

**UN R58 - RUPD requirements – comparison of proposed requirements of doc. GRSG/2014/11 and GRSG/2014/18**

Ref. paragraphs of UN-Reg. No. 58		OICA (GRSG/2014/11) Vehicle Categories		Germany (GRSG/2014/18) Vehicle Categories	
		N <sub>1</sub> , N <sub>2</sub> , O <sub>1</sub> , O <sub>2</sub>	N <sub>3</sub> , O <sub>3</sub> , O <sub>4</sub> <sup>1)</sup>	M, N <sub>1</sub> , N <sub>2</sub> , O <sub>1</sub> , O <sub>2</sub> , G, and veh. with platform lift	N <sub>3</sub> , O <sub>3</sub> , O <sub>4</sub>
7.1. / 25.4.	Height of cross member	≥ 100 mm	≥ 120 mm	≥ 100 mm	≥ 120 mm
7.4.2. / 25.8.2.	Effective Surface	≥ 350 cm <sup>2</sup>	≥ 420 cm <sup>2</sup> 6)	≥ 350 cm <sup>2</sup>	≥ 420 cm <sup>2</sup>
16.3. / 25.6.	Horizontal distance	≤ 400 mm	≤ 400 mm	≤ 300 mm (incl. N3), bef. defo. ≤ 400 mm (incl. N3), aft. defo. Determination by excl. of resilient buffers (max. 50 mm)	≤ 200 mm (O <sub>3</sub> , O <sub>4</sub> ), bef. defo. ≤ 300 mm (O <sub>3</sub> , O <sub>4</sub> ), aft. defo. Determination by excl. of resilient buffers (max. 50 mm)
16.1. / 25.1.	Ground clearance	≤ 550 mm	≤ 450 mm <sup>2)</sup> ≤ [500/550] mm <sup>3)</sup> ≤ 550 mm <sup>5)</sup>	≤ 550 mm (M, N <sub>1</sub> , N <sub>2</sub> , O <sub>1</sub> , O <sub>2</sub> ) ≤ 10°, 20°, 25° (cat. G)	≤ 450 mm (autom. levelling) ≤ 500 mm (no autom. lev.) ≤ 550 mm (for dep. angle 8°)
16.1. / Annex 5, 3.1.	Test force application	≤ 600 mm	≤ 510 mm <sup>2)</sup> ≤ [560/610] mm <sup>3)</sup> ≤ 610 mm <sup>5)</sup>	≤ 600 mm	At horizontal center line of crossbeam [≤ 510 mm, ≤ 560 mm]
Annex 5, 3.1.1.	Test force	100 kN or 50 % max. gross weight <sup>4)</sup>	180 kN or 85 % max. gross weight <sup>4)</sup>	180 kN or 85 % max. gross weight <sup>4)</sup> (total force levels may be red. to 80 % for veh. with tipp.-bod. or platf.)	180 kN or 85 % max. gross weight <sup>4)</sup> (total force levels may be red. to 80 % for veh. with tipp.-bod. or platf.)
Annex 5, 3.1.2.	Test force	50 kN or 25 % max. gross weight <sup>4)</sup>	100 kN or 50 % max. gross weight <sup>4)</sup>	100 kN or 50 % max. gross weight <sup>4)</sup> (total force levels may be red. to 80 % for veh. with tipp.-bod. or platf.)	100 kN or 50 % max. gross weight <sup>4)</sup> (total force levels may be red. to 80 % for veh. with tipp.-bod. or platf.)
Annex 5, 3.1.3.	Test force	50 kN or 25 % max. gross weight <sup>4)</sup>	100 kN or 50 % max. gross weight <sup>4)</sup>	100 kN or 50 % max. gross weight <sup>4)</sup> (total force levels may be red. to 80 % for veh. with tipp.-bod. or platf.)	100 kN or 50 % max. gross weight <sup>4)</sup> (total force levels may be red. to 80 % for veh. with tipp.-bod. or platf.)

- 1) Vehicles with rearward tipping bodies or special purpose vehicles of category N<sub>3</sub> or vehicles of category N<sub>3</sub>G are considered the same values as for N<sub>1</sub>, and N<sub>2</sub> vehicles.
- 2) Vehicles with hydropneumatic, hydraulic or pneumatic spring.
- 3) Vehicles with other than hydropneumatic, hydraulic or pneumatic spring at the rear axle.
- 4) Whichever is the lower value.
- 5) On vehicles with a departure angle more than 8° according ISO 612:1978.
- 6) According items 7.4.2 or 25.8.2, it is possible to reduce the effective surface to not less than 350 cm<sup>2</sup>