

StrataFast – Load transfer accessory

StrataFast is essentially a load transfer accessory made of high quality material (Nylon 66) to transfer forces from the StrataWeb® geocell system to the supporting StrataCord tendon.

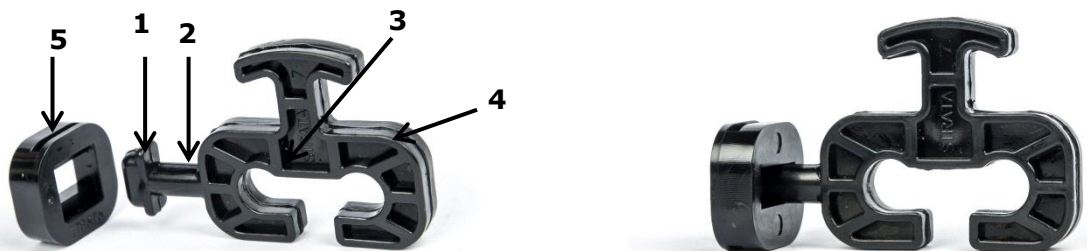
Highlights of StrataFast and StrataCord

StrataFast essentially comprises of a fastening system and a mooring system. There is a prismatic key (1) which is connected by a stem (2) to a flat mooring device comprising of a hook (3) and a C-shaped moor (4). The mooring device secures the StrataCord tendon.

StrataFast is connected to StrataWeb® by inserting the prismatic key (1) and stem (2) into a slot through the seam of StrataWeb® and locked into position with the locking nut (5). The locking nut (5) is pressed into the prismatic key by aligning its rectangular orifice concentric to the prismatic key (1) and rotated through 90°.

StrataFast is UV stabilised with the addition of carbon black. The locking device is fool-proof and cannot be removed without manual intervention with effort. The locking system has been tested and can take high tensile forces. The mooring system can effectively transfer stresses from the StrataWeb® cell to the high strength StrataCord tendons.

StrataCord is made up of high tensile polyester yarn woven into a braided strap and has low chemical and biological degradation. The elongation at break is around 16% with an ultimate tensile strength upto 8kN. Higher strengths can also be provided for critical projects. StrataCord is engineered and designed for StrataWeb® anchoring and load transfer on slopes.



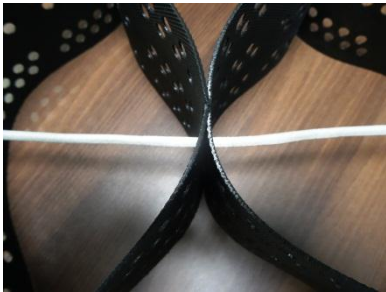
StrataFast in locked mode

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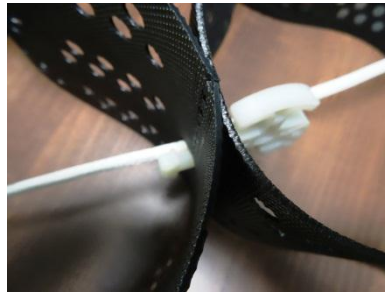
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Installation procedure

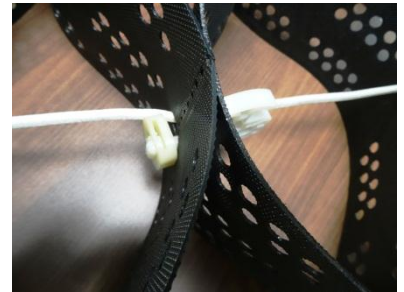
- StrataCord is passed through the slot in the welded seam of StrataWeb® geocell for a set of panels
- StrataFast is inserted through the slot in the unlocked mode
- The key is locked by inserting and twisting the locking nut through 90°
- StrataCord is moored to StrataFast as shown sequentially in the diagram



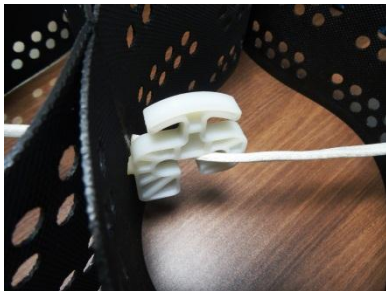
1. StrataCord through slot at welded seam of StrataWeb®



2. Unlocked StrataFast stem fitted into StrataWeb® slot



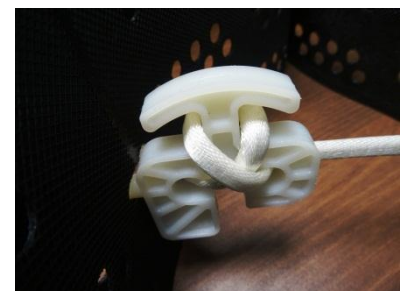
3. StrataFast locked by locking nut and twisting



4. StrataCord slipped through the hook



5. StrataCord twisted around mooring system



6. StrataCord slipped through arm of hook

Advantages of StrataFast

- 100% positive connection
- Full stress transferred
- Easy and rapid to install
- UV stabilised and engineered for high stresses

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