



INSTALLATION INSTRUCTIONS

Therminox TI & ZI - Twin wall insulated chimney system

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Type of flue

- Twin wall chimney, insulated by 30 mm high pressure injected mineral wool (TI/ZI type).

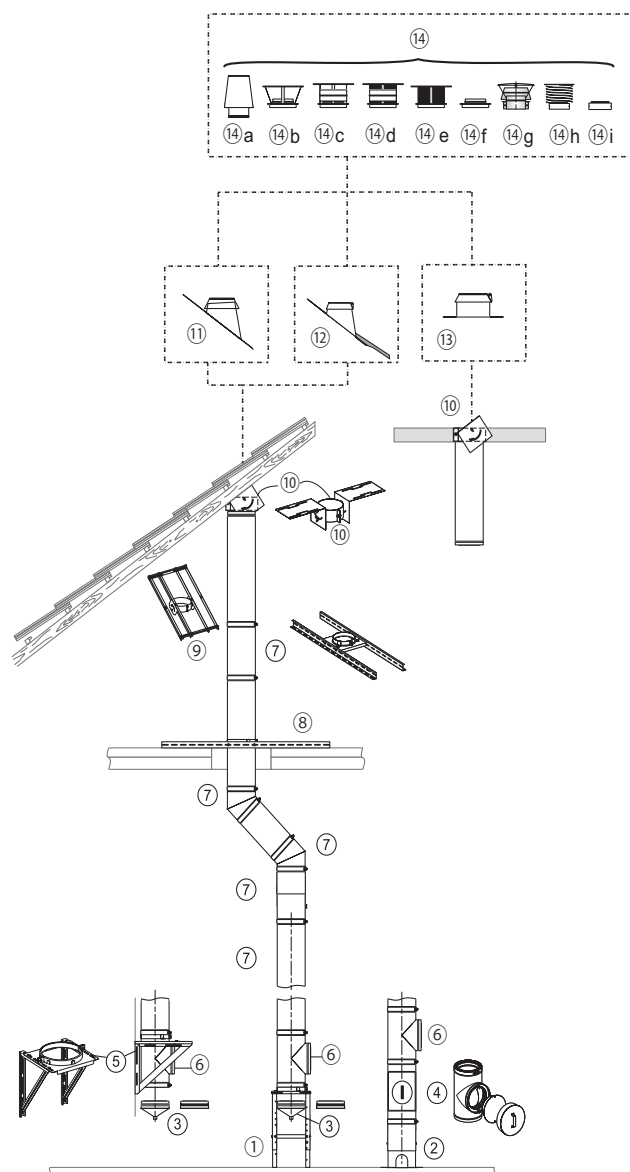
Range	Ø	CE no.	date	without joint seal	with joint seal
TI	80 => 300	0071-CPR-0011	2004	T250 N1 W V2L50040 O20	T200 P1 W V2L50040 O20
				T450 N1 W V2L50040 G50	
	350 => 450			T250 N1 W V2L50050 O30	T200 P1 W V2L50050 O30
				T450 N1 W V2L50050 G75	
	500			T250 N1 W V2L50050 O40	T200 P1 W V2L50050 O40
				T450 N1 W V2L50050 G100	
	600			T250 N1 W V2L50060 O40	T200 P1 W V2L50060 O40
				T450 N1 W V2L50060 G100	
ZI	80 => 300	0071-CPR-0011	2004	T250 N1 W V2L50040 O2	T200 P1 W V2L50040 O20
				T450 N1 W V2L50040 G50	
	350 => 450			T250 N1 W V2L50050 O30	T200 P1 W V2L50050 O30
				T450 N1 W V2L50050 G75	
	500			T250 N1 W V2L50050 O40	T200 P1 W V2L50050 O40
				T250 N1 W V2L50050 O40	
	600			T250 N1 W V2L50060 O40	T200 P1 W V2L50060 O40
				T450 N1 W V2L50060 G100	

Designation according to EN 1856-1

- T450 (T160, T200, T250) temperature level: Normal operating temperature not exceeding 450° C (160°C, 200°C, 250°C)
- N1 pressure level: negative pressure chimney
- P1 pressure level: positive pressure chimney (up to 200 Pa)
- Resistance to condensate class: W = wet condensation
- Corrosion resistance V2 = Test 2
- Inner wall : - L 50= steel grade: Mat No 1.4404 (AISI 316 L) L 20 = Mat No 1.4301 (AISI 304)
- Wall thickness 040=0,4mm
- Wall thickness 050=0,5mm
- Minimum distance to combustible materials: G50, G75, G100 :

