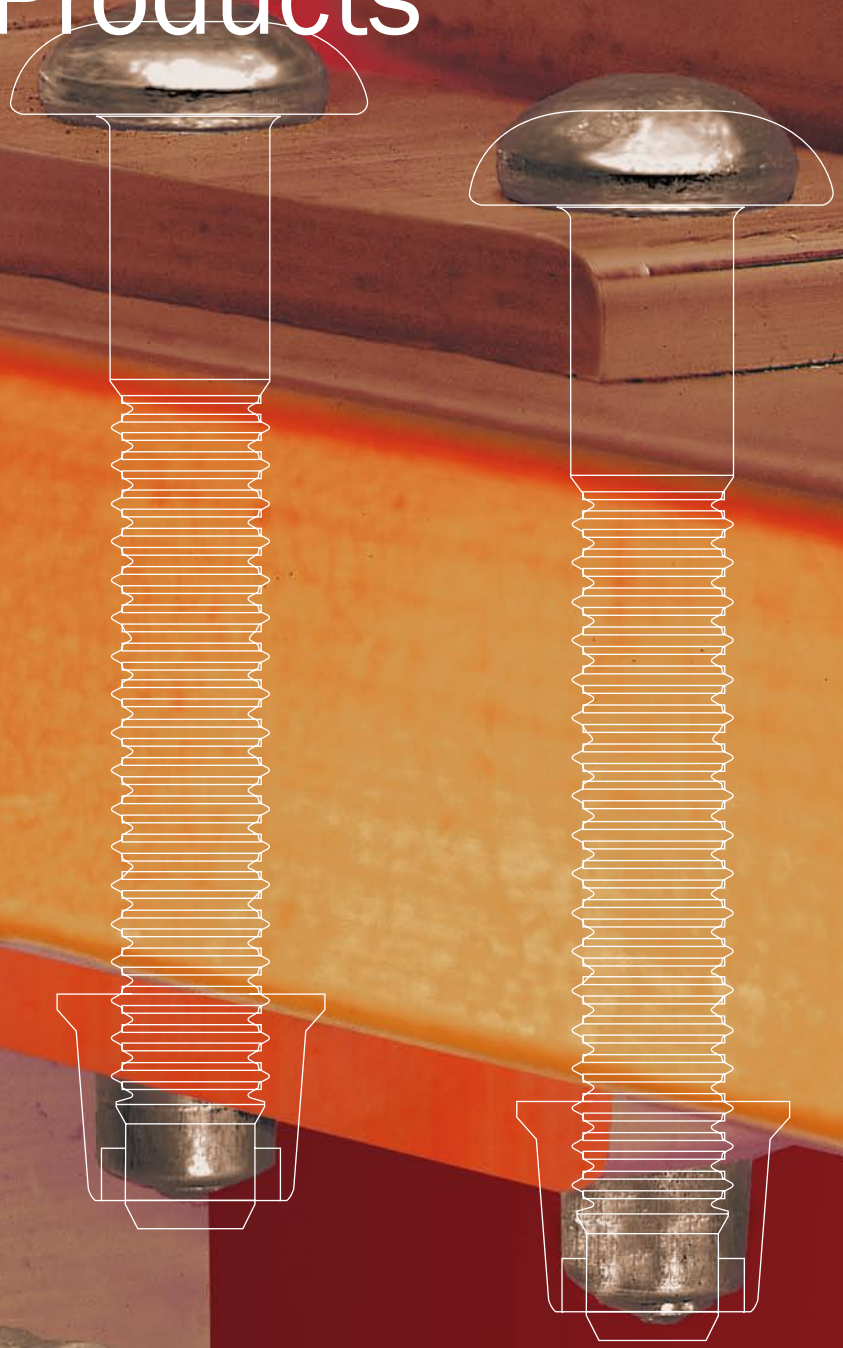


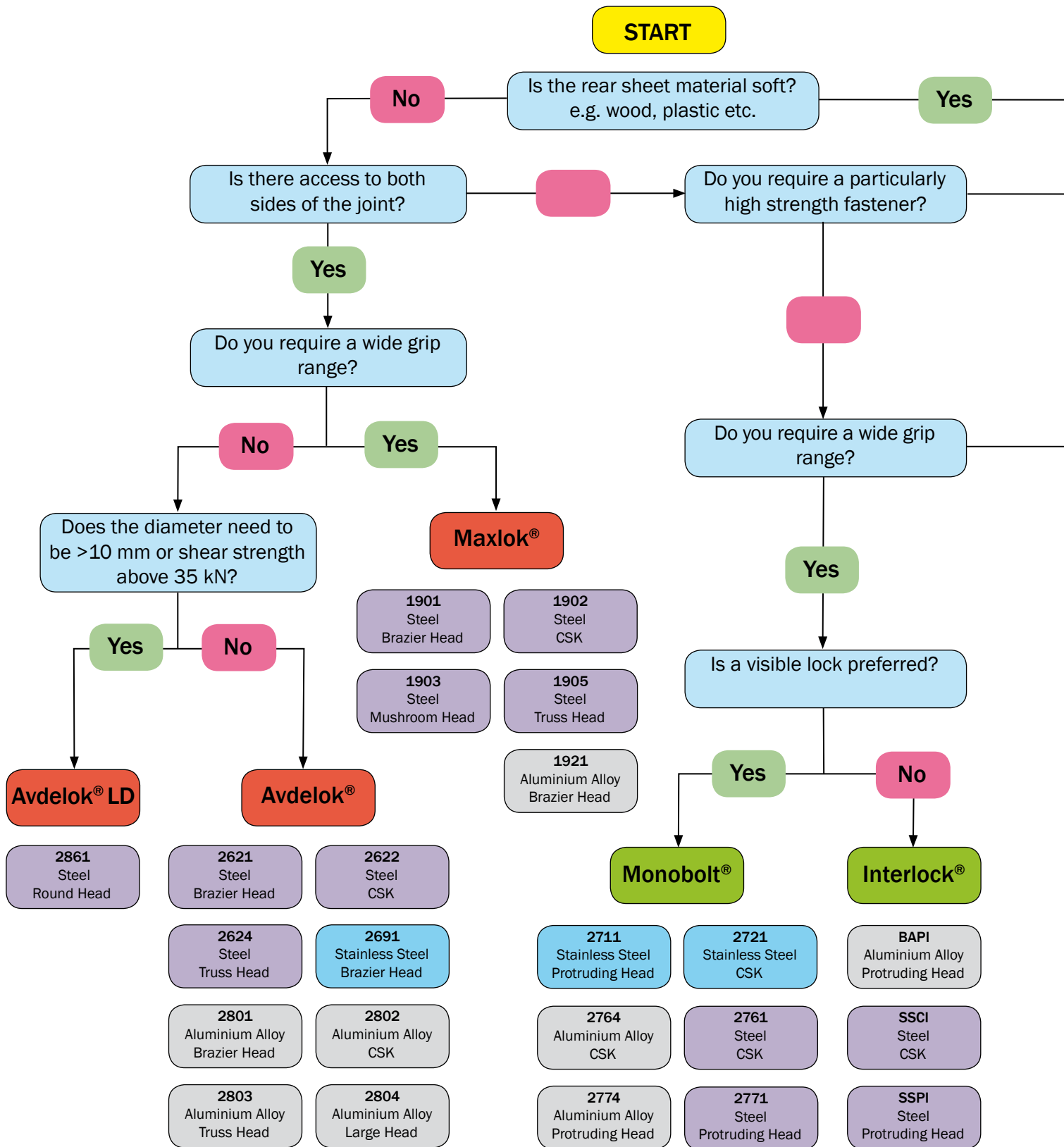


Selection Guide Structural Products Breakstem & Lockbolt Systems

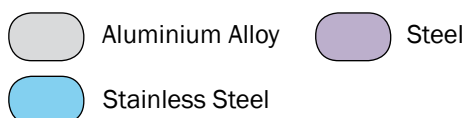


Avdel Breakstem Systems - structural

Avdel Lockbolt Systems



Key for body/pin material

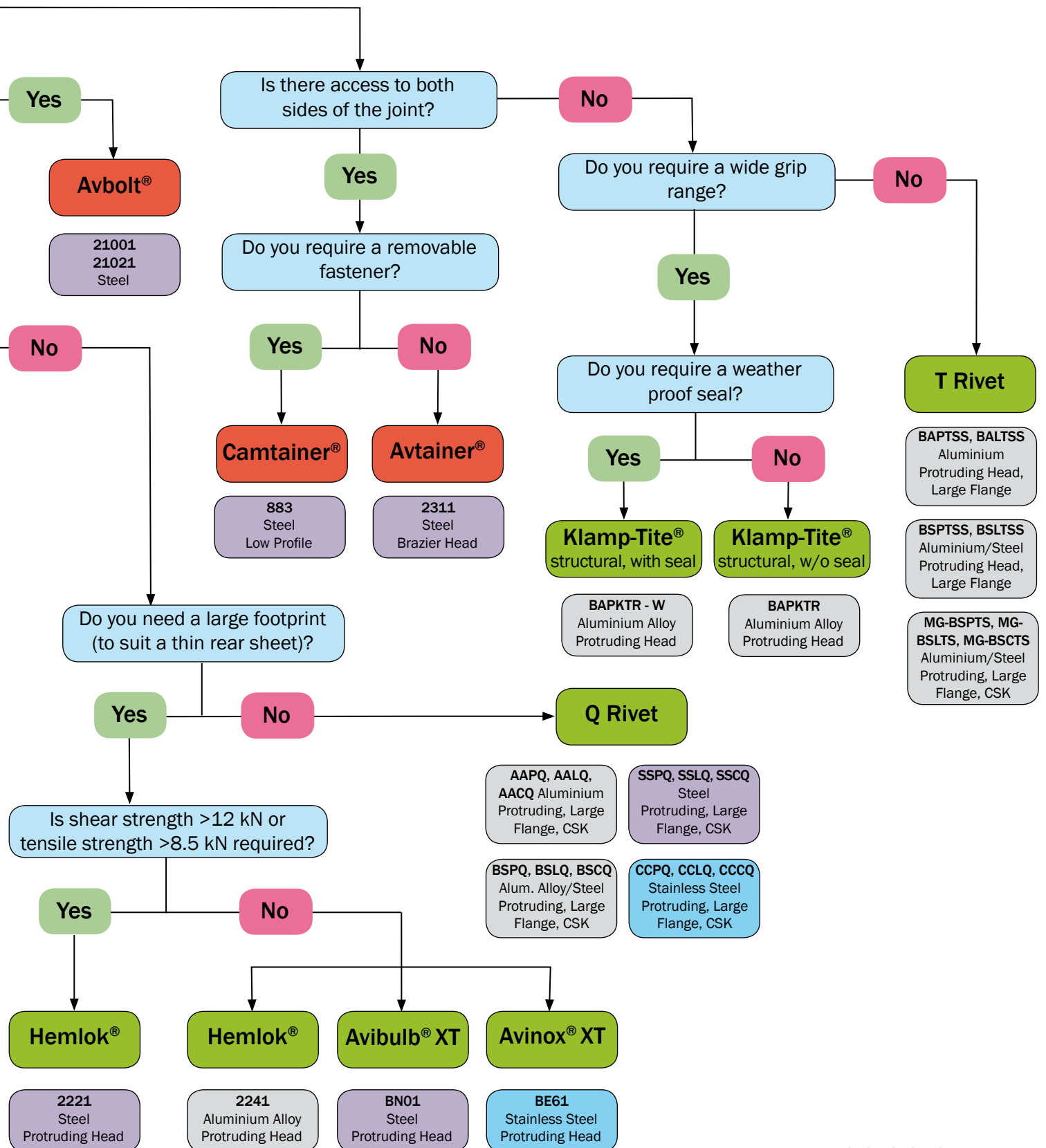


The material types have been colour coded throughout the guides to help you select the right fastener. The selection of the material depends on the application requirements, e.g. corrosion resistance, strength, temperature, electrical conductivity.

Avdel can offer special finishes for your application on all Avdel fasteners. For more information please contact an Avdel Representative.

This selection guide is designed to help show you which fasteners may be the most suitable for your application. An Avdel Applications Engineer is available to answer any questions you may have. This guide does not include the full range of Avdel products and for more information on specialist products please see the appropriate brochure or our website www.avdel-global.com. Our design department is able to create variations on all our products to suit your individual needs quickly and efficiently.

