)

Floor and ceiling material cut flush with joists