

## INSTALLATION GUIDE - GENERAL

Antec Fixed Manual Hose Reels are manufactured in accordance with Australian Standard AS/NZS1221. The products are certified by global-mark License No. 103379. The reel must not be modified or dismantled before or during installation as such action will void the product certification.

The supply of water shall be sufficient to enable the hose to deliver a minimum of 0.33 litres/second at an inlet pressure of  $220 \pm 10$  kPa. Where the water supply does not comply with this requirement, the installation of a fire hose reel is not recommended.



Fixed Manual Hose Reel

## LOCATION & MOUNTING REQUIREMENTS

- a) Each hose reel shall be located along the normal paths of travel to an exit; and in a readily accessible position, in accordance with the requirements of the Building Code of Australia (BCA). They shall not be installed in positions where access could present a hazard to the potential user; or in fire-isolated exits.
- b) Access to fire hose reels shall not be obstructed, e.g., from items such as furniture.
- c) Where a fire hose reel is installed in an external situation or an aggressive environment, it shall be protected by a cabinet or other suitable means.
- d) Fire hose reels shall be sited so that there is no interference with the running out of the hose.
- e) Surface-mounted fire hose reel assemblies shall be mounted so that the full diameter of the drum, bearing the operating instructions, is facing the access point.
- f) The fire hose reel assembly shall be suitably mounted at a spindle height of between 1400 mm and 2400 mm above floor level. The stop valve shall be mounted at  $1000 \pm 100$  mm above floor level.
- g) The stop valve assembly and instructions shall be visible and readily accessible when the fire hose reel is ready for operation and shall be not more than 2000mm from the spindle of the hose reel assembly. A clearance of not less than 100 mm shall be provided around the stop valve handwheel or handle at any point where an operator needs to place their hand.
- h) When the fire hose reel is surface-mounted or in a recess, cabinet or cavity, there shall be a minimum radial clearance of 100 mm between the reel rim and any obstruction to the sides, above and below that does not form part of the fire hose reel assembly. In the case of swing-type fire hose reels and those housed in cavities, the above clearance applies when the fire hose reel is withdrawn from the cabinet or cavity.
- i) Where a fire hose reel is fixed in a cabinet or recess, the hose guide shall protrude beyond the recess when the hose is run out unless the requirements of Clause 12(b) can be met without the hose guide protruding.
- j) Where a fire hose reel is mounted in a cabinet, the cabinet door(s) shall be operable by single-handed operation of the latching mechanism.
- k) The fire hose reel and its mounting shall be firmly secured to the mounting surface in accordance with the installation instructions provided with the fire hose reel in accordance with AS/NZS1221.





## INSTALLATION

This hose reel should be installed in accordance with AS2441 or NZS4503.

- Fit wall bracket with 4 fasteners.
- Fit hose reel into the wall bracket.
- Fit hose roller guide to 25mm inlet pipe.
- Attach ball valve to the water supply, then using the union connect to the hose reel 25mm inlet pipe.
- The hose and nozzle must feed through the roller guide and be secured to the nozzle interlock on the ball valve.
- Carry out the fire reel commissioning procedure as documented in AS2441 or NZS4503.

## COMMISSIONING PROCEDURE

After installation of the assembly, the following points shall be checked:

- That there is no leakage of water from the fire hose reel assembly when the hose is charged with water and pressurized with the nozzle closed.
- That the hose can be withdrawn easily in any of its intended directions of use; that is the hose shall be capable of being unwound when subject to horizontal pull not exceeding 100 N until the hose contacts the ground (see 'reel unwind test' in AS/NZS1221).
- That the flow rate with the nozzle in the jet mode is operational by discharging water into a container. The rate of flow shall be not less than that given in Table 6.1 of AS2441.
- That any defects found have been corrected.
- That with the stop valve open, the hose is rewound in even layers, the nozzle reengaged correctly in the interlock and the stop valve then closed.
- That the discharge nozzle has been opened to depressurize the hose and then closed.
- That a tag has been attached to an accessible fixed component of the fire hose reel and marked with the month and year of commissioning, to indicate that the commissioning procedure has been carried out.

## OPERATION

Refer to the pictorial operating and rewind instructions located on the front disc of the fire hose reel.

## MAINTENANCE

It is recommended that this hose reel be maintained in accordance with AS1851 or NZS4503. All 6 monthly and 12 monthly inspections and service should be carried out by qualified and experienced personnel who are familiar with the requirements for maintenance records and tagging.

