

SCALE 12 MOD FIRE STATIONS

1 This scale is to be read in conjunction with Scales 1, 15, 40, 45 and 47. It applies to the provision of fire stations on MOD establishments. On airfields it includes provision for crash vehicles.

2 All stations are to have paved access, at least 5 metres wide, to allow for high acceleration departures to the road and/or taxiway. The forecourt is to be clearly marked to prevent use by non-emergency vehicles.

3 Airfield fire stations should be sited so as to have a clear view of the main runway and its approaches as well as having ready access to the technical and domestic sites without infringing the runways. Noise in excess of 55dB(A) is to be reduced by double glazing and other acoustic insulation in the control room, offices and crew room.

4 A bay will be provided for each domestic fire fighting and crash vehicle. The vehicle bays, positioned side by side and built on an open plan, will form the nucleus of the station. The vehicle exits will form a common line with the front of the building. The changing/locker room, drying room, showers and toilets should be close together with no direct access to the crew room. All ancillary accommodation is to have direct access to the vehicle bays through self-closing doors designed to swing both ways.

5 Emergency lighting is to be provided and requirements are to be agreed at project brief stage. Emergency power supplies are required for communications, alarms, and vehicle snatch plug systems. Refer to Scale 1 for fire and other alarms.

6 - 20 Spare

Accommodation	Area	M & E Services	Planning Notes, Special Fittings, etc
(a)	(b)	(c)	(d)
21 Vehicle Bays	For domestic fire fighting vehicles, area to be calculated at 2.75 times the plan area of vehicles. For emergency vehicles, 2.75 times the plan area of the largest vehicle in service.	<p>Illumination - 175 lux. Electric Power - 12 and 24 volt socket outlets as required. Electrical snatch plugs and earth leakage units with earth monitoring to connect vehicle heater and battery charger to mains. One per fire vehicle to be provided. Two 13A double socket outlets per bay. Heating - 13.0°C.</p>	Adequate natural light. Sliding/folding side opening metal doors, with rapid opening by motor or counter-weight, to give a clear opening of 3.8m x 3.8m. Where doors are not provided to the back and front of the bays, exhaust extraction and adjustable vehicle wheel stops are to be provided. Internal bay height 4.0m. The bay floor to have a non-slip finish and is to slope forwards to permit drainage into a common gulley across the bay front. Bench with shelf underneath as required.

(a)	(b)	(c)	(d)
22 Control Room	14.0m ²	<p>Illumination - 350 lux. Electric Power - Two 13A double socket outlets. Power supplies for control equipment as required. Heating - 18.5⁰C. Ventilation - Mechanical ventilation will be required where fixed glazing is installed for noise reduction purposes.</p>	<p>To adjoin vehicle bays with a window overlooking them. Purpose built control console fitted with operational and administrative communications, to include alarm bell, selective lighting control (to corridors and dormitory) and public address system. On Airfield stations, observation window projecting 1.0m in front of the building line to give 180⁰ field of view of runways and taxiways, with minimum corner supports. (It may be necessary for control room to be elevated to comply with this requirement and those of Serial 3). The effects of glare and direct sunlight are to be minimised, e.g. by tinted glass.</p>

MOD FIRE STATIONS (contd)

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(a)	(b)	(c)	(d)
23 Office Oi/c Station			Refer to Scale 45. Location and office requirements to be determined at project brief stage.
24 Office/Bedroom Sub-Officer i/c Watch	Additional 5.0m ² for bed space.		Refer to Scale 45. Clothes hooks and pinboards as required.
25 Fire Prevention Office			Refer to Scale 45. Navy and Army requirements to be justified at project brief stage.
26 Drying Room	0.4m ² per firefighter on establishment. Minimum area 6.0m ²	Illumination - 175 lux. Electric Power - One 13A double socket outlet. Heating and Ventilation - Heating, circulation and extract fans, all to requirements of articles to be dried.	Access to changing/ locker room (See Serial 27). Hanging rails as required with 2 captive hangars per firefighter for 75% of the establishment. Floor gulleys are required.
27 Changing/Locker Room			Refer to Scale 40. Full length clothing lockers (Not Works supply) NSN 7125.99.138.2332.

MOD FIRE STATIONS (contd)

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(a)	(b)	(c)	(d)
<p>28a Male Ablution Area. Number of personnel on watch plus day staff 1 - 6 7 - 12 13 - 20</p>	<p>To be provided out of area addition Washbasins Showers 2 1 2 2 3 3</p>	<p>Illumination - 125 lux Supplementary lighting with shaver socket over each mirror. Heating - 16.0°C. Ventilation - Where adequate natural ventilation is not available, mechanical extraction is to be provided. Water Supply - Hot cold and drinking.</p>	<p>Ablution and toilet facilities are to be in separate rooms. Washbasins, in ablution area, with splashback, mirror, shelf, towel rail and clothes hook to each washbasin. One fixed seat, 2 clothes hooks, soap holder and towel rail to each shower. Curtain rails to showers. Showers to be separately partitioned. Drinking water point. Floor gulleys are required.</p>
<p>b Female Ablution Area</p>	<p>To be provided out of area addition 1 Washbasin 1 Shower</p>		<p>See Serial 28a.</p>
<p>28c Male Toilet Area Number of personnel on watch plus day staff 1 - 6 7 - 12 13 - 20</p>	<p>To be provided out of area addition WCs Urinals 1 1 2 2 3 3 One washbasin (small hand rinse) per toilet area.</p>		<p>Refer to Scale 1 Annex B.</p>