Order of installation

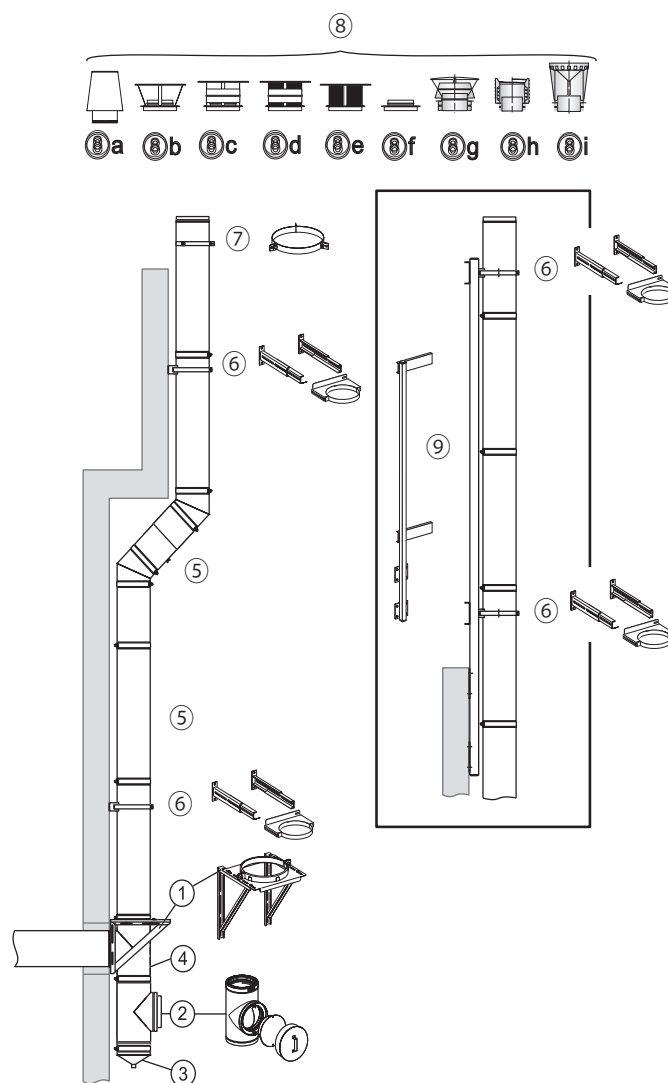
Drawing 1 (internal twin wall chimney system)



Poujoulat product reference

- | | |
|--|---|
| 1 - Connecting flue pipe | 14 - Terminals |
| 2 - CO alarm | - 14a - Cone top (ref: CFI) |
| 3 - Connection length (ref: EDP) | - 14b - Rain cap (ref: CPI) |
| 4 - Ceiling cover ring (ref: ROS EDP) | - 14c - Vented cap (ref: CAI) |
| 5 - Wall support (ref: SM - SMI - SMR) | - 14d - Vented cap + mesh (ref: CAOI) |
| 6 - Tee (ref: T90 - T135) | - 14e - Rain cap + mesh (ref: CPOI) |
| 7 - Length & Elbow (ref: ED - ER - EC) | - 14f - Weather top (ref: FH) |
| 8 - Joist support (ref: SP) | - 14g - Anti-downdraught cap top (ref: CAG) |
| 9 - Rafter support for vaulted ceiling (ref: SCIA) | - 14h - Spiral cap (ref: CASP) |
| 10 - Rafter support (ref: SAT) | - 14i - Venitian cone (ref: CFV) |
| 11 & 12 & 13 - Flashing (ref: SIT - SIO) | |

