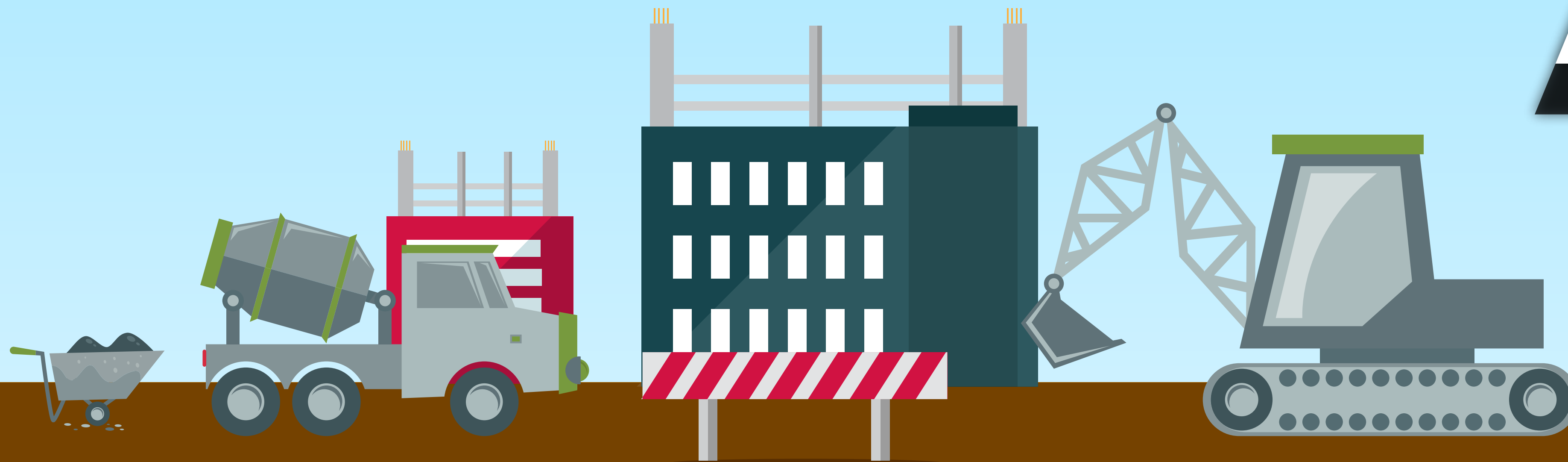




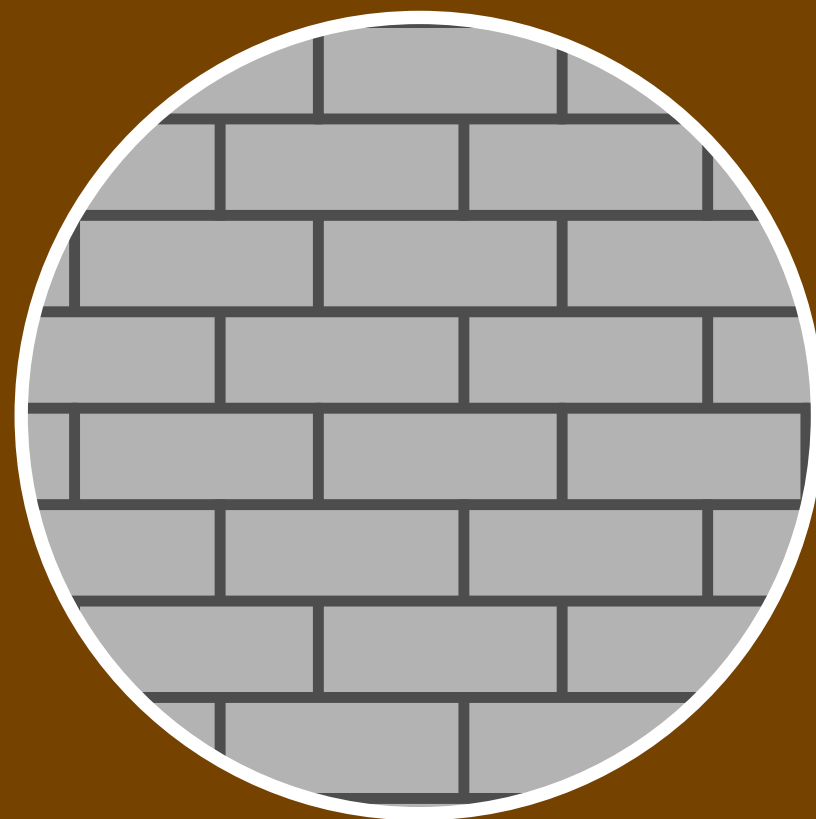
GEOSYNTHETIC
SYSTEMS

USING GABION BASKETS
AND RENO MATTRESSES

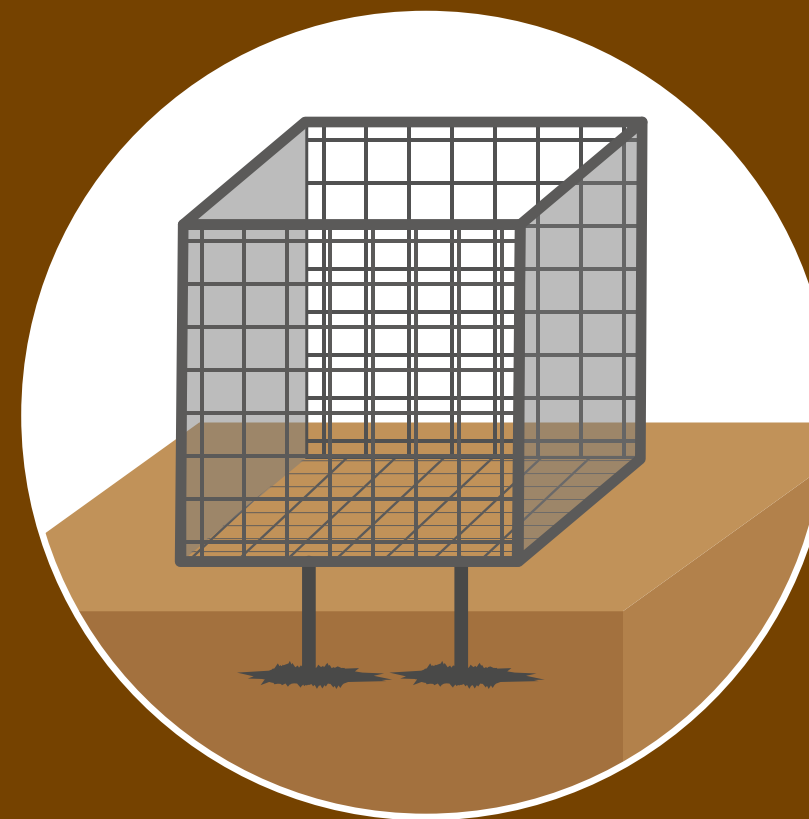
