

# TESTING EQUIPMENT FOR GLASS IN BUILDING

## A. TEMPERED GLASS ( 1 ), HEAT STRENGTHENED GLASS ( 2 ), HEAT SOAK TESTED GLASS ( 3 ), CHEMICALLY TEMPERED GLASS ( 4 )

### TEST

Fragmentation  
Local bow  
Edge lift  
Surface pre-stress  
Mechanical strength  
Proxy

### TESTING EQUIPMENT

Spring loaded punch	1, 2, 3
RWG-D or RWG-EL	1, 2, 3, 4
RWG-EL	1,2
GASP	1, 2, 3
4-point pender	1, 2, 3, 4
GES	1, 2, 3
simple 4-point bender	1, 2, 3
DSR	4

## B. Laminated glass

### TEST

Resistance to high temperature

Resistance to humidity  
Mechanical strength

Claimed properties

- safety in use ( human body impact )
- manual attack ( blunt )
- manual attack ( axe )

### TESTING EQUIPMENT

Baking test oven  
Boiling kettle  
Humidity chamber ( with condensation )  
1030 g ball, 500x500 mm\_ support,  
dropping tower 4m

Double ring impactor  
4 kg ball, dropping tower up to 9m  
900x1100 mm\_ support  
Axe

## C. Coated glass

Large sample emissivity measurement

## D. INSULATED GLASS UNITS EN 1279-5 EN 1279-6 TESTS

Desiccant performance  
Sealant adhesion  
Sealant hardness  
Gas filled units Argon, Krypton %

### TESTING EQUIPMENT

Microwave /  $\Delta T$   
Tensile tester  
Shore A  
Gasglass

## E. GLASS PERFORMANCE

Solar properties  
LOW-E emissivity

Lamda 950 + ARTA  
Large piece FIR-meter