



### Comparison of Consumer Standard ANSI B71.1 and Commercial Standard ANSI B71.4

Issue	B71.1 Consumer	B71.4 Commercial
Scope	Machines used for the personal use of a homeowner around the house	Machines used by hired operators
Scope	Rotary mowers	Rotary, reel and flail mowers and other turf care equipment
Blade stopping time	5 seconds maximum	7 seconds maximum
Service brake durability	5000 cycle test	No requirement
Longitudinal stability	30° No separate consideration given for ROPS	30° 25° for a Z with ROPS
Lateral stability	25° measured at rollover	20° measured by pulling out test strip
Parking brake on 17° slope	No creep allowed	Allows 24" creep per hour
Sudden traction control test	Maximum 10° lift-off	No requirement
Dynamic turn stability test	Maximum 5° lift-off	No requirement
On-product safety labels	Focus on children and bystanders	Focus on training
Operator's manuals	Focus on children	Focus on training
Removal of guards	Requires tools	No-tools removal is allowed
Hot surfaces	Prevent inadvertent contact with hot surfaces during normal starting, mounting and operation of the machine.	Specific temperature limits are given; surfaces > 90 C (non-metallic) or >80 C (metallic) while operating at 21 C ambient temperature. Probe test determines contact potential.
Foot probe	Probe remains in contact with the floor	Probe is lifted off the floor
Mower blade tesing	Impact test (stake), structural integrity (1/2" ball) and thrown object (1/4" ball) testing is specified.	Mowers with large blades (30.5" long and 0.312" thick or greater) require special testing for impact, structural integrity and thrown objects. Testing for smaller blades is same as B71.1.