ON GREEN CONSTRUCTION PROJECTS



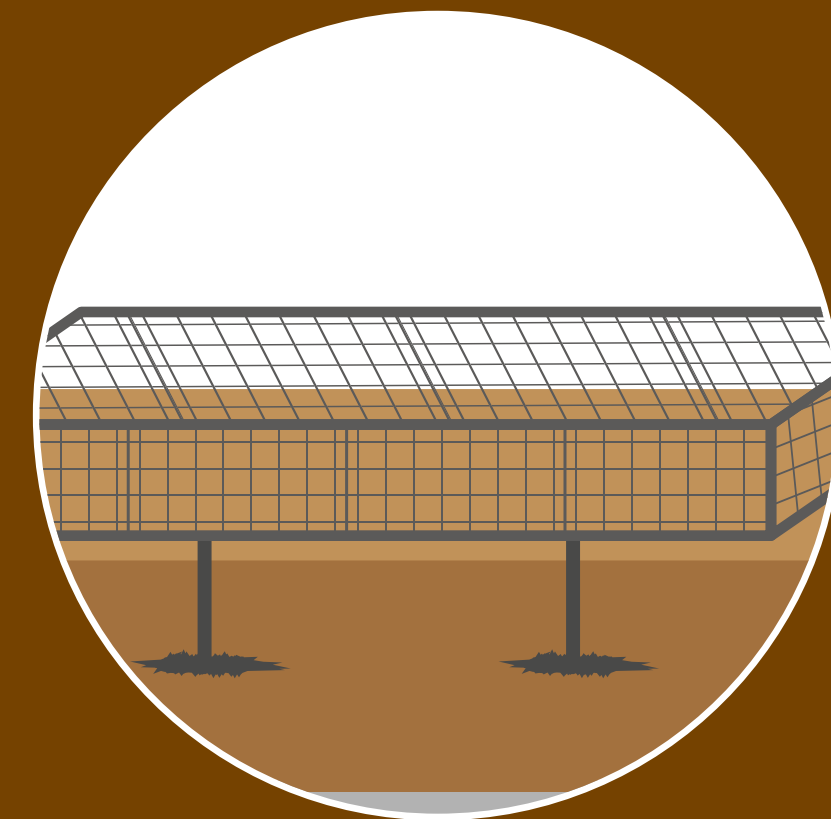
Construction Projects



**Manufactured and
Concrete walls**

