



Stability/Overload Requirements of Different Countries for Toys Testing

	Australia/New Zealand/Japan AS/NZS ISO 8124-1:2019/ST2016	China GB6675.2-20148	Europe EN 71-1:2014+A1:2018	USA ASTM F963 - 17
Scope: Sideways stability	<ul style="list-style-type: none"> Ride-on toys of spherical, cylindrical or other shape that do not normally have a stable base are not covered by these requirements. 	<ul style="list-style-type: none"> Toys intended for use by children aged 60 months or less: ride-on toys, with three or more load bearing wheels, such as wagons; ride-on, action-type toys such as hobby horses, rocking toys (for example, horses, cars); and toy seats. It is not applicable for toys with spherical, cylindrical or other shape that do not normally have a stable base. 	<p>Does not apply to:</p> <ul style="list-style-type: none"> Toys with two aligned wheels. Wheels spaced ≤ 150 mm (5.9") apart are considered to be a single wheel. Roller skates. Inline skates and toy skateboards Toys do not have a stable base Toys intended for 36 months and up where the feet of the child can provide sideways stability. 	<ul style="list-style-type: none"> Toys intended for use by children aged 60 months or less: ride-on toys, with three or more load bearing wheels, such as wagons; ride-on, action-type toys such as hobby horses, rocking toys (for example, horses, cars); and toy seats. <p>Does not apply to:</p> <ul style="list-style-type: none"> toys with spherical, cylindrical or other shape that do not normally have a stable base. <p>Toys where the height of the seat from ground $\leq 1/3$ of height indicated in Table 3 at the lowest age if the age range for which the toy is intended.</p>
Seat heights for sideways stability exemptions.	< 27 cm and where the feet and/or legs of the child are unrestricted in their sideways motion and thus are available for stabilization.		No exemption for seat height.	1 years $\geq 9"$ 2 years $\geq 9.7"$ 3 years $\geq 11"$ 4 years $\geq 12.3"$ 5 years $\geq 13.3"$ <i>Table 3 in ASTM F963-17</i>
Sideways test	<ul style="list-style-type: none"> Legs unrestricted :10° incline Legs restricted: 15° incline 25 kg (≤ 36 months) 50 kg (> 36 months) 		<ul style="list-style-type: none"> 10° incline at 25 kg (< 36 mths) or 50 kg (≥ 36 mths) load Load the toy in the most onerous position with a mass on its standing or sitting surface. 	<ul style="list-style-type: none"> Legs unrestricted :10° incline Legs restricted: 15° incline Apply to the seat a static load equal to the weight indicated in Table 7 at the highest age of the age range for which the ride-on toy or toy seat is intended, but not exceeding 60 months.
Fore and aft stability	Ride-on toys where the rider cannot easily use his/her legs for stabilization, shall not tip forward and backward.		Does not apply to toys with two aligned wheels. Wheels spaced ≤ 150 mm (5.9") apart are considered to be a single wheel	<ul style="list-style-type: none"> 45° to the left and to the right of the forward position All ride-on toys or toy seats falling within the scope of 4.15 shall not tip forward and backward
Overload	≤ 36 mths: 35 ± 0.3 kg ≥ 36 mths and ≤ 96 mths: 80 ± 1.0 kg > 96 mths: 140 ± 2.0 kg		None	<ul style="list-style-type: none"> Load 3 times the weight of 95th percentile children or the manufacturer's stated weight capacity



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Dynamic strength test	<ul style="list-style-type: none">- 25 kg (< 36 mths) or 50 kg (\geq 36 mths) load- Load the toy for 5 min in the most onerous position with the appropriate mass on its standing or sitting surface.- Secure the load to the toy in a position corresponding to the normal use of the toy.- Drive the toy three times at a speed of (2 ± 0.2) m/s into a non-resilient step with a height of 50 mm.- If the toy is intended to bear the mass of more than one child at a time, test each sitting or standing area simultaneously.- Determine whether the toy continues to conform to the relevant requirements of Clause 4 (requirements).	--	<ul style="list-style-type: none">- 25 kg (< 36 mths) or 50 kg (\geq 36 mths) load.- Each articulated arm (2 ± 0.02) kg.- Cushion including sand and straps (0.5 ± 0.01) kg.- Drive at 2 m/s into a non-resilient step 50 mm high	<ul style="list-style-type: none">- Load the weight, drive the toy three times at a speed of 6.6 ft/s (2 m/s) into non-resilient step with a height of 2 in. (50 mm)- If the toy is intended to bear the mass of more than one child at a time, test each sitting or standing area simultaneously.- Determine whether the toy continues to conform to the relevant requirements of this specification.