

COST SAVINGS WITH ANTI-SLIP MATS

Example (according to VDI 2700)

For a load of 7500 kg standing freely on the loading platform (chipboard floor, coefficient of sliding friction approx. μ 0.3) at 10 truckloads per work day and 240 work days per year.

For a pre-tension force of 500 daN per lashing strap, **14 lashing straps** are required when no anti-slip mats are used.

The use of anti-slip mats doubles the coefficient of sliding friction to μ 0.6 and reduces the number of straps required to **3**.

Comparative calculations

Lashing strap: 10€/pcs.

Edge protectors brackets: 1€/pcs.

Salary costs: 35€/h. = 0,58€/min.

Pre-tensioning/belt = (x · 2 min.) · 0,58€

Anti-slip mats*: 25€ (ca. 4 transports = 6,25€)

Laying out the anti-slip mat: 1 min. · 0,58€

New lashing straps/edge protection brackets are expected every six months, therefore **28 lashing straps/56 edge protection brackets** are required without anti-slip mats and **6 lashing straps/12 edge protection brackets** are required with anti-slip mats.

*Depending on the degree of wear, the replacement can also take place sooner or later as long as the sliding friction coefficient of μ 0.6 is not adversely affected.

Savings

Savings by using
Anti-slip mats:
approx. 16.800€ per year

Without Anti-Slip Mats

Costs lashing straps	(28 · 10€) : 240 days	1,17€
Costs edge protection brackets	(56 · 1€) : 240 days	0,23€
Salary costs while pre-tensioning the lashing straps	(14 pcs. · 2 Min) · 0,58€	16,24€
Costs per truckload		17,64€
10 truckload per day		17,64€ · 10 = 176,40€
Approx. 240 days per year		240 · 176,40€ = 42.336€
		per year

With Anti-Slip Mats

Costs lashing straps	(6 · 10€) : 240 days	0,25€
Costs edge protectors brackets	(12 · 1€) : 240 days	0,05€
Salary costs while tighten the lashing straps	(3 pcs. · 2 min) · 0,58€	3,48€
Anti-slip mats	25€/4 transports	6,25€
Salary costs while positioning the anti-slip mats	1 min. · 0,58€	0,58€
Costs per truckload		10,61€
10 truckload per day		10,61€ · 10 = 106,10€
Approx. 240 days per year		240 · 106,10€ = 25.464€
		per year