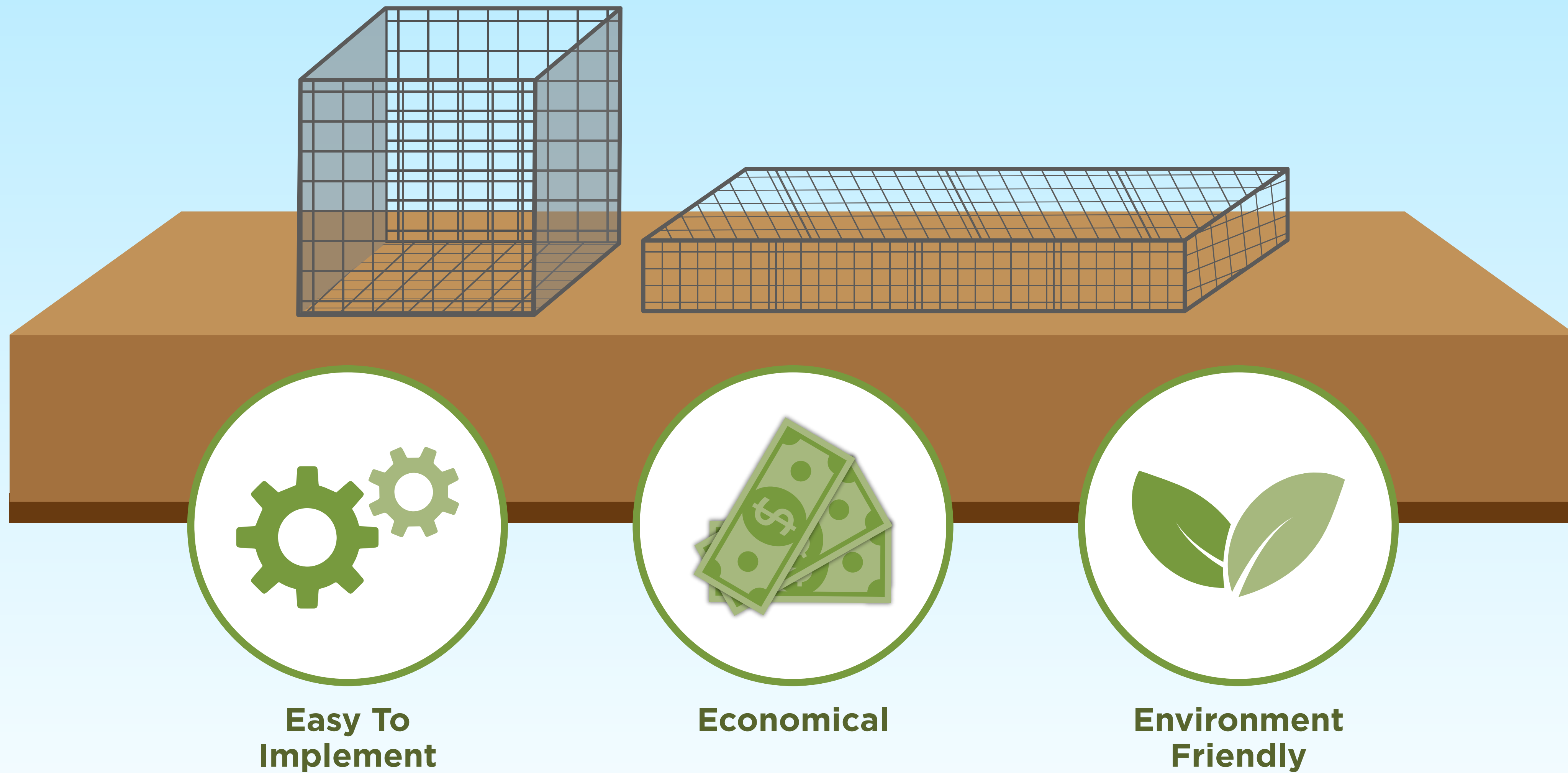


Gabion Baskets

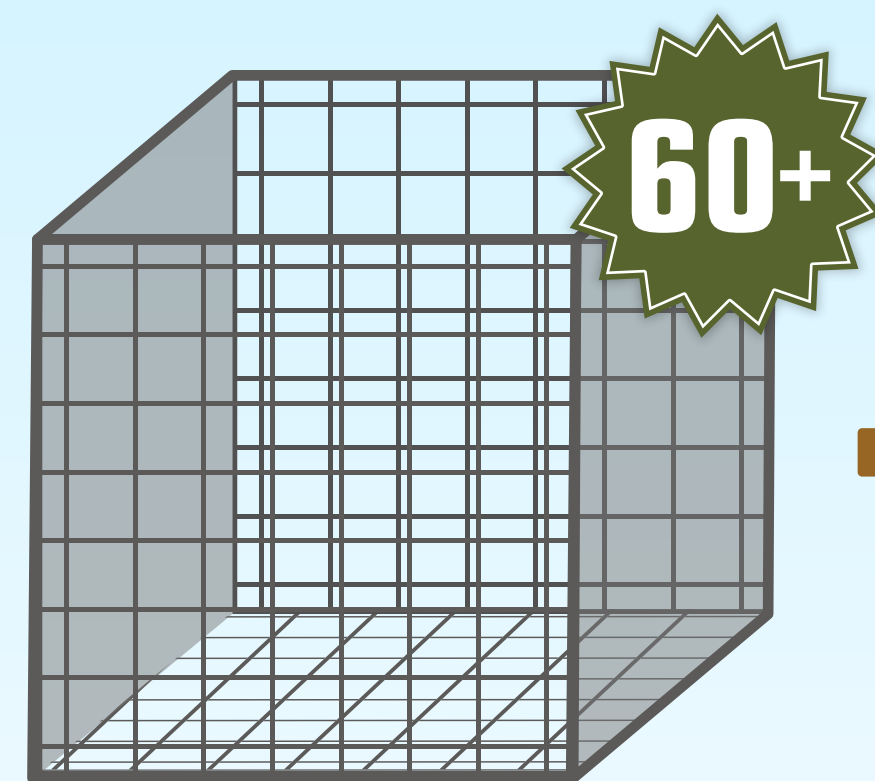
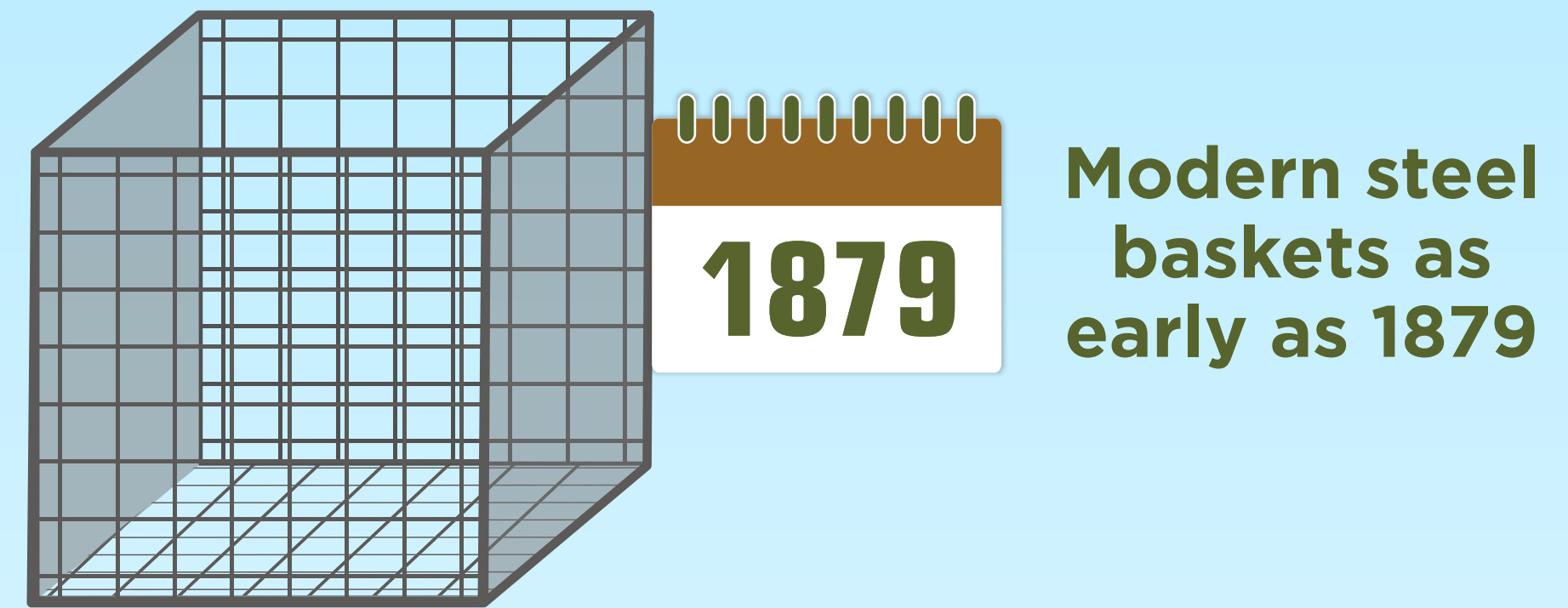
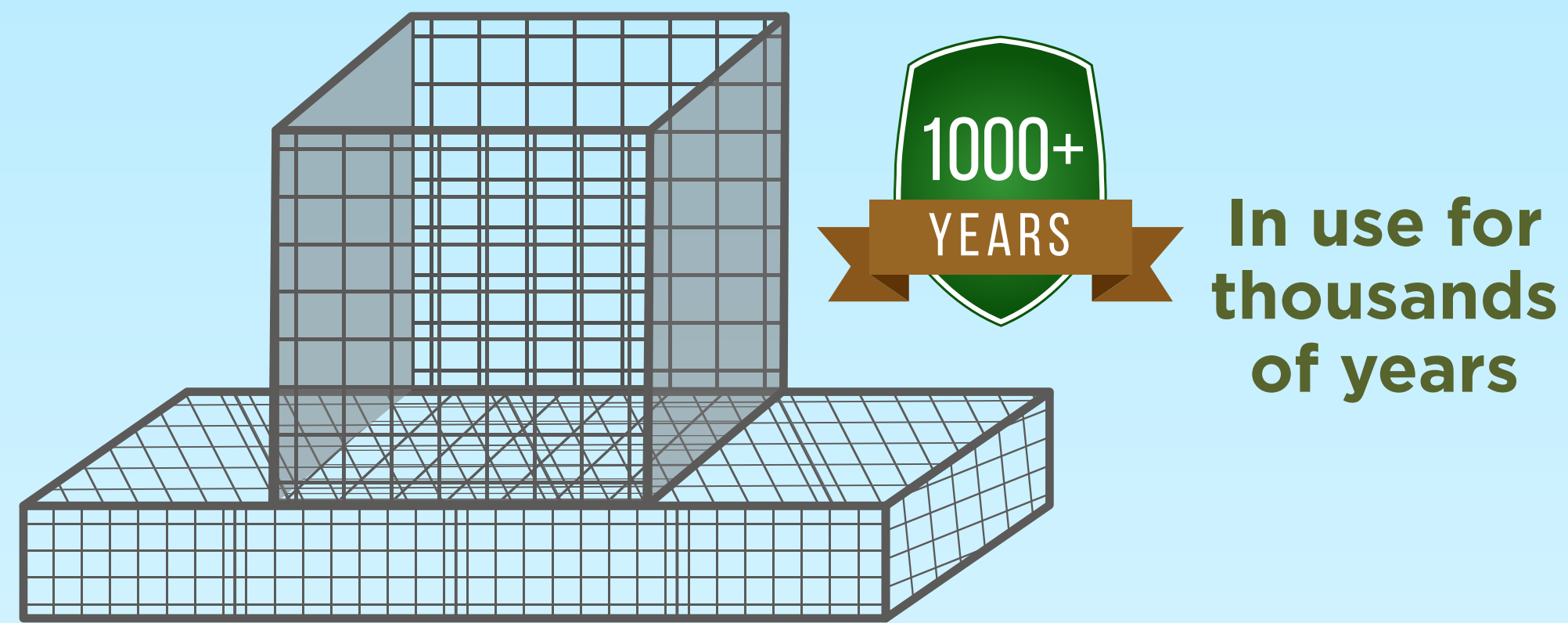