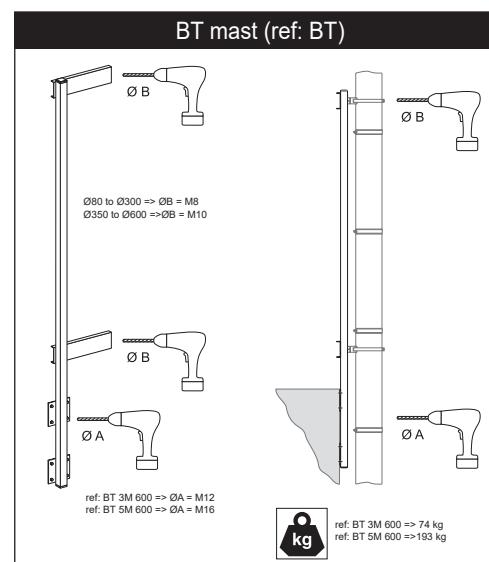
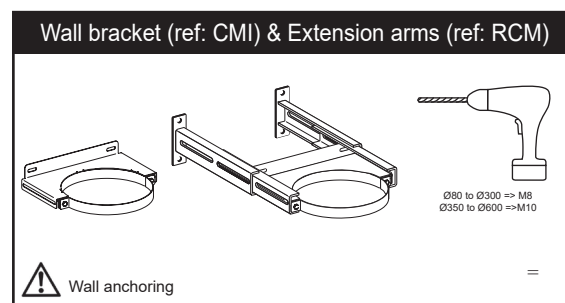
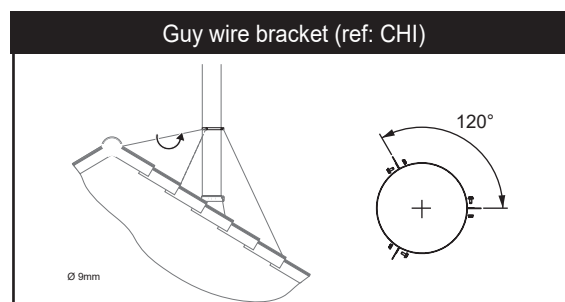
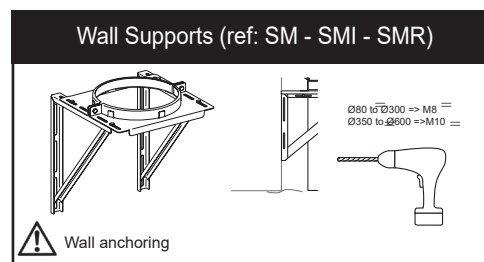
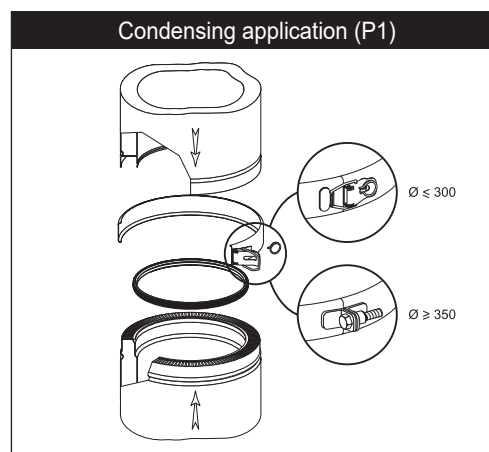
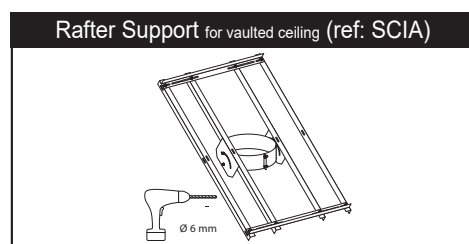
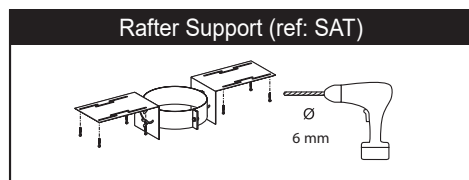
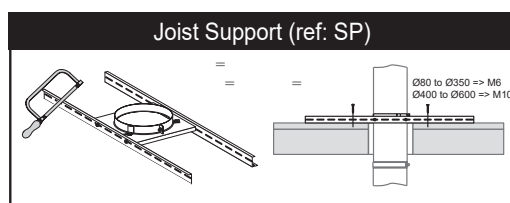
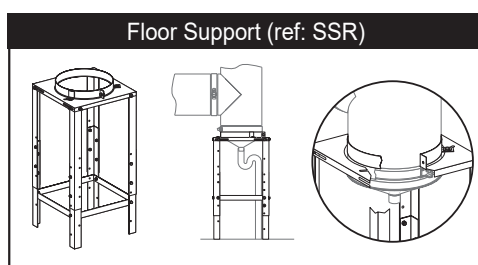
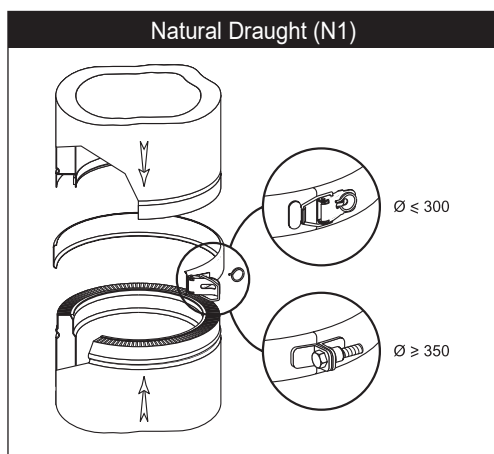
Drawing 2 (external twin wall chimney system)



Poujoulat product reference

- | | |
|--|---|
| 1 - Wall support (ref: SMI - SMR) | 8 - Terminals |
| 2 - Inspection length (ref: EDTV) | - 14a - Cone top (ref: CFI) |
| 3 - Drain plug (ref: CE) | - 14b - Rain cap (ref: CPI) |
| 4 - Tee (ref: T90 - T135) | - 14c - Vented cap (ref: CAI) |
| 5 - Length & Elbow (ref: ED - ER - EC) | - 14d - Vented cap + mesh (ref: CAOI) |
| 6 - Wall bracket (ref: CMI) | - 14e - Rain cap + mesh (ref: CPOI) |
| 7 - Guy wire bracket (ref: CHI) | - 14f - Weather top (ref: FH) |
| | - 14g - Anti-downdraught cap top (ref: CAG) |
| | - 14h - Spiral cap (ref: CASP) |
| | - 14i - Venitian cone (ref: CFV) |
| | 9 - BT mast (ref: BT) |

