

### Requirements and Test

The test for burglar retardant door sets according to the German standard **DIN EN 1627** consist of 3 parts :

#### 1. Static Stress

A pressure of 3 to 10 kN is produced by a hydraulic thruster. The maximum permissible excursion must not be exceeded.

#### 2. Dynamic Stress

A sandbag of 30 kg with a pendulum length of 1500mm and a fall of 800mm is thrown against the door blank centrally and near the hinges and the lock. The door must not be as damaged as to allow to break in.

#### 3. Tool Stress

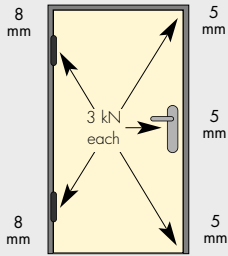
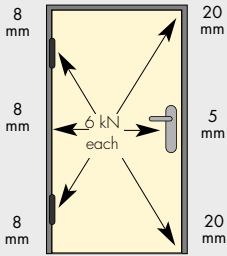
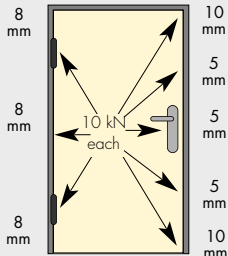
Based on the results of the static and dynamic tests the test institute decides whether a tool stress test has to be performed.

#### German Test Institutes :

PTE Rosenheim GmbH  
83026 Rosenheim Tel.: 08031-261-00

Institut für Holztechnologie Dresden GmbH  
01217 Dresden Tel.: 0351-4662-281

Mobile test facilities are available in some institutes, too.

Classes	ET 1/WK2	ET 2/WK3	ET 3/WK4
<b>Static stress</b> max. permissible excursion			
<b>Dynamic stress</b>	30 kg sandbag	30 kg sandbag	30 kg sandbag
<b>Tool stress</b>	without or only with very simple tools	additionally simple lever tools	mainly tools : wedge, lever and striking tools

#### Possible Constructions :

The burglar retardant quality is mainly achieved by the constructive frame elements.

Elements of special importance :

- wall frame material, construction
- door frame material, construction
- fittings construction
- skin material, thickness
- core full-size, pressure resistant

#### Use of SAUERLAND BOARDS :

Full-size cores of tubular or solid SAUERLAND board meet the requirements of the classes ET1 and ET2.