Reno Mattresses

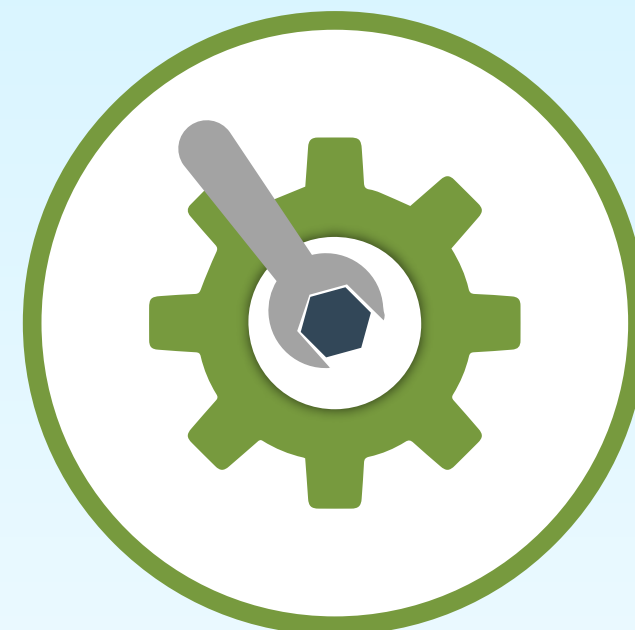
On construction projects, manufactured walls, concrete walls, gabion baskets, and reno mattresses, keep the landscape from shifting and settling or washing or blowing away.



Gabion baskets and Reno mattresses are easy to implement, economical, and environmentally friendly.



Last upwards
of 60 years



Little to no
maintenance

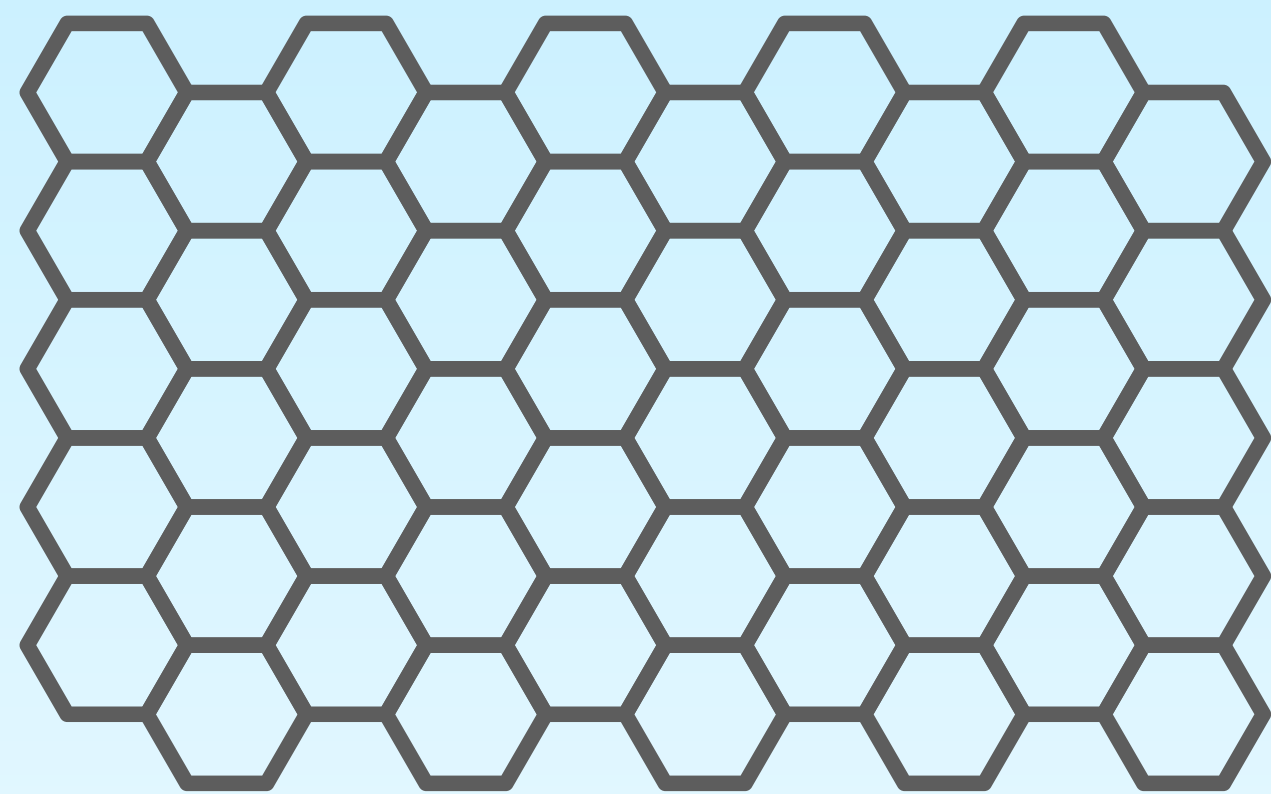


Quality
materials

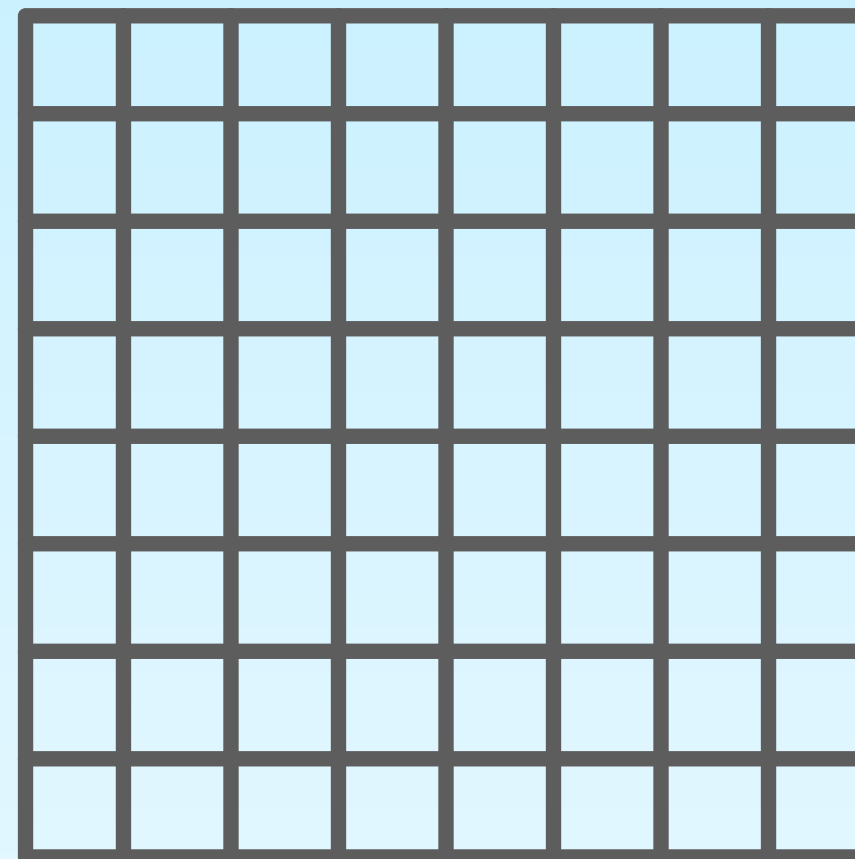


Project
planning

Gabion baskets and reno mattresses have been in use for thousands of years, modern steel baskets as early as 1879. Today's galvanized gabion baskets and reno mattresses are proven to last upwards of 60 years, with little to no maintenance, but such longevity requires quality materials and thoughtful project planning.