Installation of components



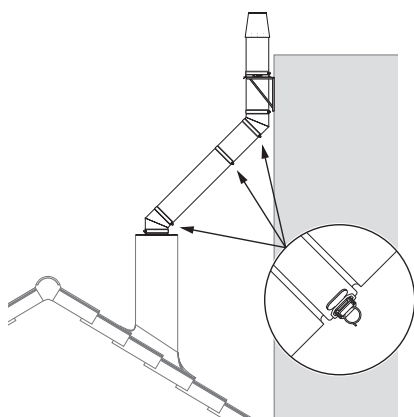
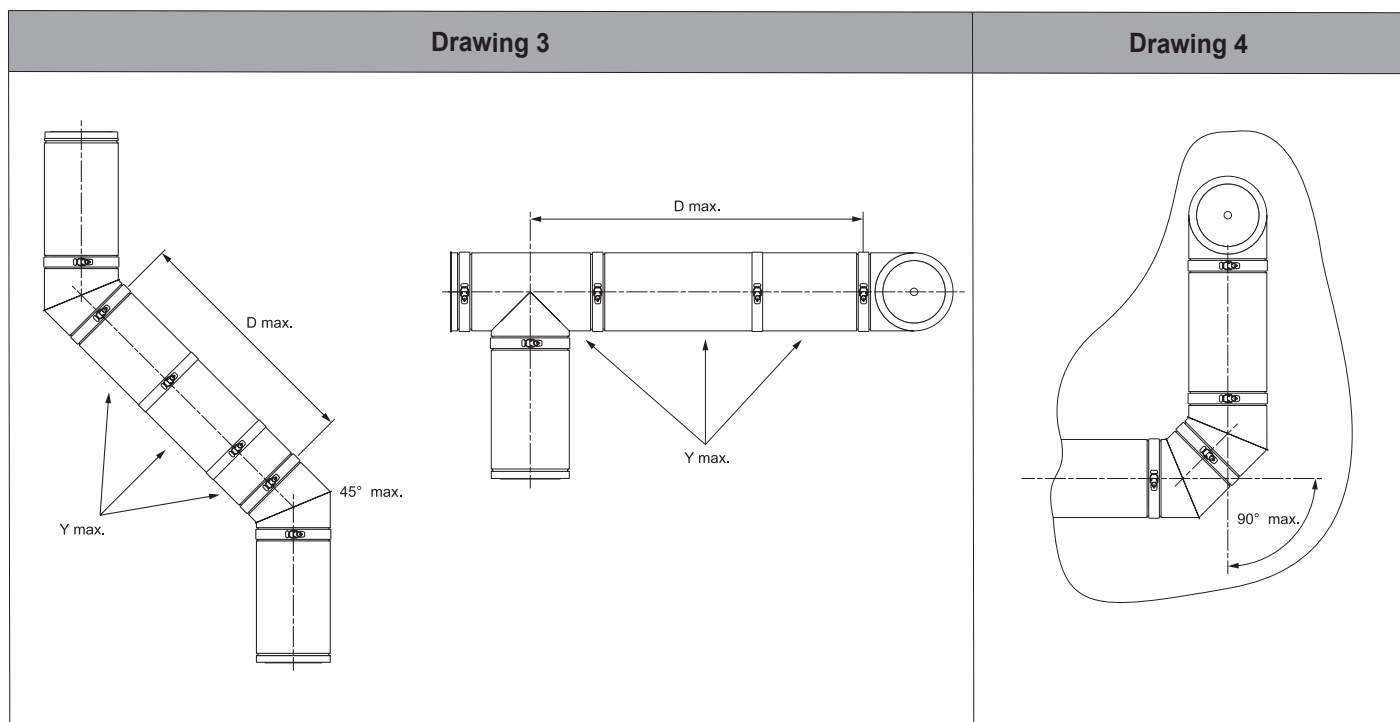
WARNING – Protect yourself – Use the right equipment & correct tools !

Always wear safety glasses to protect your eyes against dust, flying objects, flash lights & UV. Always wear gloves to protect yourself against cuts, shocks, burns. Always test your stability before power works (tightening, traction...). Take care of your back during lifting operations (keep back straight and bend legs). Use an appropriate tool. Each tool is designed for a specific function. Do not use a tool for a use for which it isn't designed. Only the right tool provides safety, comfort and productivity. Never leave a tool unattended. When not in use, always close the tool or protect the blade to prevent injury from accidental contact

Maximum distance between two elbows or two tees:

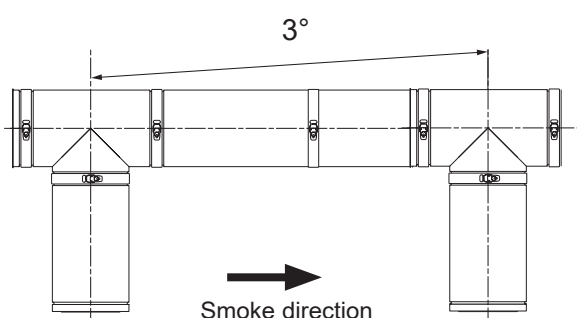
- D max. : Maximum distance between two elbows without suspension collar (in meters).
- Y max. : Maximum number of lengths between two elbows. If larger than D max., add a support (CMI, CSC, etc.) every Y lengths.

		THERMINOX TI/ZI												
	Drawing	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500	Ø600
D max.	3 & 4	3	3	3	3	3	3	3	3	3	2	2	2	2
Y max.		3	3	3	3	3	3	3	3	3	3	3	3	3



WARNING - For an offset realized outside of a building, the toggle catch system of the locking band should face downwards.

