

Lounge Seating - Testing

The following is an overview of the key structural tests in the ANSI/BIFMA X5.4-2005 Lounge Seating test standard. It is intended to provide a general understanding of the tests for lounge seating.

Seating Durability - Cyclic

Description 125 lb load dropped 3" onto the seat 100,000 times per seat 165 lb force applied to both front corners of one seat 20,000 times

Seating Strength

Functional Load 225 lb load dropped 6" onto the seat one time per seat

Proof Load 300 lb load dropped 6" onto the seat one time per seat

Structural Durability - Horizontal Cyclic

Description 100 lb horizontal force applied to the side of the unit 100,000 times

Backrest Durability - Horizontal Cyclic

Description 75 lb per seat horizontal force simultaneously applied to the backrest 120,000 times

Backrest Durability - Vertical Cyclic

Description 200 lb per seat vertical force applied to the backrest 10,000 times

Backrest Strength - Horizontal

Functional Load 150 lb per seat horizontal force simultaneously applied to the backrest one time

Proof Load 250 lb per seat horizontal force simultaneously applied to the backrest one time

Backrest Strength - Vertical

Functional Load 200 lb per seat vertical force simultaneously applied to the backrest one time

Proof Load 300 lb per seat vertical force simultaneously applied to the backrest one time

Armrest Durability - Horizontal Cyclic

Description 100 lb horizontal force applied to the armrest 50,000 times

Armrest Durability - Vertical Cyclic

Description 200 lb vertical force applied to the armrest 10,000 times

Armrest Strength - Horizontal

Functional Load 150 lb horizontal force applied to the armrest one time

Proof Load 200 lb horizontal force applied to the armrest one time

Armrest Strength - Vertical

Functional Load 200 lb vertical force applied to the armrest one time

Proof Load 300 lb vertical force applied to the armrest one time

