



# Typical Consultants Specification

## SPRINKLER FLEXIBLE TUBE ASSEMBLY

### Consultants' Specification

As an alternative to steel pipe and screwed fittings for sprinkler dropper fit-off, use a Stainless Steel, Braided type, Sprinkler Flexible Tube Assembly.

The **Sprinkler Flexible Tube Assembly** shall be equal or equivalent to Yong Won brand '**flexi-dropper™**' as supplied by AFT Australia Pty Ltd and must be **SSL / UL** approved and listed. It must consist of a **braided** stainless-steel covered flexible convoluted stainless steel tube with a special inlet nipple and a special outlet reducer nipple, plus a ceiling grid fixing assembly suitable for securing to all types of ceiling grid.

The **Sprinkler Flexible Tube Assembly** shall have an identical female "slip-nut" at each end to facilitate connection to the supplied special nipples. Each "slip-nut" joint shall be fitted with an NBR 'O' ring to provide leak-free sealing. The 'slip-nut' connection must be fitted to the Sprinkler Flexible Tube in a way to ensure the 'O' ring is secured in position and not exposed, to avoid risk of 'O' ring falling off.

The inside diameter (ID) of the Stainless Steel Tube must comply with the requirements of AS2118.1 - 2006, Clause 7.6, Item (a) Pg 84 - equivalent to Yong Won Model YB28 with a nominal bore of 25mm AS1074 Medium Black Steel Pipe (ID 27mm) for Ordinary & High Hazard, and Model YB25 with a nominal bore of 20mm for Light Hazard. The tube shall be made from Grade 304 Stainless Steel Bright Finish; the outside braided sleeve shall be 0.3mm thick Grade 304 Stainless Steel Wire, Bright Drawn Finish.

The **Ceiling Grid Support Assembly** shall consist of a 650mm, 1300mm or 1600mm length of mild steel bright drawn finish, square hollow section (SHS), two identical clamps for securing the SHS to the ceiling support channels, and a mild steel support bracket for rigidly clamping the outlet reducer nipple to the SHS. The bracket and clamps shall provide a convenient and quick means of accurately setting up the location of the sprinkler head relative to the ceiling grid. The clamps shall be a universal type capable of securing the SHS to all types of ceiling grid and suitable for both normal and fully concealed type sprinkler heads.

**Sprinkler Flexible Tube Assembly** must be installed in accordance with the manufacturer's installation instructions provided. These instructions shall also include equivalent length details determined in accordance with the requirements of UL2443.