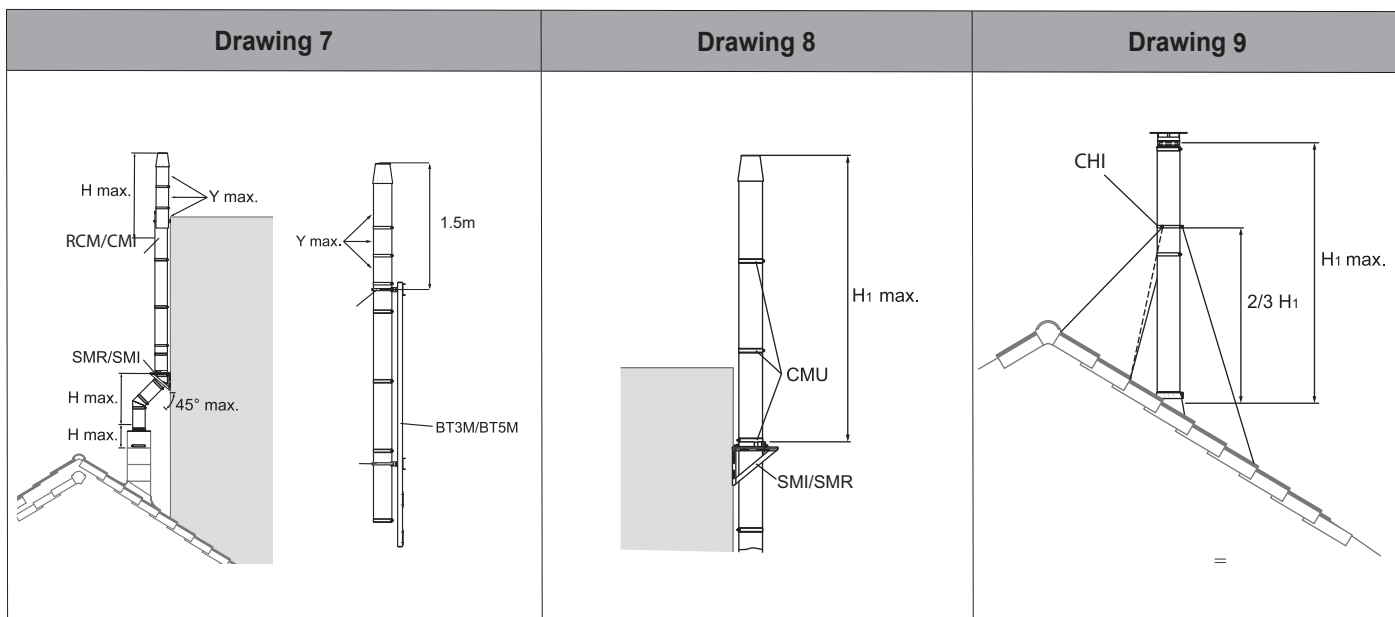
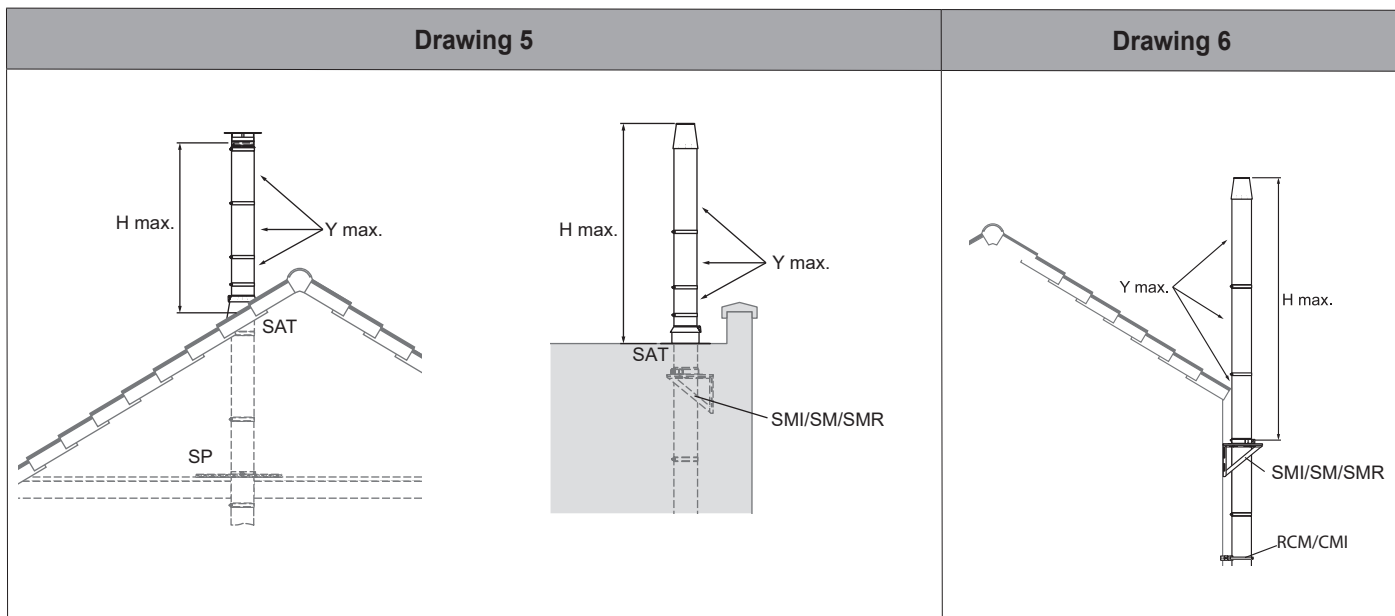
Minimum pitch for the header :



Free standing height (H in meters)