This guide contains higher strength fasteners including Structural Breakstem rivets (a breakstem rivet with the stem retained in the shear plane plus a locked stem giving the rivet a high shear strength) and lockbolts (pin and collar fastening system) which provide exceptionally high performance for the most demanding of applications.



Breakstem Systems - Benefits of Assembly & Range Overview

Avdel structural breakstem systems are designed for rapid, blind assembly in load-bearing structural applications, where high shear and tensile strength is required. Key user benefits include:

- Blind assembly
- High shear and tensile strength
- Multi-grip performance
- Complete hole fill
- High speed assembly
- Good clamp and vibration resistance
- Consistent high performance
- Positive stem retention

Avibulb® XT (steel)
Avinox® XT (stainless steel)



High shear and tensile strength
Wide grip range
High residual clamp load
Good blind side footprint
Reliable stem retention
Suitable for softer materials

Klamp-Tite® (structural)



Split tail formation for thin sheet and low strength materials
Multi-grip capability
Good clamp up
Mechanically locked stem
Visible lock

Hemlok®



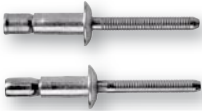
Very high shear and tensile strength
Large blind side bearing area
Mechanically locked stem

Q Rivet



Interference lock via a splined stem
Stem plugs entire shell length
Weatherproof

Monobolt® / Interlock®



Multi-grip capability
Superior hole sealing
Excellent hole fill
Mechanically locked stem
Good sheet take-up performance
Monobolt® features a visible lock

T Rivet



'Peel-type' tail formation
High shear and tensile strength
High clamp up
Visible lock

Lockbolt Systems - Benefits of Assembly & Range Overview

Avdel two piece lockbolt systems are designed for high strength assembly. Quick and simple to place, they provide tamper-proof joints and are the ideal solution where spot welding is not practical or not possible. They are widely used in demanding engineering industries such as vehicle body building, railways, construction and containers. Key user benefits include:

- High speed assembly
- High shear and tensile strength
- Consistent high clamp
- Excellent vibration resistance
- Tamper-proof joints
- Quick and simple to install

Avdelok®



High shear strength
High controlled clamp

Avtainer®



High shear strength
Joins composite panels to metal
Leak resistant
High speed installation

Large diameter Avdelok® LD



Exceptional shear and tensile strength
Sizes from 12.7 mm (1/2") to 25.4 mm (1")

Camtainer®



Removable, reusable nut and bolt
Joins composite panels to metal
Leak resistant
Secure, vibration resistant joint

Maxlok®



Wide grip range
High shear strength

Avbolt®



Use on blind side application
High residual clamp force
High tensile and shear strength
Speed of installation
High grip capability



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02.2011

Data shown is subject to change without prior notice as a result of continuous product development and improvement policy. Your local Avdel representative is at your disposal should you need to confirm latest information.