La légèreté des alliages aluminium-magnésium ($D = 2.8$) alliée à des traitements thermiques appropriés fait que VITUS 979 DURALINOX est comparable aux cadres acier haut de gamme, pour un poids inférieur d'environ 30 %.

The lightness of the aluminium-magnesium alloy ($D = 2.8$) with adapted thermic treatments does that VITUS 979 DURALINOX is comparable with the top of range steel frames, with an inferior weight about 30 %.

Why bonding?

Jointing by adhesives is a technique widely used in aerospace and aeronautics for the following reasons:
- It has no influence or effect on the properties of the alloys forming the joint, contrary to jointing by welding or brazing,
- It affords an even distribution of stress.
- Joints are sealed and protected.
- There is a degree of elasticity which reduces shock.
- Mechanical properties are excellent.
- There is a high degree of resistance to corrosion and to ageing.

Bonded constructions give excellent results provided that:
- The surface to be joined are scrupulously prepared before the adhesive is applied,
- Recommended procedure is carefully followed and time is allowed for hardening,
- Weight bearing suaces and jointing surfaces are adequate and so designed that the amount of adhesive within the lugs can be precisely controlled.

VITUS 979 DURALINOX et VITUS PLUS CARBONE ont bénéficié de l'aide à l'innovation ANVAR.