Hexagonal double-twist woven

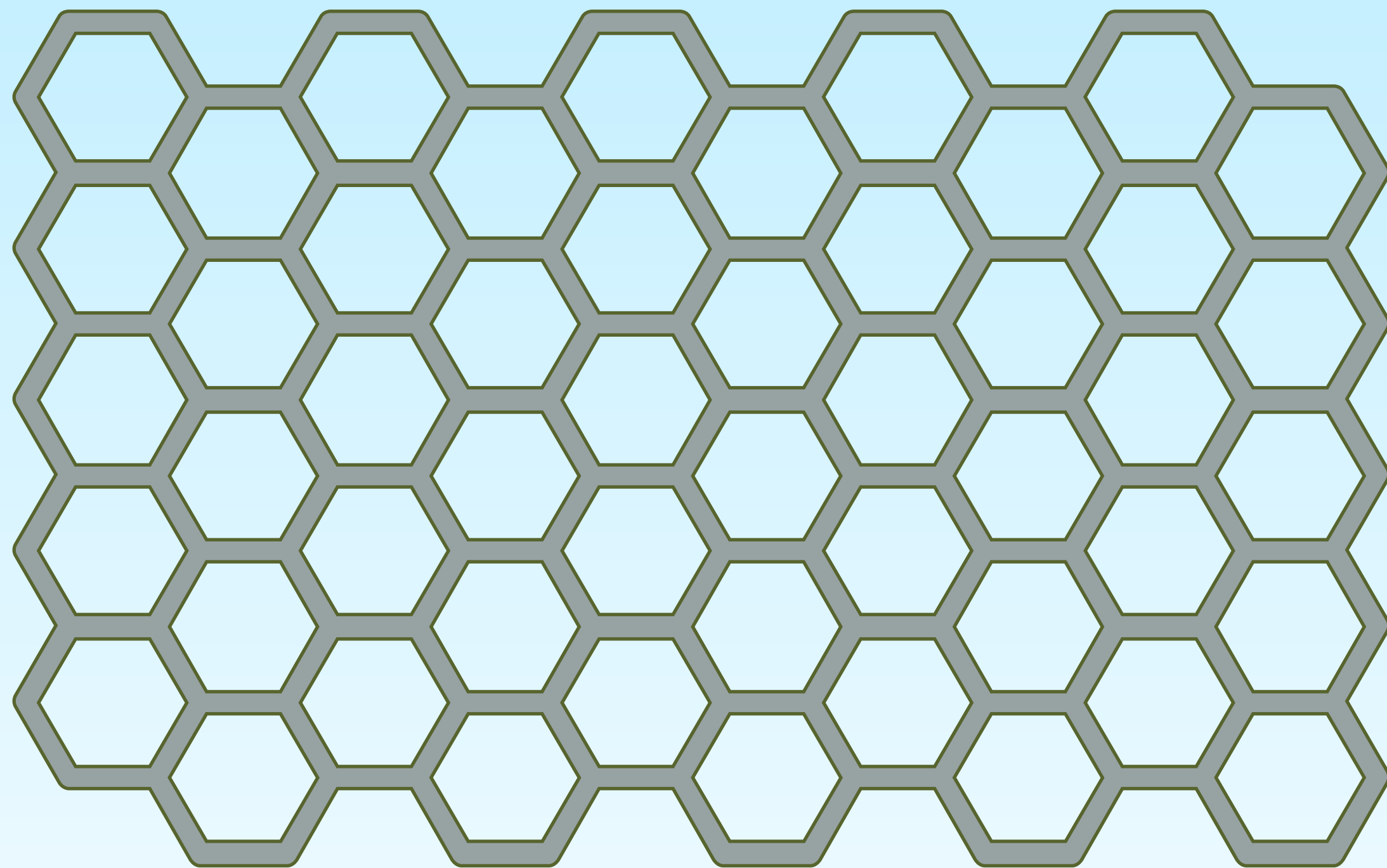


Grid-welded construction



3 or 4mm Galvanized wire

Depending on project requirements, Geosynthetic Systems' may suggest hexagonal double-twist woven or stronger and more-durable grid-welded construction, of basic 3-millimeter or stronger 4-millimeter galvanized wire.



