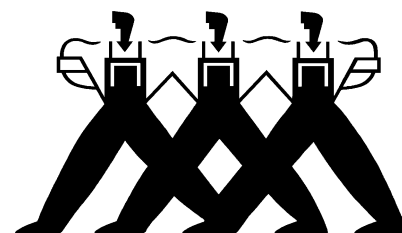


# TIMBER-RESIN SPLICE

## TRS KITS in service since 1992

An Ultra Low Disturbance  
Building Solution



### DESCRIPTION

Timber-Resin Splice Kits are designed to replace rotted timber beam ends, or mid sections. The Timber-Resin Splice (TRS) consists of a new piece of timber, usually laminated from kiln dried timber, made to match the size and if necessary Species of the original. The TRS is joined to the parent timber using high tensile steel threaded bar, zinc plated, and Structural Epoxy Pouring Grout.

### Features

- Made to measure
- Can be made to match the original Species of wood in Oak, Elm, Pine, etc.
- Saves sound timbers
- Renewable timber
- Minimum resin use
- Reduces building costs

### TYPICAL USES

For replacement of rotted timber beam ends and mid sections, including joists, rafters, purlins, Bressumers, carrier beams and ridge beams.

### PREPARATION & METHOD

Cut out all rotted, loose or flaking material and vacuum to remove dust.

Prepare slots or holes in the parent timber to accommodate the bars.

Mate the TRS Unit to the Parent Timber and seal the faces using rapid setting wood filler.

Pour or inject the Structural Epoxy Pouring Grout or Resin into the slots or holes.

**Ensure that the temperature is above 5 degrees Centigrade, or pre-warm the materials, otherwise curing may be delayed or prevented.**

**Allow at least 48 hours before de-propping, provided that the temperature has remained above 5 C at all times.**

### DESIGN GUIDANCE

TRADA Eurocode 5, TRADA Wood Information Sheets, TRADA Technology Report 3/2000.

### TECHNICAL DATA

#### Timber

Kiln dried C24 Graded, then laminated

#### Connection Bars

High Tensile Steel, Zinc Plated Allthread

#### Resin

Structural Epoxy Pouring Grout or Resin

#### Bond Strength/Tensile Shear Adhesion

12 N/mm<sup>2</sup>

**Compressive Strength** - 81 N/mm<sup>2</sup>

**Tensile Strength** - 22 N/mm<sup>2</sup>

**Flexural Strength** - 42 N/mm<sup>2</sup>

**Flexural Modulus** - 5720 N/mm<sup>2</sup>

**Specific Gravity** - 1.53

#### Static Modulus of Elasticity

$E_t$  17,235 KN/mm<sup>2</sup>

#### Aggressivity to other materials

No known aggressivity

#### Classification

Irritant & corrosive

#### Colour

Mid Grey

#### Creep Testing of Epoxies

Case Study on Repairs in Service, TRADA Report No.PIF108/4, TTL, 1995.

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**DCM – 10/13**