

DELU Air Cushion System 을 사용하기 위한 바닥조건(원문)

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**\* Demands on the covered floor surface and the covering material**

	<b>Demands</b>	<b>Annotations</b>
-Material	Smooth, polished and sealed concrete floor or smooth synthetic-resin coated floor (probably shock resistant through additional glass fibre layer)	The surface of the floor can affect the air-consumption and wear due to friction between the air-cushion bellow and the floor.n.
-Maximum surface pressure wheel/floor	$P < 25 \text{ N/mm}^2$	It is not allowed to detect any indentations on the floor-coating..
- Minimum of static friction shoe sole/floor	$\mu = 0,4$ (trocken/dry)	According to VW-production facility specifications
- Even- and waveness	According to DIN 18202, part 5, line 4	The slope affects directly the necessary towing forces
- Surface roughness	Rauhigkeit/roughness Ra: 6,3 $\mu\text{m}$ - 12,5 $\mu\text{m}$	Güteklasse 2, Rauheitsgrößen nach DIN 4768, Teil 1, Oberfläche glatt wie Papier
- Joints, cracks and steps	None	Airtight Finish
- Dehnungsfugen	Airtight, infinitely finish gap form: V-form (angle 90°)	-Material based on Polyurethane, shore-hardness circa 80, with very high resilience capacity, without volume expansion during compression.

**\* Evenness**

The friction-coefficient of an active air-cushion is nearly zero. Therefore even the smallest slope causes a downward gliding of the load. This could create a dangerous situation, because especially heavy loads could get uncontrollable.

The following table shows possible tolerances for the evenness of the floor.

Kind of execution	Evenness tolerance in [mm] depending on the distance between the measuring points				
	0,1m	1m	4m	10m	15m
Standard execution according DIN 18202 part 5, line 3	2	4	10	12	15
Enhanced exactness according DIN 18202 part 5, line 4	1	3	9	12	15
Out levelled surface	1	3	6	6	6
Out levelled surface with enhanced exactness	1	1	3	5	5