3.7mm PVC-Coated

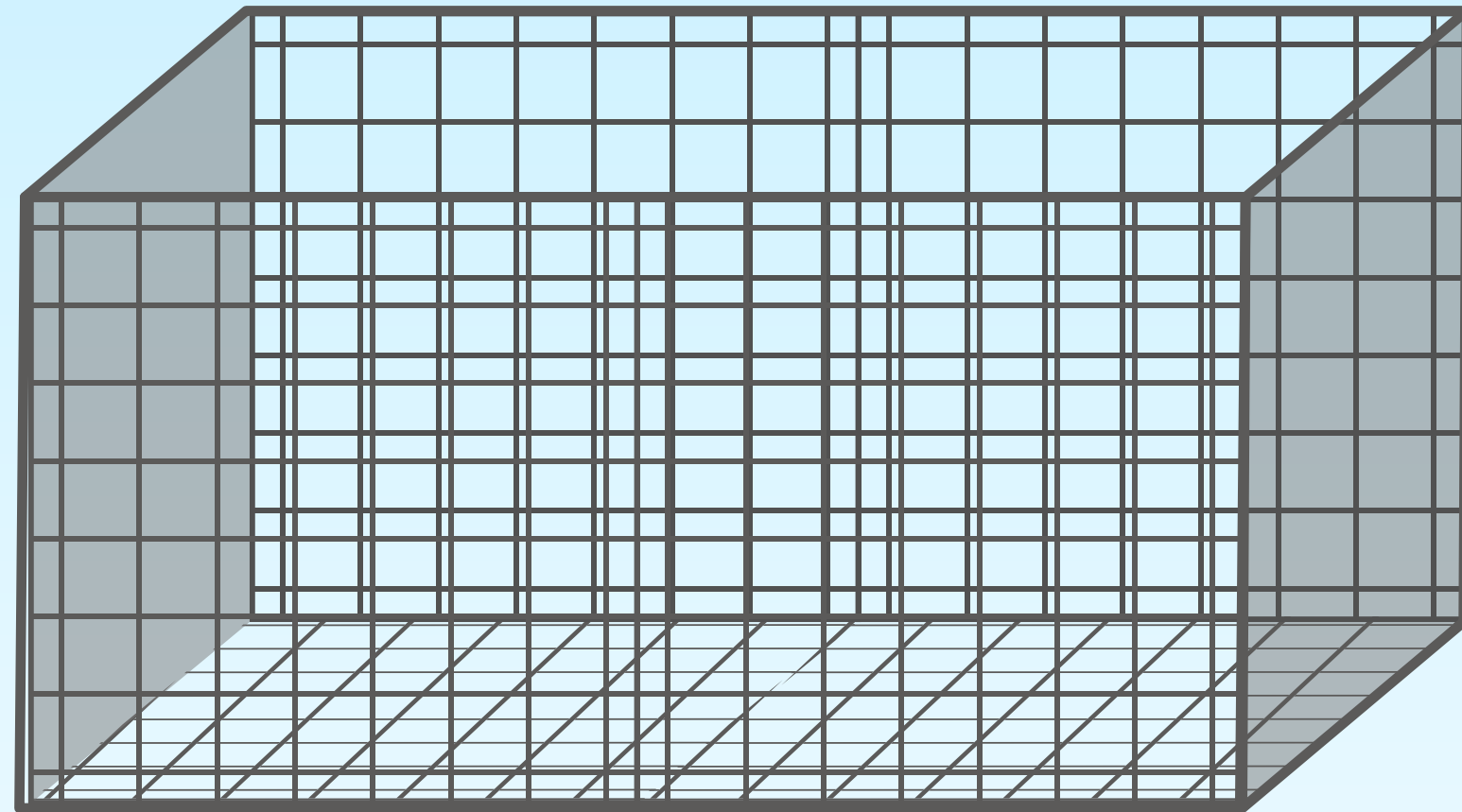
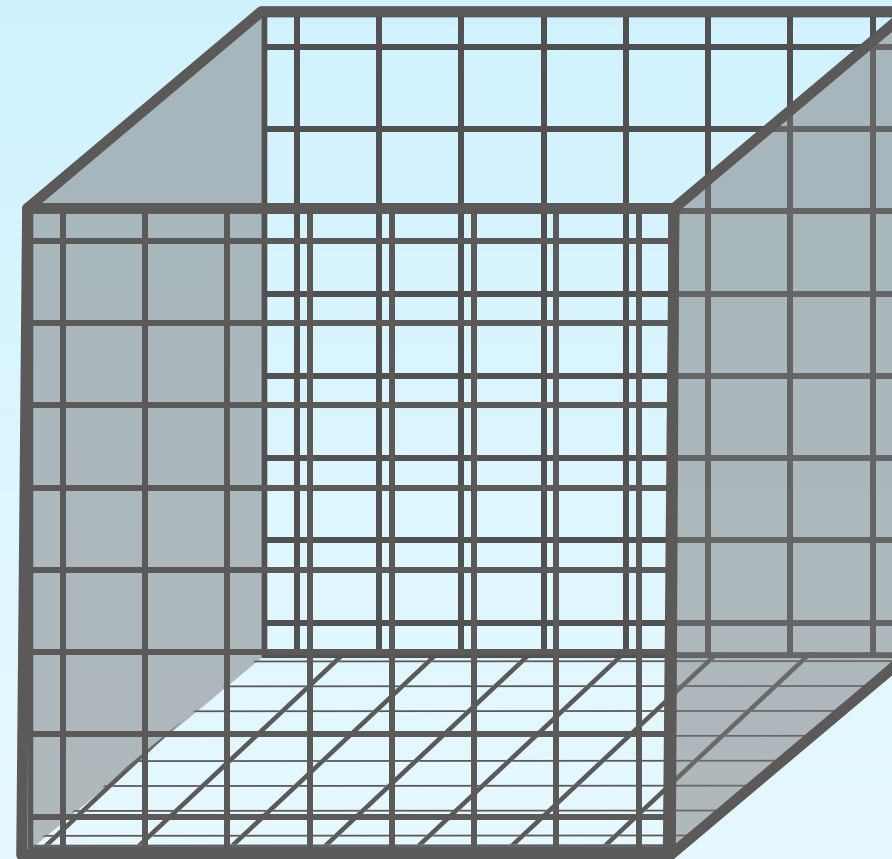
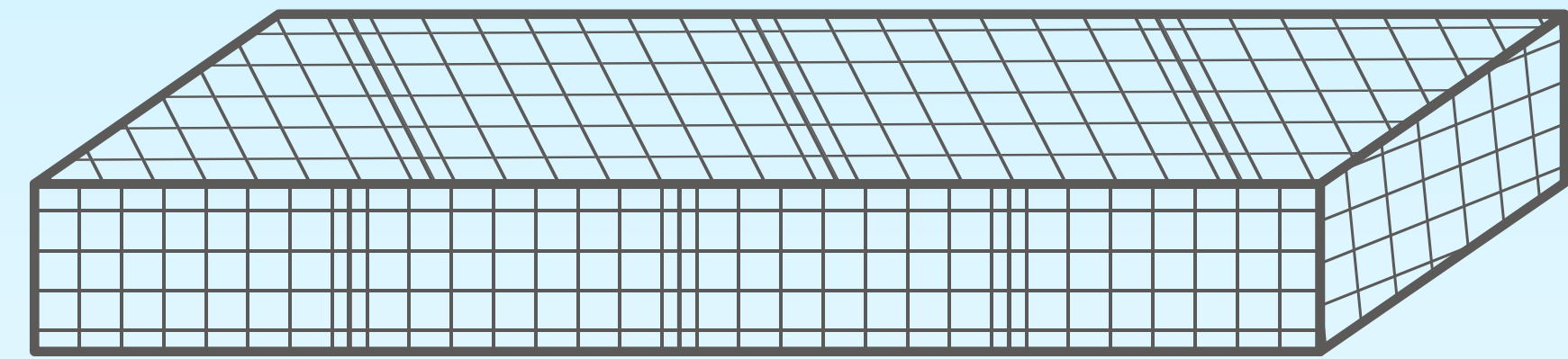