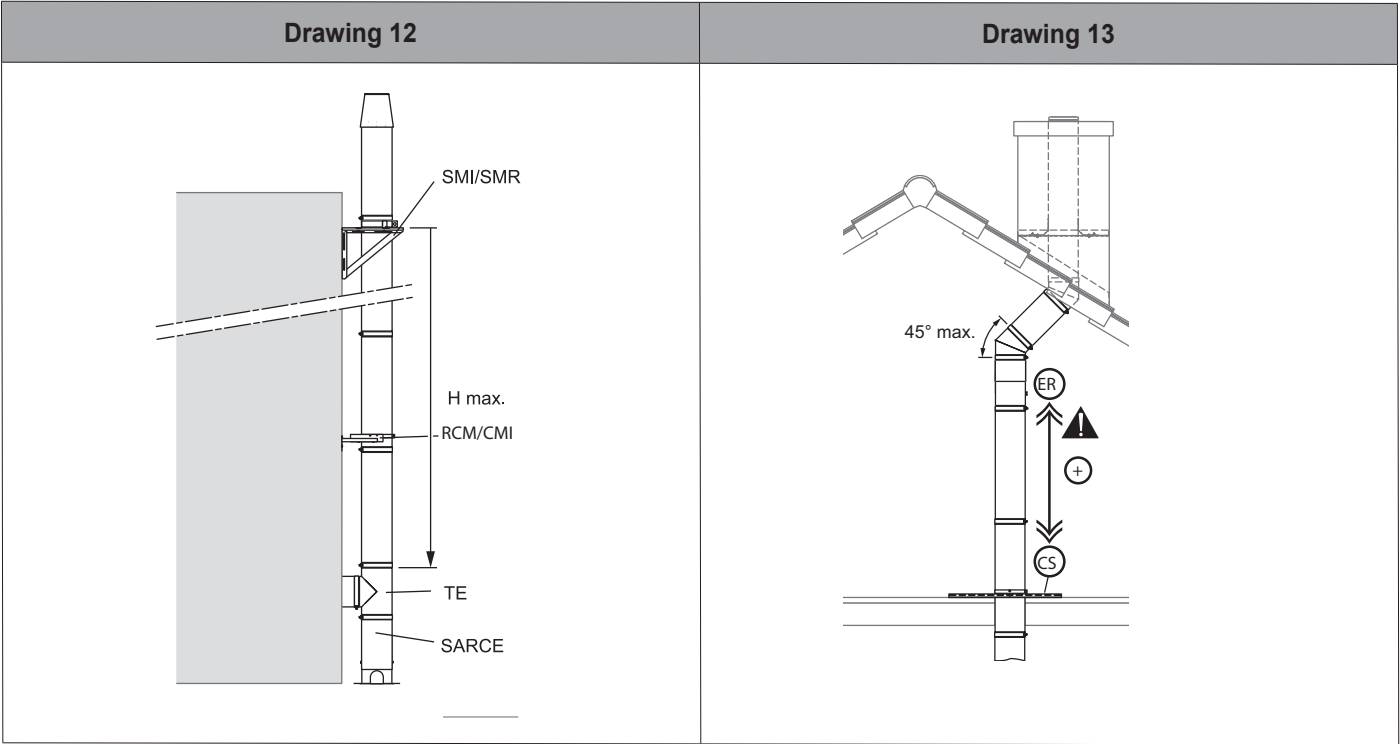
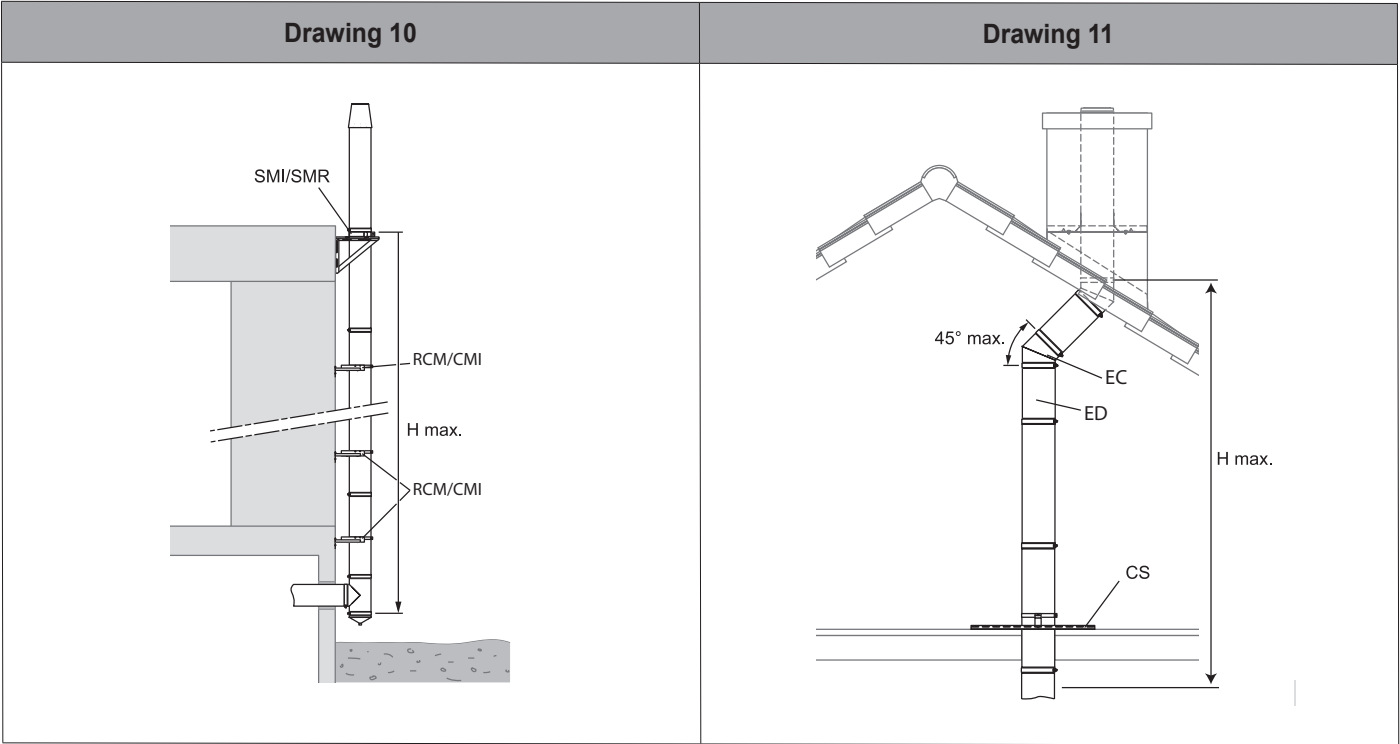
- Y max: Maximum number of lengths above of the last support.

