

***MICOM IMPACT***➔

**New ANSI/BIFMA X5.4-2005 Standard  
Lounge Seating - Tests**

As you may know, BIFMA has been working on a new standard for lounge seating units for some time. The proposed new standard for lounge seating has been approved by ANSI.

This new version of the standard has more detailed and accurate test protocols. Three new tests were also added: a seating front load-ease and two tablet arm tests.

The scope of the standard was broadened to include non-freestanding lounge seating.

Please find below a test-by-test comparison between this new standard and the previous X5.4-1997 standard.

We trust this information will be of interest to you. Should you have any questions, please do not hesitate to contact us.

Regards,



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<b>ANSI/BIFMA X 5.4-2005 section #</b>		<b>ANSI/BIFMA X5.4-97 section #</b>		<b>Major difference(s)</b>
5	Backrest Strength Test – Horizontal - Static	5	Back Strength Test – Horizontal - Static	None
6	Backrest Strength Test – Vertical - Static	6	Back Strength Test – Vertical - Static	None
7	Backrest Durability Test – Horizontal - Cyclic	7	Back Durability Test – Horizontal - Cyclic	The load on each seating position is now 225 lb (was 100 lb) and the cycle rate is now between 10 and 30 cpm (was 5 to 40 cpm).
8	Backrest Durability Test – Vertical - Cyclic	8	Back Durability Test – Vertical - Cyclic	The cycle rate is now between 10 and 30 cpm (was 5 to 40 cpm).
9	Arm Strength Test – Horizontal - Static	9	Arm Strength Test – Horizontal - Static	The loading device was changed from “circular or square shaped contact surface of 2 in. <sup>2</sup> – 4 in <sup>2</sup> ” to a “loading device or strap, not greater than 1 in. in horizontal width”.
10	Arm Strength Test – Vertical - Static	10	Arm Strength Test – Vertical - Static	None
11	Arm Durability Test – Horizontal - Cyclic	11	Arm Durability Test – Horizontal - Static	The loading device was changed from “circular or square shaped contact surface of 2 in. <sup>2</sup> – 4 in <sup>2</sup> ” to a “loading device or strap, not greater than 1 in. in horizontal width”. The cycle rate is now between 10 and 30 cpm (was 5 to 40 cpm).
12	Arm Durability Test – Vertical - Cyclic	12	Arm Durability Test – Vertical - Cyclic	The cycle rate is now between 10 and 30 cpm (was 5 to 40 cpm).
13	Seating Durability Test –Cyclic (Impact Test)	13	Seating Impact Test – Cyclic	Height of free fall raised from 2” above the “at rest” position to 3” above the “at rest” position. The cycle rate is now between 10 and 30 cpm (was 5 to 40 cpm).

13	Seating Durability Test –Cyclic (Front Load-Ease Test)		●●●	New test. 165 lbf in a 8” diameter bag, 40 000 cycles total, 10 to 30 cpm; off-center on seating with defined seating areas, in the center of unit without defined seating areas.
14	Drop Test - Dynamic	14	Drop Test - Dynamic	None
15	Structural Durability Test - Cyclic	15	Structural Durability Test - Cyclic	None
16	Base Test - Static	16	Base Test - Static	None
17	Leg Strength Test – Front and Side Application	17	Leg Strength Test – Front and Side Application	The functional load is now always 75 lbf, regardless of the weight of the unit (was 75 lbf or weight of the unit, whichever is greater).
18	Unit Drop Test - Dynamic	18	Unit Drop Test - Dynamic	Two drops of 12” instead of the previous 3 times 12”, 1 time 24”. No more proof load.
19.1	Caster/Unit Base Durability Test for Pedestal Base Units	19	Unit Base & Caster Test – Cyclic	Weight of 225 lb instead of 300 lb. The distinction between soft and hard casters is removed. All casters to do 2000 cycles with obstacles and 98 000 cycles on smooth surface. Consistent with X5.1-2002, test #17.
19.2	Caster/Unit Frame Durability Test for Units with Legs		●●●	Same as 19.1, but now applies also to units with legs. Consistent with X5.1-2002, test #17.
20	Swivel Test - Cyclic	20	Swivel Test - Cyclic	None
21	Tilt Mechanism Test - Cyclic	21	Tilt Mechanism Test - Cyclic	The cycle rate is now between 10 and 30 cpm (was 5 to 40 cpm).
22.3	Rear stability	22.3	Rear stability	Force reduced (30 lbf times (number of position/2); was 30 lbf times number of positions)
22.4	Front stability	22.4	Front stability	None
23	Tablet Arm Load Ease Test – Cyclic		●●●	New test. Identical to X5.1-2002, test #23. 77 lb on 8”, 100 000 cycles at 14±6 cpm.
24	Tablet Arm Static Load Test		●●●	New test. Identical to X5.1-2002, test #22. 150 lb on 8” for 5 minutes.