



0573 Fire Extinguishers and Blankets

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00 Design principles

0.01 Main considerations

It is a requirement to undertake the [00 PLANNING AND DESIGN/0001R - DESIGN REFERENCE](#) and [GLOSSARY OF TERMS](#) information into all aspects of design, detailing and delivery when developing the content here within. Clear demonstration of adherence to these requirements is part of the services and will be called upon at key points in the project and during at the discretion of the Department of Education (DoE).

Specification

01 General

As per current NATSPEC.

GUIDE NOTE: Fire extinguishers and fire blankets must not be located in accessible external spaces that are susceptible to vandalism. Instead they must be located in the nearest readily accessible learning space, Office or Staff Room

02 Products

As per current NATSPEC except as follows:

02.1 Extinguishers

Standards

GUIDE NOTE: Delete subclause “selection and location” in NATSPEC Building Template/ Worksection and replace with the following

- Selection and location to AS 2444
- Provide portable fire extinguishers as shown in “Fire extinguisher schedule”.

GUIDE NOTE: Add the following subclause to “extinguishers” in NATSPEC Building Template/worksection

General

- Portable fire extinguishers must be provided within a Homebases/GLS, no greater than 20 metres of the entry/egress point.
- Extinguishers should be mounted 1200mm to centre of hook or handle.

Installation

- Do not mount extinguishers inside an EDB or Electrical Switch Room
- Extinguisher identification and location discs should be supplied and installed for each extinguisher
- Verify the location of each extinguisher with the Principal's Authorised Person / Principal's Representative prior to installation.

GUIDE NOTE: Delete "fire extinguisher schedule" in NATSPEC Building Template/ Worksection and replace with the following schedule

Table 01: Fire Extinguisher Schedule: Primary Schools

Location	Size	Class of Fire	Type of extinguisher	Number
Clerical Office /Workroom	3.5 kg	B	Carbon Dioxide	1
Duplicating Workroom	3.5 kg	B	Carbon Dioxide	1
Library near A/V Workroom	3.5 kg	E	Carbon Dioxide	1
Communal Space: Light panel and SRS	5.0 kg	E	Carbon Dioxide	1
Include (BELOW*) only when a fire hose reel is not provided				
*Communal Space	9 lt	A	Air / Water	1
Communal Kitchen if provided	3.5 kg	B	Carbon Dioxide	1
Canteen	3.5 kg	B	Carbon Dioxide	1
Cleaning Supplies	3.5 kg	B	Carbon Dioxide	1
General Assistant / Bulk Delivery	3.5 kg	B	Carbon Dioxide	1
Garden Store	3.5 kg	B	Carbon Dioxide	1
Near Electrical Switchroom	3.5 kg	E	Carbon Dioxide	1

Location	Size	Class of Fire	Type of extinguisher	Number
*Home Base Kindergarten-Year1	9 lt	A	Air / Water	1 / homebase
*Home Base Year 2 – Year 6	3.5 kg	E, B	Carbon Dioxide	1 / homebase
Kiln Area, existing spaces	3.5 kg	E	Carbon Dioxide	1
Stairways	9 lt	A	Air / Water	1 each level
Support Unit – Practical Activities – Size 2 and 3	3.5 kg	B	Carbon Dioxide	1

Table 02: Fire Extinguisher Schedule: Secondary Schools

Location	Size	Class of Fire	Type of extinguisher	Number
Staff Study, Staff Lounge, Preparation/Printing	3.5 kg	B	Carbon Dioxide	1
Library Main Area (near Library Administration), Communication Room	3.5 kg	E	Carbon Dioxide	1
Administration - Clerical	3.5 kg	B	Carbon Dioxide	1
Multipurpose Space – BD/CD/ED Stage (near stage control cupboard)	5.0 kg	E	Carbon Dioxide	1
Movement Studio	5.0 kg	E	Carbon Dioxide	1
Control Room (Performing Arts) (Movement Complex)	3.5 kg	E	Carbon Dioxide	1
Control Room (Performing Arts)	3.5 kg	E	Carbon Dioxide	1
Darkroom	3.5 kg	B	Carbon Dioxide	1
Serviced Learning Space	3.5 kg	B	Carbon Dioxide	1
Multimedia Workshop, Multimedia Studio	3.5 kg	B	Carbon Dioxide	1
Computer Learning Space	3.5 kg	E	Carbon Dioxide	1
Science Preparation	3.5 kg	B	Carbon Dioxide	1
General Learning Space – with Science Demonstration Bench	3.5 kg	B	Carbon Dioxide	1
Science Laboratory	3.5 kg	B	Carbon Dioxide	1
Chemical Store	3.5 kg	B	Carbon Dioxide	1 Note: not within chemical store