		THERMINOX TI/ZI												
	Drawing	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500	Ø600
H max.	5, 6 & 7	2	2	2	2	2	2	2	2	3	3	3	3	3
Y max.		2	2	2	2	2	2	2	2	3	3	3	3	3
H1 max.	8 & 9	3	3	3	3	3	3	3	3	3	3	3	3	3



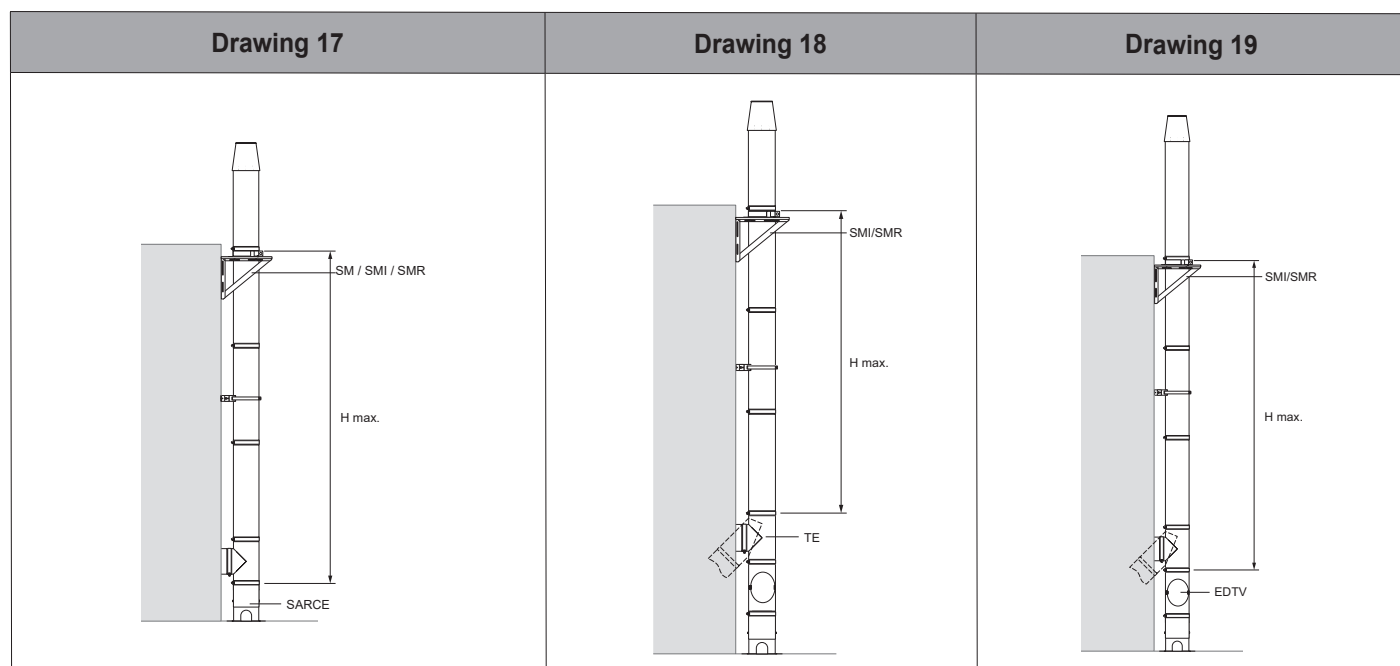
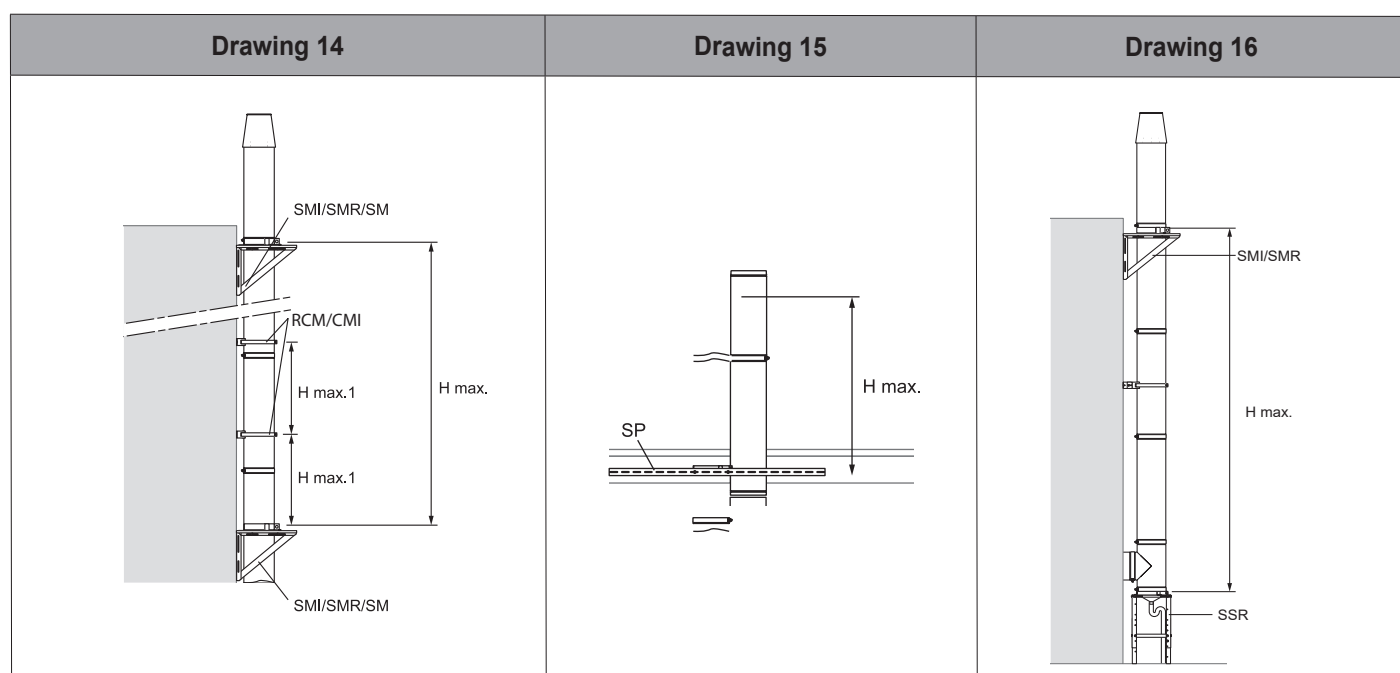
Tensile strength (in meters)

