

## CSIRO FIRE ASSESSMENT SUMMARY

- LOXO 50mm AAC External Wall Panel System – Fire Certificate COT 2363A and full report FSV 1525A

### With the following variations approved as part of CSIRO Fire Assessment FCO 2915

- (i) be capable of achieving a fire-resistance level of 120/120/90, with stud frame and supporting a load of 11.4kN/m or less if
  - a. the studs were changed to
    - i. 70-mm x 45-mm MPG10 timber studs at 450-mm centres;
    - ii. 90-mm x 35-mm MPG10 timber studs at 450-mm centres;
    - iii. 90-mm x 45-mm MPG10 timber studs at 450-mm centres;
    - iv. 90-mm x 35-mm MPG10 timber studs at 600-mm centres;
    - v. 90-mm x 45-mm MPG10 timber studs at 600-mm centres;
  - b. the battens were changed to 20-mm or 40-mm steel battens;
  - c. sarking or insulation complying with Specification C1.10 of the BCA was installed within the wall; or
  - d. the Loxo AAC panel size was maintained at 50-mm or increased to a thicker panel.
- (ii) be capable of achieving a fire-resistance level of 120/120/90, with stud frame and supporting a load as calculated by the relevant Australian design codes if
  - a. the studs were changed to
    - i. 76-mm x 35-mm x 0.55 BMT steel studs at 450-mm centres;
    - ii. 76-mm x 35-mm x 0.55 BMT steel studs at 600-mm centres;
    - iii. 92-mm x 35-mm x 0.55 BMT steel studs at 450-mm centres;
    - iv. 92-mm x 35-mm x 0.55 BMT steel studs at 600-mm centres;
- (iii) be capable of achieving a fire-resistance level of 120/120/120, if construction as per (i) or (ii), above, but with the 10-mm thick standard plasterboard sheet replaced by 13-mm fire-grade plasterboard.
- (iv) be capable of achieving a fire-resistance level of 90/90/90, supporting a load of 11.4kN/m if construction as a party wall as detailed in drawing numbered 20-03-12, Sheet 1,2 and 3 dated January 2012(attached).

### With the following variations approved as part of CSIRO Fire Assessment FCO 2944

- (i) be capable of achieving a fire-resistance level of 120/120/120, with stud frame and supporting a load as per defined in FCO-2915, constructed as a party wall as detailed in drawing titled “LOXO 75mm PANEL PARTY WALL DETAIL” dated July 2012 (attached), provided the fixing spacing along the height of the AAC Loxo panels is limited to a maximum 3000-mm centre per panel.
- (ii) be capable of achieving a fire-resistance level of -/120/120, if constructed as an internal wall as detailed in drawing titled “LOXO 75mm INTERNAL WALL DETAIL” dated July 2012 (attached).
- (iii) be capable of achieving a fire-resistance level of 60/60/60, with stud frame and supporting a load as per defined in FCO-2915, constructed as detailed in drawing titled “LOXO 50mm PANEL PARTY WALL DETAIL” dated July 2012 (attached).
- (iv) be capable of achieving a fire-resistance level of 120/120/120, with stud frame and supporting a load as per defined in FCO-2915, constructed as detailed in drawing titled “LOXO 50mm PANEL SEPARATION WALL DETAIL” dated August 2012 (attached) provided the ratio of stud loading to stud loadbearing capacity is less than 0.6.