

# DIN EN 13084-6:2016-02 (E)

## Free-standing chimneys - Part 6: Steel liners - Design and execution

---

<b>Contents</b>		<b>Page</b>
	European foreword .....	3
<b>1</b>	<b>Scope</b> .....	<b>4</b>
<b>2</b>	<b>Normative references</b> .....	<b>4</b>
<b>3</b>	<b>Terms and definitions</b> .....	<b>5</b>
<b>4</b>	<b>Material</b> .....	<b>6</b>
4.1	General .....	6
4.2	Steels .....	6
<b>5</b>	<b>General design requirements</b> .....	<b>6</b>
5.1	General .....	6
5.2	Liner .....	6
5.3	Liner details .....	6
5.3.1	Supports and/or guides .....	6
5.3.2	Openings .....	7
5.3.3	Drainage system .....	7
5.3.4	Seals, gaskets and jointing compounds .....	7
5.3.5	Expansion joints .....	7
5.3.6	Chimney cap .....	7
5.3.7	Insulation .....	7
5.3.8	Cladding .....	8
5.3.9	Internal protection .....	8
5.3.10	Lightning protection .....	8
5.4	Gas tightness .....	8
5.5	Temperature classes .....	9
<b>6</b>	<b>Structural design</b> .....	<b>9</b>
6.1	Actions .....	9
6.1.1	General .....	9
6.1.2	Permanent action .....	9
6.1.3	Wind actions .....	10
6.1.4	Thermal actions .....	10
6.1.5	Internal pressure at design conditions .....	11
6.2	Verification .....	12
6.2.1	General .....	12
6.2.2	Mechanical characteristics .....	12
6.3	Openings in the liner .....	12
<b>7</b>	<b>Construction</b> .....	<b>12</b>
7.1	Tolerances .....	12
7.2	Surface protection against chemical attack .....	12
	Annex A (informative) Calculation method for combined flue gases with different temperatures .....	13
	Bibliography .....	16