PRECONTRAINT
TX30

Précontraint TX30 has been developed to meet the mechanical and aesthetical longevity requirements of the most demanding projects. In addition to the proprietary Précontraint technology benefits, the Précontraint TX 30 material combines an ultra resistant 30 YEAR coating formula and a CROSSLINK PVDF top coat.

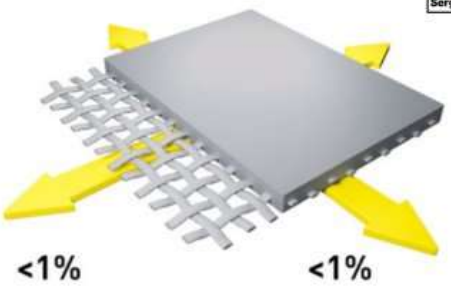
Dimensional stability / Low maintenance

The Serge Ferrari exclusive **Précontraint technology** provides unique dimensional stability compared to conventionally coated composites. It avoids re-tensioning and sagging.

- The polyester micro-cables are tensioned in both directions during the coating process resulting in flatter micro-cables and lower elongation and creep in both directions.

Elongation (EN 15997) : <1% / <1% (warp/weft direction)

Approx. 3 times lower elongation than Non Precontraint composites.



Natural light for architecture

Hold this section up to a light source to gauge the translucency of new Precontraint TX30-II

TX30-II 3000

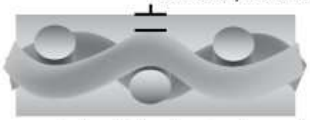
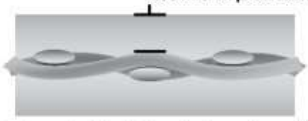
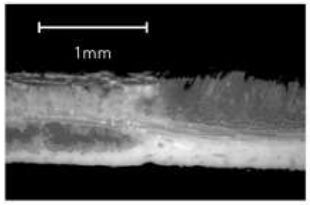
TX 30 I - II – III – IV and V samples are available on demand.

The 30 YEAR coating formula provides outstanding mechanical longevity

The mechanical longevity is directly linked to the quality and thickness of the coating which protects the yarns from the UV. The Précontraint TX30 longevity is served by:

- **A 30 YEAR coating formula** that is highly resistant to the erosion generated by weather aggressions (UV, rain...),
- A thicker coating protection at the top of the flat micro-cables resulting from the Serge Ferrari **Précontraint technology**.

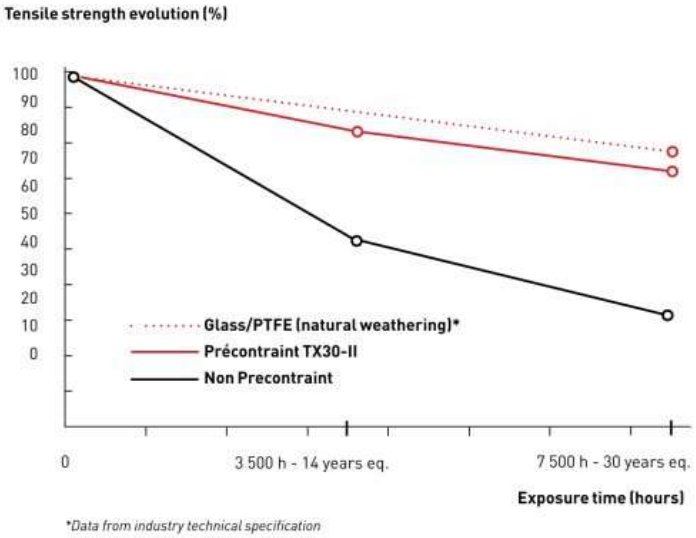
30 YEAR coating formula to stand the test of time

Product reference	Non Precontraint	Précontraint TX30
Before weathering	130 micron protection  > Less protection of the polyester micro-cables against UV	230 micron protection  > Greater protection of the polyester micro-cables against UV
After weathering 7500 h – 30 Year Florida Eq	 Erosion of the coating - Polyester micro-cables are naked and exposed to UV degradation. **> Drop of mechanical properties (see below)**	 Limited erosion – Polyester micro-cables are still well protected against UV by the coating. **> Better mechanical longevity (see below)**

Mechanical strength evolution

The mechanical strength has been measured at different intervals during the accelerated weathering.

Précontraint TX30 maintains a better mechanical resistance after 30 years thanks to a better protection of the polyester micro-cables.



*Data from industry technical specification

The above data are extracts from a long term accelerated weathering test based on ISO 10640. The weathering protocol was validated by comparing