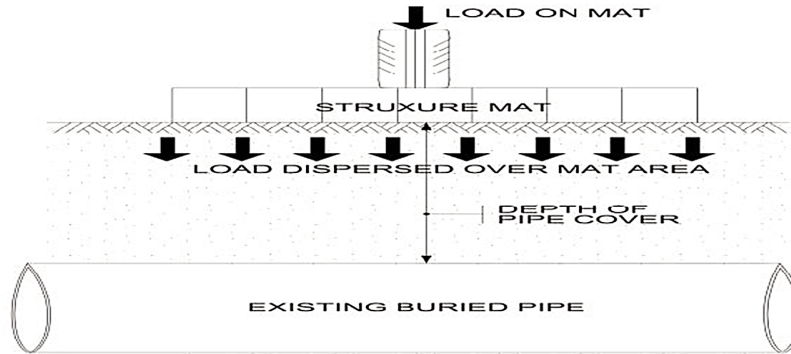


STRUXURE®

CONSTRUCTION MATS



STRUXURE® Construction Mats can be used for **SHALLOW DEPTH PIPE PROTECTION**

STRUXURE® Construction Mats can protect and preserve aged, existing buried infrastructure or utility without the constant monitoring and replacing of wooden mats that quickly degrade in wet, well trafficked areas.

- Effectively spread a tire or tread load over the much larger mat area
- STRUXURE® Construction Mats reduce pressure exerted per square foot of ground
- Less load transferred to the buried infrastructure - less likely it will become overstressed
- Wet or dry, STRUXURE® Construction Mats remain inert and retain their structural integrity
- Will not absorb or release chemicals and they contain no toxic chemicals

HEIGHT COVER	Load applied to bare ground (no mat)			Load applied to 7-Piece STRUXURE® Mat		
	40,000#	80,000#	120,000#	40,000#	80,000#	120,000#
2 ft	5.56	7.24	10.61	3.51	3.66	3.71
3 ft	4.17	5.97	9.58	1.56	1.63	1.64
4 ft	2.78	4.66	8.44	0.88	0.91	0.93
5 ft	1.74	3.60	7.30	0.56	0.59	0.60
6 ft	1.39	3.03	6.32	0.39	0.40	0.41
7 ft	1.22	2.69	5.64	Negligible	Negligible	Negligible
8 ft	0.69	2.21	4.85	Negligible	Negligible	Negligible
10 ft	Negligible	1.35	4.06	Negligible	Negligible	Negligible
12 ft	Negligible	1.05	3.17	Negligible	Negligible	Negligible

Approximate loads transferred to buried pipe, lb/in², due to construction point loading. NOTE: calculations above assume STRUXURE mat point load rests directly above a buried pipe. The load rests on 24" treads on a 7 piece mat (49" wide) and with a dry soil with a bearing capacity of 2 tons/SF - your site conditions will vary from the results shown here. Pressure on pipe approximated with Boussinesq's equation using ground pressure response calculated by Mat Soil Bearing Capacity method.

Steel Pipe Characteristics	Allowable Live Load Surcharge Pressure
Pre 1941 Pipelines	3.5 psi
Steel Pipes smaller than 12" in diameter	7.0 psi
Steel Pipes larger than 12" in diameter	10.5 psi

Note that the above chart is a guide for reference only. The actual response and the suitability of a construction mat should always be checked by a qualified professional when in doubt. As a general rule, with existing buried steel pipe of unknown characteristics and bedding, ground pressures due to live loading should be limited to the above pressures.