

# DIN EN 12254:2012-04 (E)

## Screens for laser working places - Safety requirements and testing (includes Corrigendum AC:2011)

---

<b>Contents</b>		<b>Page</b>
Foreword .....		3
1	Scope .....	4
2	Normative references .....	4
3	Terms and definitions .....	5
4	Requirements .....	5
4.1	Spectral transmittance .....	5
4.2	Resistance to laser radiation .....	5
4.3	Stability to UV radiation .....	5
4.4	Stability to elevated temperature .....	5
4.5	Mechanical strength .....	5
4.6	Resistance to ignition .....	6
5	Testing .....	6
5.1	General .....	6
5.2	Spectral transmittance .....	6
5.3	Resistance to laser radiation .....	6
5.4	Stability to UV radiation and stability at elevated temperature .....	8
5.4.1	Stability to UV radiation .....	8
5.4.2	Stability at elevated temperature .....	8
5.5	Mechanical strength .....	8
5.5.1	Flexible screens .....	8
5.5.2	Inflexible screens .....	9
5.5.3	Resistance to ignition .....	9
6	Marking .....	10
7	Information supplied by the manufacturer .....	11
Annex A (informative) Principles .....		12
A.1	Limit values .....	12
A.2	Time base used to calculate the MPE values .....	12
A.3	Resistance to laser radiation .....	12
A.4	Example test report .....	14
Annex B (informative) Selection of screens for laser working places .....		16
B.1	General .....	16
B.2	Pulsed lasers .....	16
B.3	Caution for users of laser safety screens .....	17
Annex C (informative) Significant technical changes between this European Standard and the previous edition .....		18
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC .....		19

**Bibliography ..... 20**