

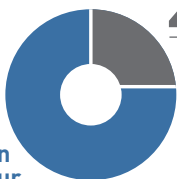
Flexible Grids Help to Reduce Construction Costs

Example: Building of a Geosynthetic Reinforced Soil (GRS)

	Flexible Grids	Rigid Grids
Unrolling	No loading necessary 	Loading with weight or staff necessary 
Pre-cut	Easily with knife 	Electric cutting device 
Handling	No sharp edges 	Sharp cutting edges 
Preparation on-site	Foldable pre-cut 	Pre-cut remains in roll format 
Transport to installation point	Space-saving on palettes 	Space-consuming as rolls 
Shaping at installation	Simple installation and compaction Good alignment to front element 	Difficult installation and compaction Poor alignment to front element 
Installation rate	Big roll dimensions for minor loss due to offcut and overlapping 	Smaller roll dimensions with more loss due to offcut and overlapping 
=	Quick and simple installation save costs	30-50 % more time-intensive installation*

Break down of project costs (Example: GRS)

75 %
Construction and men hour costs*



25 % Material costs*

17% Geogrids
8% Facing



20 % longer construction time
=
15 % higher total costs



* "Advice on the pricing and planning of earthworks involving the use of geosynthetic reinforcement published extract from": Bautechnik, Heft 9/2007 Verlag Ernst & Sohn, Berlin