			THERMINOX TI/ZI												
	Reference	Drawing	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500	Ø600
H.max	SMI / SMR	10	16	16	16	16	16	16	16	16	12	12	12	8	8
H.max	SM		12	12	12	12	12	12	12	12	8	-	-	-	-
H.max	ED / EC	11	10	10	10	10	10	10	10	10	-	-	-	-	-
H.max	SMI / SMR	12	16	16	16	16	16	16	16	16	12	12	12	12	12
H.max	SM		16	16	16	16	16	16	16	16	12	12	12	12	12



Compressive strength (in meters)

			THERMINOX TI/ZI												
	Reference	Drawing	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500	Ø600
H.max	SMI	14	16	16	16	16	16	16	16	16	12	12	12	12	12
H.max	SMR 05-20		16	16	16	16	16	16	16	16	12	12	12	12	12
H.max	SMR 20-40		-	-	8	8	8	8	8	8	8	8	8	6	6
H.max	SMR 30-60		-	-	8	8	8	8	8	8	8	8	8	6	6
H.max.1	CMI + RCM		4	4	4	4	4	4	4	4	3	3	3	3	3
H.max.1	SP	15	10	10	10	10	10	10	10	10	10	10	10	10	10
H.max	SSR	16	12	12	12	12	12	12	12	12	8	8	8	8	8
H.max	SARCE	17	12	12	12	12	12	12	12	12	8	8	8	8	8
H.max	TE	18	16	16	16	16	16	16	16	16	12	12	12	12	12
H.max	EDTV	15	12	12	12	12	12	12	12	12	8	8	8	8	8

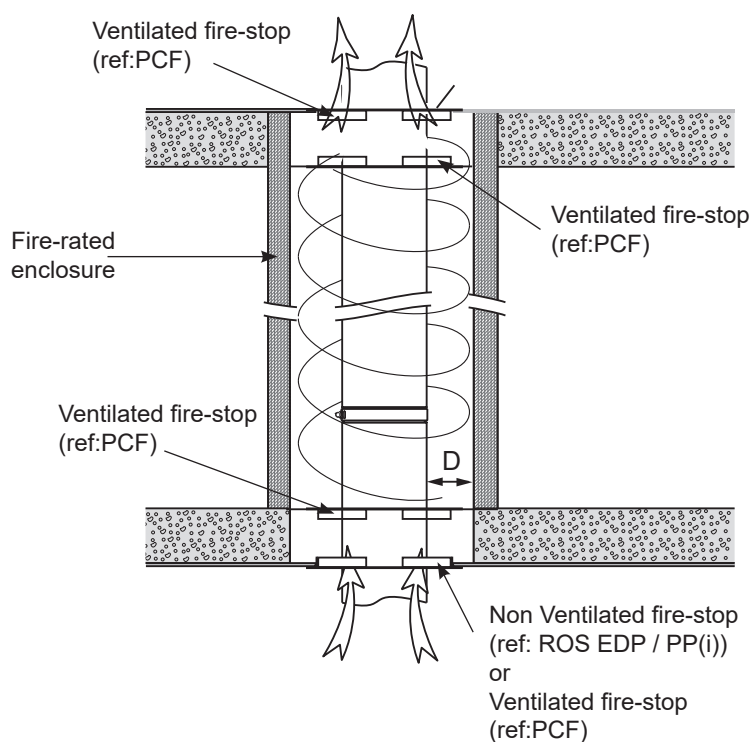


Distance to combustible materials

	THERMINOX TI/ZI												
	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500	Ø600
T450	D = 50 mm								D = 75 mm			D = 100 mm	
T250	D = 20 mm								D = 30 mm			D = 40 mm	
T200	D = 20 mm								D = 30 mm			D = 40 mm	

Fire-stop and fire rated enclosure arrangement when passing through two or more floors.

- Therminox and fire-stops have been tested to BS476 part 20 to achieve a maximum four hour rating.



T450: D = 50mm distance to combustible materials

T250: D = 20mm distance to combustible materials

T200: D = 20mm distance to combustible materials



