




# >> Pass a Proof Roll

Subgrade Improvement Method						
Visual Subgrade Condition	Estimated CBR	Over-Excavation	BX Geogrid (33kN/m)	H-Series® HX145 Geogrid	H-Series HX165 Geogrid	InterAx® NX850 Geogrid
		Estimated aggregate thickness to pass a proof roll with 1" deformation				
3" Deep Footprint 	0.5% CBR	48"	36"	32"	28"	24" (20" with two layers)
1" Deep Footprint 	1% CBR	36"	24"	20"	16"	12"
1" Tire Rut from Pick-Up Truck 	2% CBR	24"	16"	14"	10"	4-6"

The conditions shown on this card are considered typical and should apply to many field situations. However special considerations or construction techniques may be necessary in the presence of highly moisture sensitive soil such as silts or organics, or saturated subgrade conditions. CBR is estimated based on observed subgrade condition. Please contact Tensar (800-TENSAR-1) or your local Tensar distributor for site specific recommendations. Well graded, angular crushed stone with 5%-15% fines is recommended for best results.

## Geogrids provide cost and time savings in these scenarios:

1. Challenging subgrade conditions, such as **pumping, rutting or rolling**.
2. Proposed **aggregate thicker than 12"** or asphalt thicker than 3".
3. Using a **low quality or recycled aggregate**.
4. Used as an **alternative to chemical stabilization**.
5. **Overexcavating** and replacement.
6. Shallow underground **utilities**.

## >> **Failing a proof roll?**

Compare options and calculate savings instantly with our free Tensar+ software. Scan the QR code to get started. Or visit [TensarCorp.com/support](https://www.tensarcorp.com/support) to talk with our team.



## Cost Conversion Card

Installed Aggregate Cost (\$/SY)				
Completed Aggregate Thickness (inches)		\$20/ton Installed	\$30/ton Installed	\$40/ton Installed
	1"	\$1	\$1.50	\$2
	6"	\$6	\$9	\$12
	12"	\$12	\$18	\$24

Assumed unit weight of aggregate: 133 pcf

**HOW TO USE THIS CHART:** If you have 12" of Aggregate and your installed cost is \$30/ton, then a 10,000 square yard project will cost \$180,000.

**WHY IT MATTERS:** If using InterAx geogrid reduced your aggregate requirement from 12" to 6", your cost savings would be \$90,000, less the cost of the geogrid.