Water



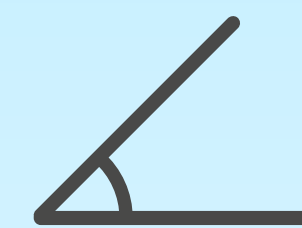
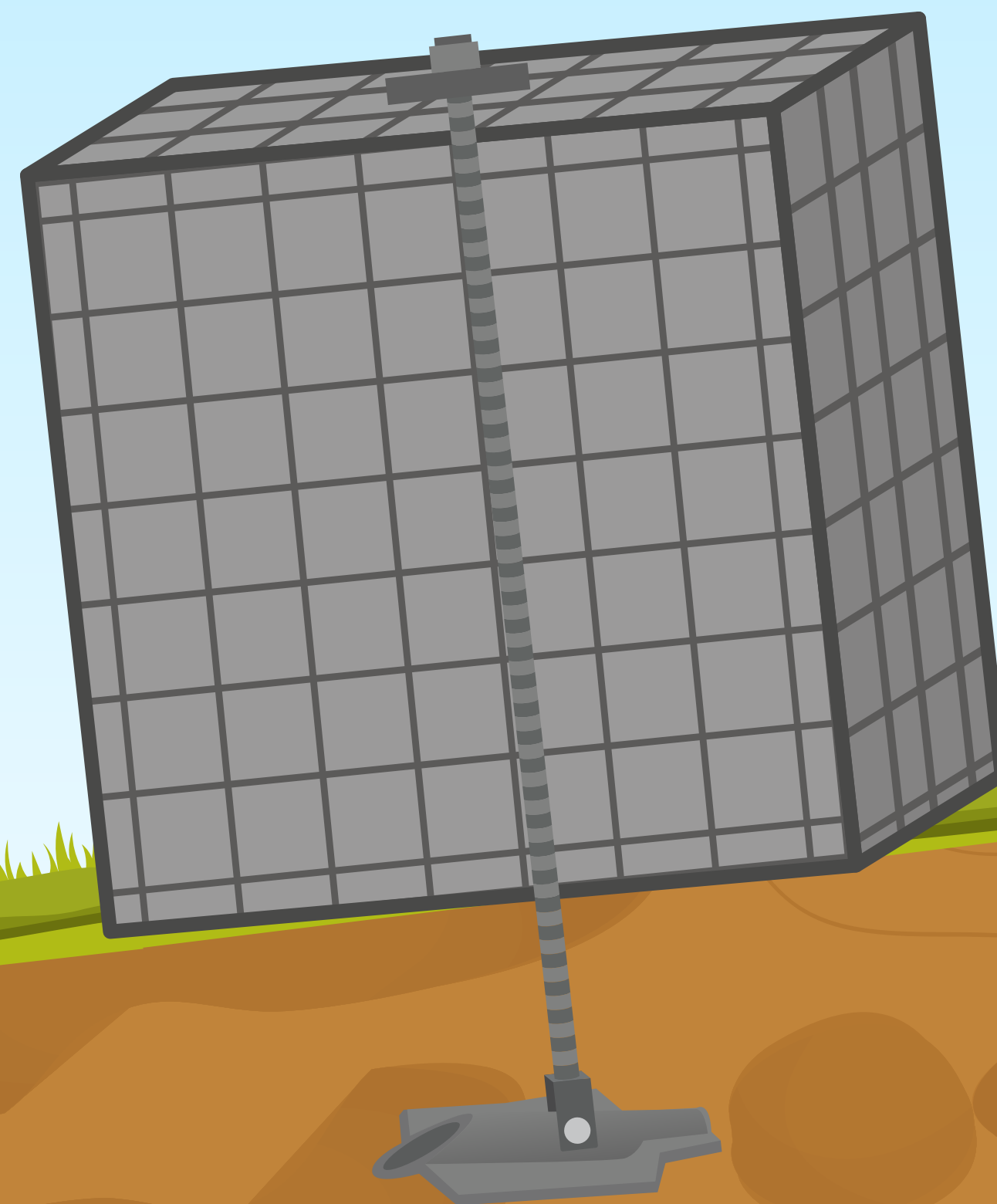
UV-exposure

For water and UV-exposure, PVC-coated 3.7-millimeter galvanized double-twist woven wire is a proven solution.

Rectangular**Cube****Flat**

Gabion baskets are rectangular- or cube-shaped, and reno mattresses are flat, but both are similar in construction.

For retaining walls and slope protection, gabion baskets are generally installed vertically, stepped into a slope, or leaning up to 5 degrees into a slope.