Location	Size	Class of Fire	Type of extinguisher	Number
General Learning Space – with Kitchen Demonstration Bench	3.5 kg	B	Carbon Dioxide	1
Wood + Metal Workshop	3.5 kg	B	Carbon Dioxide	1
Materials Workshop	3.5 kg	B	Carbon Dioxide	1
Materials Learning Space	3.5 kg	B	Carbon Dioxide	1
Kitchen – Domestic Kitchen – Semi Commercial	3.5 kg	B	Carbon Dioxide	1
Outdoor Covered Workshop	2.5 kg	A B(E) min	Dry Chem Powder	1
Shed Workshop	2.5 kg	A B(E) min	Dry Chem Powder	1
Visual Arts Workshop	3.5 kg	B	Carbon Dioxide	1
Canteen	3.5 kg	B	Carbon Dioxide	1
Cleaning Supplies Store	3.5 kg	B	Carbon Dioxide	1
Bulk Store	3.5 kg	B	Carbon Dioxide	1
Garden Store	3.5 kg	B	Carbon Dioxide	1
Gymnasium (when no fhr) Gymnasium - Extension Gymnasium - Half Court	9 ltr	A	Air / Water	2
Stairways	9 ltr	A	Air / Water	1 each level

“Deemed-To -Satisfy” Solutions

GUIDE NOTE: Refer [00 PLANNING AND DESIGN/0001C DESIGN CHECKLIST - BUILDING REGULATIONS](#)

Refer to the NCC requirements for portable fire extinguishers in EDB and Electrical Switch rooms and portable fire extinguishers in lift motor rooms. Note - Lift installations are subject to WorkCover Authority approval and their requirements are to be determined in each instance.

“Alternative” Building Solutions

Homebases for ED (emotionally disabled) /BD (behaviour disability) students:

-
- Where a fire extinguisher is required, this is to be located in the nearest secure store to that space.
 - The door is to have appropriate signage and the key is to be held by the assigned class teacher

Modular Design Range (MDR) Buildings:

- One portable fire extinguisher appropriate to a Class A fire risk, is to be located at the egress point of one of the Practical Activities Areas per pair of Home Bases.

Dust Extraction Space in secondary school wood workshop:

- Install suitable School Security Unit Alarm system to alert the NSW Fire Brigade to attend, should a fire occur.
- Signage to advise school staff not to open Dust Extraction Space doors if a fire occurs.

02.2 Blankets

Fire blankets

GUIDE NOTE: Delete subclause “selection and location” in NATSPEC Building Template/ Worksection and replace with the following

- Selection and location: To AS/NZS 3504
- Provide fire blankets as shown in the “Fire blankets schedule”.

GUIDE NOTE: Add the following to subclause “fire blankets” in NATSPEC Building Template / Worksection.

- Size: 1820 x 1220mm.
- Material: Flameproof fibreglass to relevant SAA Code.
- Installation: Verify the location of each fire blanket with the Principal’s Authorised Person / Principal’s Representative prior to installation.
- Fixing: In accordance with manufacturer's direction 1500mm to centre of hook or handle, mounted over extinguisher.

GUIDE NOTE: Delete “Fire Blanket Schedule” in NATSPEC Building Template/ Worksection and replace with the following schedule.

GUIDE NOTE: Refer to [00 PLANNING AND DESIGN/0001C DESIGN CHECKLIST - BUILDING REGULATIONS](#)

Table 03: Fire blankets schedule

Location	Number
Staff Room (PS)	1
Staff Lounge (HS)	1
Staff, Preparation Printing (HS)	1
Communal / MPC Kitchen if provided (PS + HS)	1
Dark Room	1
Practical Activities Area (PS) (Craft and/or cooking Area)	1
Services Learning Space	1
Multi Media Workshop	1
Science Preparation	1
Science Laboratory LS	1 each LS
General Learning Space (Science Learning Unit)	1 each LU
Science Laboratory LU	1 each LU
General Learning Space – Type 6	1 each LU
Materials Workshop – Type 2	1 each LU
Materials Workshop – Type 3	1 each LU
Materials Learning Space – Type 1	1 each LU
Kitchen – Type 1, 2 and 3	1 each LU
Visual Arts Workshop	1
Outdoor Workshop	1
Canteen (PS+HS)	1

03 Execution

As per current NATSPEC.

04 Selections

As per current NATSPEC.