

# DIN 18008-4:2013-07 (E)

## Glass in Building - Design and construction rules - Part 4: Additional requirements for barrier glazing

---

<b>Contents</b>	<b>Page</b>
Foreword .....	4
1 Scope .....	5
2 Normative references .....	6
3 Terms and definitions.....	7
4 Construction products .....	7
5 Conditions of application.....	8
5.1 Edge protection requirements.....	8
5.2 Proof of edge protection.....	8
6 Exposure to stress and proof of resistance .....	8
6.1 Ultimate limit state (ULS) for static loads and stress effects .....	8
6.2 Ultimate limit state (ULS) for impact .....	9
Annex A (normative) Proof of glazing impact resistance by building-component tests.....	10
A.1 Pendulum impact test .....	10
A.2 Penetration test.....	14
A.3 Test report .....	15
Annex B (normative) Constructions with proven impact resistance .....	16
B.1 Linearly supported glazing units of Categories A and C .....	16
B.2 Point-fixed glazing units of Categories A and C .....	18
B.3 Linearly supported glazing of Category B.....	19
Annex C (normative) Proof of the impact resistance of glass structures determined by calculation.....	22
C.1 Bases of calculation.....	22
C.1.1 General .....	22
C.1.2 Design and construction stipulations .....	22
C.1.3 Exposure to stress .....	22
C.1.4 Resistance.....	22
C.1.5 Proof of impact resistance of insulating glass units .....	23
C.1.6 Proof of impact resistance of laminated safety glass .....	23
C.1.7 Overlaying of impact loads with other actions .....	23
C.2 Simplified proof procedure.....	23
C.2.1 Bases of calculation.....	23
C.2.2 Exposure to stress .....	24
C.2.3 Proof .....	24
C.3 Proof by means of fully dynamic transient simulation of impact event.....	25
C.3.1 General .....	25
C.3.2 Verification .....	26
C.3.3 Proof.....	30
Annex D (normative) Proof of the impact resistance of supporting structures.....	31
D.1 Linear support structures .....	31
D.2 Point-fixed support structures .....	31
Annex E (normative) Proof of edge protection by component test.....	32

**E.1 General ..... 32**  
**E.2 Test execution..... 32**  
**E.3 Test report ..... 32**  
**Annex F (normative) Effective edge protection, proven by tests ..... 35**  
**Bibliography ..... 36**