MOD FIRE STATIONS (contd)

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(a)	(b)	(c)	(d)
28d Female Toilet Area	To be provided out of area addition 1 WC and 1 washbasin.		Refer to Scale 1 Annex B.
29 Standby Room			Refer to Scale 47.
30 Dormitory	5.5m ² per duty crew member (excluding Sub-Officer i/c watch).	Illumination - 125 lux. Provision for subdued lighting at night (See also Serial 22 for lighting controls) Electric Power - Minimum of two 13A double socket outlets. Heating - 16.0 ⁰ C.	Clothes hooks as required.
31 Classroom	3.0m ² per duty crew member.	Illumination - 350 lux. Electric Power - minimum of four 13A double socket outlets located for audio-visual aids. Heating - 18.5 ⁰ C.	Additional requirements to be specified at project brief stage, using Scale 15 as appropriate. Chalkboard/Whiteboard.

MOD FIRE STATIONS (contd)

JSP 315

(a)	(b)	(c)	(d)
<p>32 Store Room</p>	<p>Non-airfield fire stations No of Bays m² 2 (min) 10 3 16 4 20 Add 50% when foam is stored</p> <p>Airfield fire stations No of Bays m² 1 10 2 16 3 or more 30 Add 10m² where foam is stored and at Category 5 and above stations add 15m² where foam is stored.</p>	<p>Illumination - 100 lux. Electric Power - One 13A double socket outlet. Heating - 13.0⁰C. Water Supply - Hot and cold (if required).</p>	<p>May be divided into separate stores as required. Adjustable and boltless system of metal racking and shelving as required. Purpose built metal hose racking is also to be provided. Double leaf access door to wash down area. Additional storage requirements to be specified at project brief stage.</p>
<p>33 BA (Breathing Apparatus) Servicing Room</p>	<p>6.5m²</p>	<p>Illumination - 350 lux Additional task lighting as required. Electric Power - Bench lighting and socket outlets as required. Heating - 16.0⁰C. Water Supply - Hot and cold.</p>	<p>To be sited adjacent to store room (serial 32). To be a 'Controlled Area' constructed in accordance with BS 5295 Part 1. Work surface, racks and bins as required. Low level sink for testing cylinders, cleaning masks etc.</p>

MOD FIRE STATIONS (contd)

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(a)	(b)	(c)	(d)
34 Annexe for Compressor		<p>Illumination - 125 lux. Electric Power - One 13A double socket outlet, one extra low voltage socket outlet and supply for compressor. Compressed Air - Connection pipes to BA room.</p>	To be of lean-to construction and sited adjacent to Serial 33. Size to be determined at project brief stage, related to size of compressor. With external access.
35 Workshop	<p>1 or 2 Vehicle Bays - 10m² over 2 Vehicle Bays - 12m²</p>	<p>Illumination - 350 lux. Power Supply - Bench lighting and socket outlets as required. Heating - 16.0⁰C. Water Supply - Hot and cold.</p>	Workbench, tool rack 1.0m x 1.0m. Sink.
36 Flammable Liquids Store	As specified in the project brief.		Where provided to be an external fire resistant cabinet. Construction standards are in JSP 317.
37 Cleaners' Room			Refer to Scale 1 Annex B.
38 Calorifier Room (if required)			Refer to Scale 1 Annex B.

MOD FIRE STATIONS (contd)

JSP 315

(a)	(b)	(c)	(d)
<p>39 Fire Training Area a Airfield stations b non-airfield stations</p>	<p>To accommodate unit based type of aircraft. 50.0m²</p>	<p>As per PSA/DOE Plans FTA1 and FTA2 dated Jan 88. 1 Fire Hydrant.</p>	<p>Area should be such that a large tray fire can be accommodated for vehicle fire-fighting with additional small tray fire area for training unit personnel. Fuel interceptor to drain. Bunding to training and fuel drum storage areas is required to prevent pollution hazard.</p>

(a)	(b)	(c)	(d)
<p>40 Yard with:</p> <p>a Training Area</p> <p>b Drill Tower</p> <p>c BA training complex</p> <p>These facilities may need to be sited away from the fire station to satisfy airfield safety requirements.</p>	<p>a 27.0m x 30.0m</p> <p>b Tower 12.0m high 3 storey</p> <p>c BA Training smoke chamber 60.0m² minimum.</p>	<p>Illumination - as required, to include front apron. High level flood lighting to tower (weather proofed). Protected bulkhead type lighting (max height 1350mm) throughout with external switches.</p> <p>Power Supply - Two 13A power points in smoke chamber protected from water/heat /smoke, external switches.</p> <p>Extractor fan(s) in smoke chamber with external switch (to achieve extraction of smoke in 1 minute).</p> <p>Electric heating/humidifier in smoke chamber; 38^oC at 70% to 90% humidity.</p> <p>Voice-box unit (operable from outside only) for supervision of trainees.</p>	<p>Training area to be justified at project brief stage.</p> <p>a - Adequate drainage and mud traps. Water hydrant to replenish fire trucks and to test fire equipment. Dummy water hydrant for practice if required. Tap for wash hose. Flow level trough for cleaning hose in washdown area. If required, base for 2300 litre tank.</p> <p>b Static anchorage at head of tower for Everest safety line. To comply with Home Office Fire Service Circular No 3/1979. Where practical radio aerial array to be located on drill tower.</p>