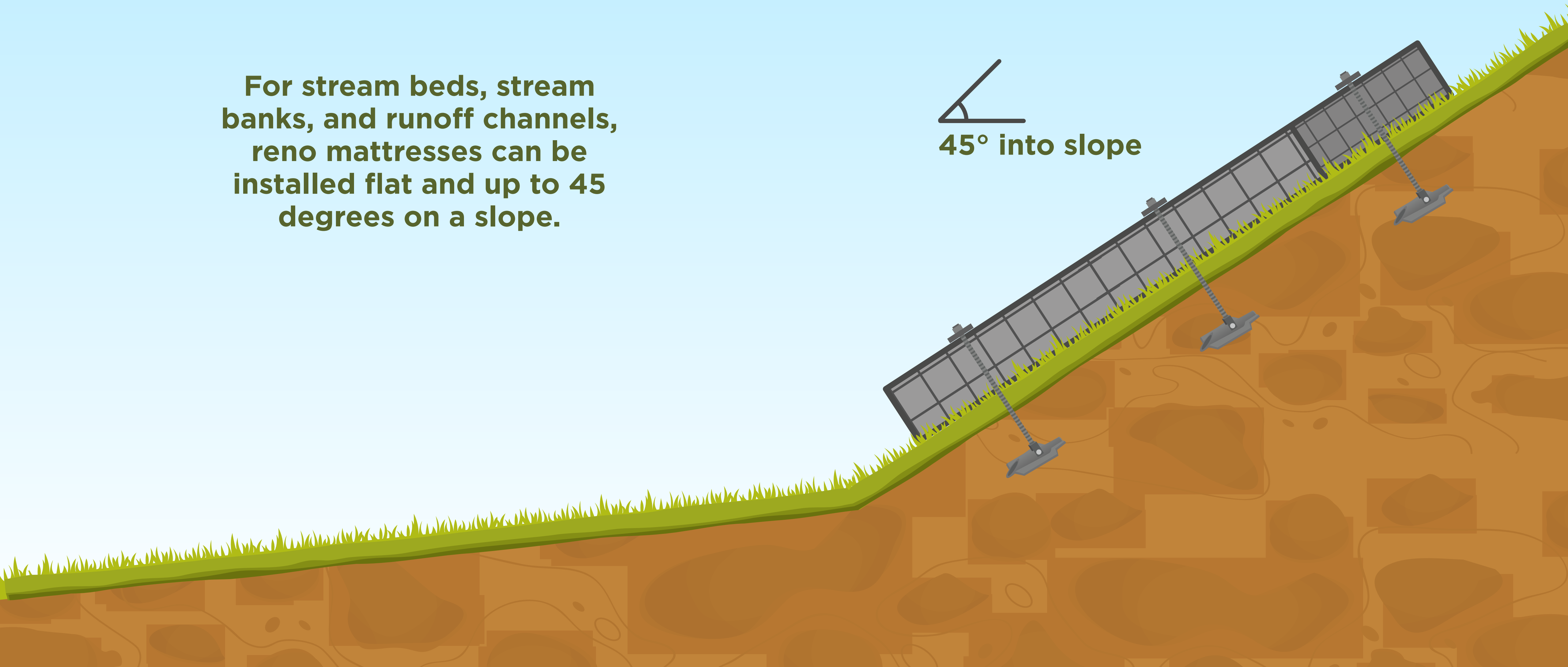


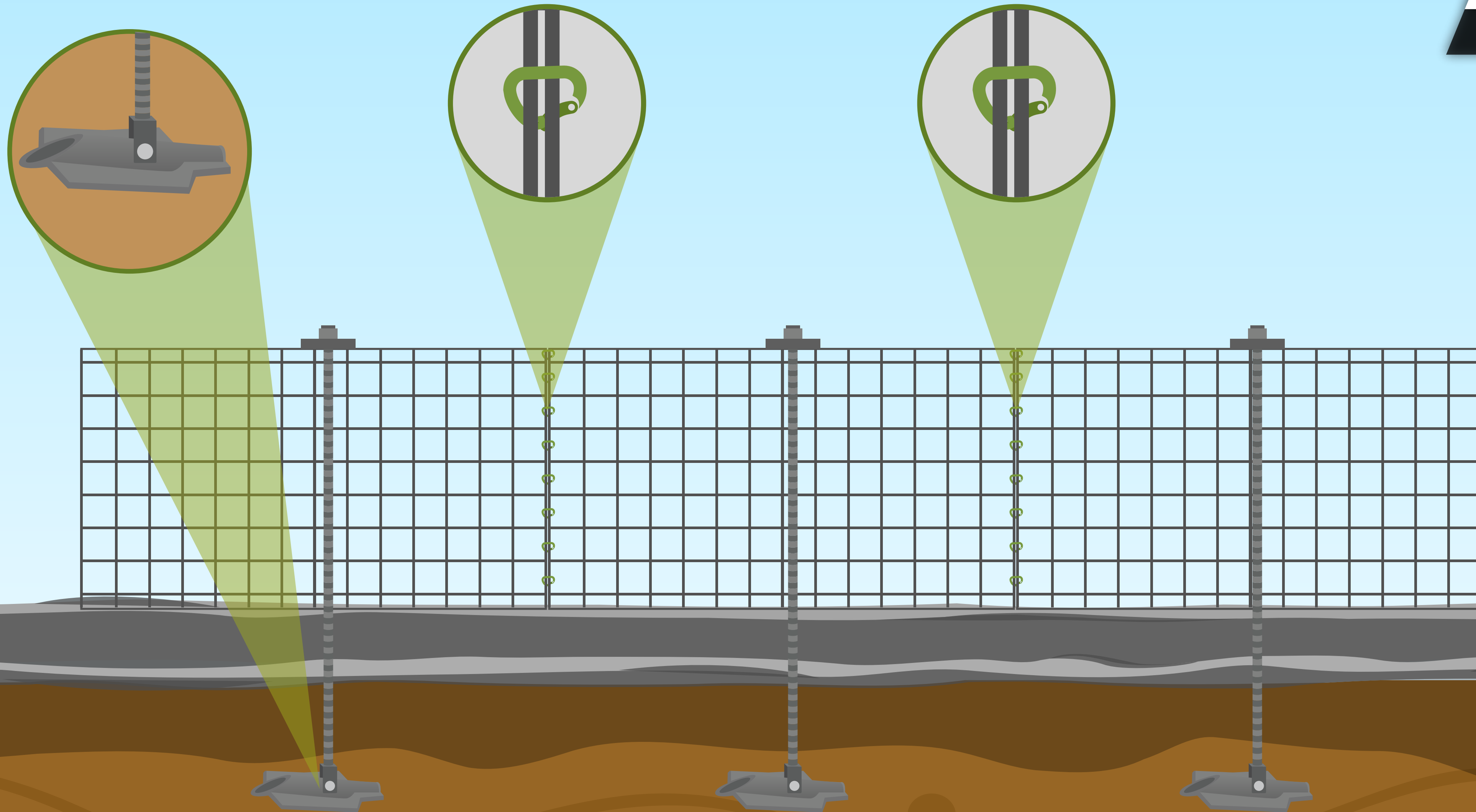
3-5° into slope

For stream beds, stream banks, and runoff channels, reno mattresses can be installed flat and up to 45 degrees on a slope.

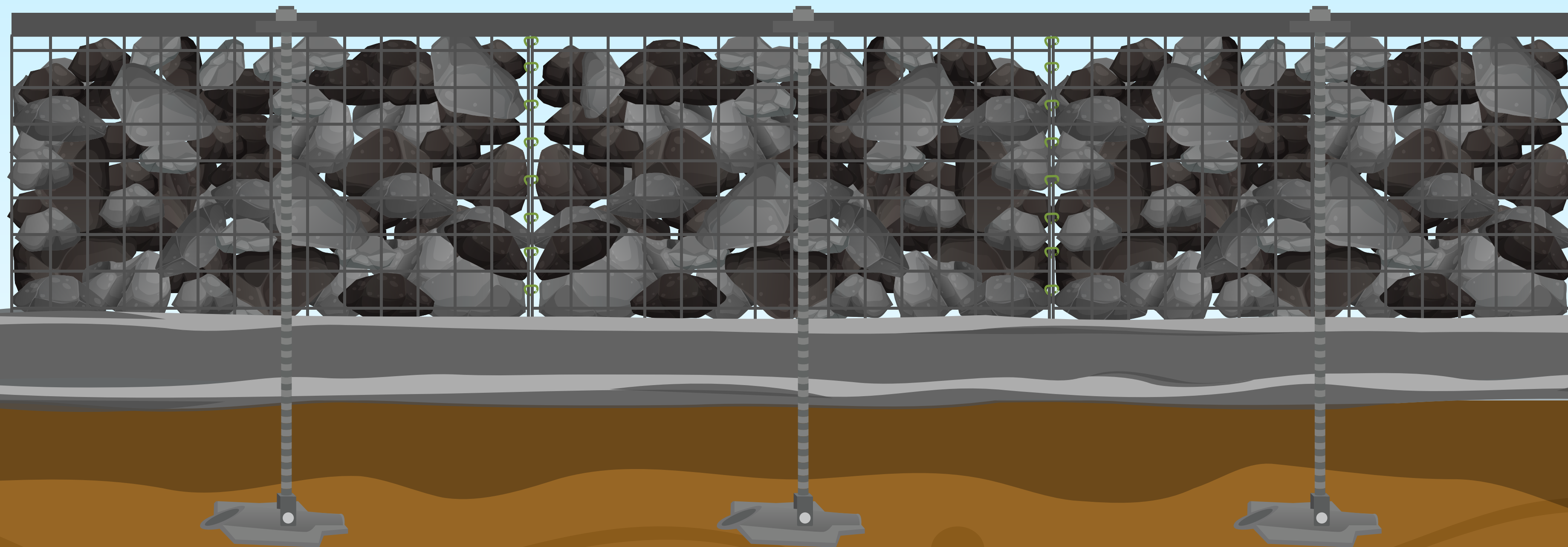


45° into slope





Before installing gabion baskets or reno mattresses, the base should be graded and tamped. Hewn rock or concrete foundation also works. Lay out baskets and anchor them to the surface. Internal baffles and ties prevent shifting and bulging.




Lay in fill, such as 4 to 6-inch blasted stone or local washed and graded stone. After filling, lace basket and mattress covers closed, ready for service or as a base for more baskets.



GEO SYNTHETIC

S Y S T E M S

 geosyntheticsystems.ca

 Info@geosyn.ca

 3543 Conroy Road. Ottawa, ON K1T 3S6

 (866) 490-4GEO (4436), (613) 733-9585