

PLANNED MAINTENANCE

SMOKE CURTAINS

Smoke curtains may not be regularly activated, but must always be functional in an emergency. Therefore routine scheduled inspections and maintenance are vital.

Smoke curtains should be maintained in accordance with AS1851 Clause 18.4.1.8 as well as the requirements given below.

If a problem exists, make immediate adjustments or repairs, or contact the supplier or manufacturer for assistance. It is important to reset all barrier functions after inspection or maintenance.

Monthly testing (by client)

1. Ensure maintenance staff have received training from the smoke curtain manufacturer / supplier at commissioning
2. Check that all units have remained and are still free of all obstructions within their descent path
3. Check that there have been no additions to walls / surfaces in the vicinity of / or in the descent path
4. Operate unit from the Battery Back Up Unit (BBU)
5. Ensure all curtains deploy to their Fire Alarm Operational Position, i.e. down
6. Manually reset the curtains by turning key to 'Normal' position
7. After any operation, the curtain system must be reset to retracted position
8. Enter test time, date and inspectors name on record sheet
9. Report any operational difficulties or failures to the smoke curtain manufacturer / supplier

Six-monthly maintenance (by competent person)

1. Repeat monthly testing procedure
2. Visually inspect curtains for damage
3. Check head box brackets and unit is secured to the structure
4. Check that the barrel assembly is securely mounted so the rolled up curtain on the barrel at the correct level
5. Check the curtain moves freely in the side guides without jamming under normal operation (if applicable)
6. Check that the side guides are securely fixed to the structure (if applicable)
7. Activate the fire alarm signal and check the curtains descend to its fire alarm operational position
8. Reset the fire alarm signal and reset the curtain to retract position, i.e. up
9. Check gravity fail safe operation
10. After any operation, the curtain system must be reset to retract position
11. Report any operation failures to the smoke curtain manufacturer / supplier

Annual maintenance (by competent person)

1. Repeat six monthly maintenance procedure
2. Check Battery Backup Unit (BBU)
 - a. Check all the LEDs on BBU cabinet
 - b. Perform electrical checks; LEDs on BBU charger card, charger input, charger output, signal voltage, 24v DC output, battery state
 - c. Visual inspection of all visible wiring, connections, equipment for evidence of damage, wear, interference etc.
3. Check Motor Control Card (MCC)
 - a. Visual check of all descent and ascent rates on individual Motor Control Cards (MCCs) according to set speed where specified
 - b. Visual inspection of all visible wiring, connections, equipment for evidence of damage, wear, interference etc.
4. Check Curtain Operation
 - a. Inspect all curtains when in the down position for integrity of covers, abrasion, tears, stitching, snagging etc.
 - b. Ensure that all covers are neat and tidy without excessive creases, puckering etc., re-align bottom bar where necessary
5. Rectify where necessary, and leave call report at site to advise of situation
6. Visually inspect curtains for damage
7. Complete annual certification

Bi-annual maintenance (by competent person)

1. Repeat annual maintenance procedure
2. Replace the batteries in the Battery Backup Unit (BBU)



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