

730-10 FIRE STATION (sq.m./SF)

This space criteria applies to fire stations with structural and brush fire mission missions and should be used as a guideline for planning fire stations with air crash rescue operations (CCN 141-20) and combined structural fire and rescue operations (CCN 141-25). Fire stations consist of an alarm communication center, training facilities, living quarters, recreation/dining facilities, administration offices, an equipment maintenance area, and an apparatus room.

The number of fire stations required on a base will be determined by the response time. This analysis will be provided by the Area Fire Marshal's Office (LANTNAVFACENGCOM Code BE4).

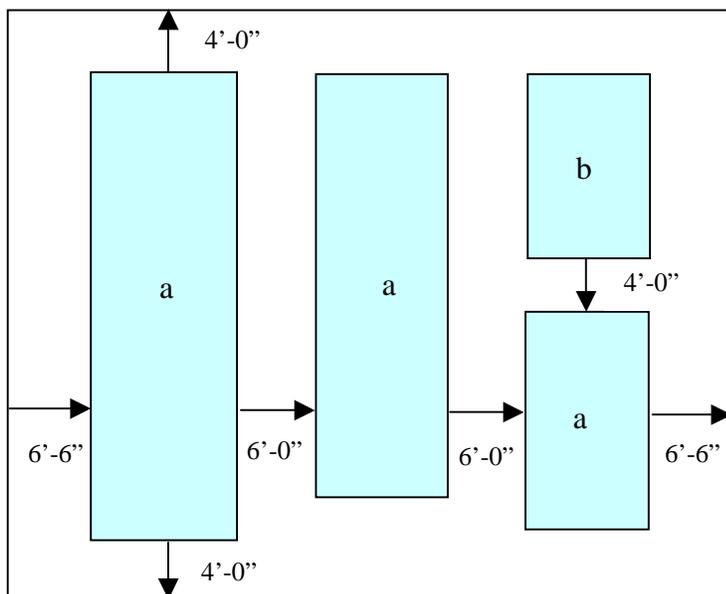
SPACE ALLOWANCE

Space allowances for 1, 2 and 3 engine-company fire stations are determined according to the planning criteria presented in Tables 730-10A and 730-10B. For 4 or more engine-company fire stations, space analysis must be performed to determine which individual components must be increased to account for the additional crew and/or administrative personnel.

Apparatus rooms shall be sized according to the fire fighting apparatus to be housed within the station. See the Apparatus Room Layout diagram to determine size. For new construction, apparatus bays shall be sited to allow drive through access for firefighting apparatus.

Table 730-10B contains items that may be added to any fire station. These items are additive to the basic station allowance and must be individually justified. Any additional apparatus equipment from Table 730-10B should be included in determining the size of the apparatus room.

Apparatus Room Layout



a. Firefighting apparatus
b. Command Vehicle

Table 730-10A FIRE STATION

Number of Engine Companies	HEADQUARTER FIRE STATION						SATELLITE FIRE STATION					
	1		2		3		1		2		3	
	11		21		32		11		21		32	
Total Crew Force	5		10		14		5		10		14	
Number of Crew Bedrooms	Net Area		Net Area		Net Area		Net Area		Net Area		Net Area	
COMPONENT	m ²	SF	m ²	SF	m ²	SF	m ²	SF	m ²	SF	m ²	SF
Alarm Communication Center												
Communications Control Room	19	200	19	200	37	400	19	200	19	200	37	400
Kitchenette	0	0	3	35	3	35	0	0	3	35	3	35
Private Rest Room	4	43	4	43	4	43	4	43	4	43	4	43
Telecommunications/Computer Room ¹	5	50	5	50	19	200	5	50	5	50	19	200
Subtotal Alarm Communications Center	28	293	31	328	63	678	28	293	31	328	63	678
Training Facilities												
Training Room ²	0	0	32	340	39	420	0	0	32	340	39	420
Asst. Chief of Training Office	0	0	0	0	12	130	0	0	0	0	0	0
Testing Room	0	0	9	100	9	100	0	0	9	100	9	100
Tech Library/Audiovisual Storage	7	80	9	100	14	150	7	80	9	100	14	150
Physical Fitness	20	220	30	320	45	480	20	220	30	320	45	480
Subtotal Training Facilities	27	300	80	860	119	1,280	27	300	80	860	107	1,150
Living Quarters												
Private Bedrooms @ 110SF/BR ³	51	550	102	1,100	143	1,540	51	550	102	1,100	143	1,540
Restrooms/Shower	28	300	35	375	42	450	28	300	35	375	42	450
Personal Lockers	13	140	23	250	34	370	13	140	23	250	34	370
Laundry	9	100	14	150	15	165	9	100	14	150	15	165
Subtotal Living Quarters	101	1,090	174	1,875	234	2,525	101	1,090	174	1,875	234	2,525
Recreation/Dining												
Television Room	23	250	28	300	33	350	23	250	28	300	33	350
Day Room ²	34	370	26	275	28	300	34	370	26	275	28	300
Vending	2	20	3	30	4	40	2	20	3	30	4	40
Kitchen	15	160	17	180	19	200	15	160	17	180	19	200
Kitchen Storage	4	40	4	45	5	50	4	40	4	45	5	50
Serving Line	7	80	9	100	9	100	7	80	9	100	9	100
Dining Area	15	160	23	250	28	300	15	160	23	250	28	300
Subtotal Recreation/Dining Areas	100	1,080	110	1,180	126	1,340	100	1,080	110	1,180	126	1,340
Administration												
Vestibule	5	50	7	80	7	80	5	50	5	50	7	80
Entrance/Reception	9	100	14	150	19	200	9	100	9	100	19	200
Fire Chief Office	14	150	14	150	14	150	0	0	0	0	0	0
Fire Chief Conference Room	12	130	12	130	12	130	0	0	0	0	0	0
Fire Chief's Bedroom	12	130	12	130	12	130	0	0	0	0	0	0
Asst. Chief Office	0	0	12	130	12	130	0	0	12	130	12	130
Asst. Chief's Bedroom	0	0	12	130	12	130	0	0	12	130	12	130
Supervisor Bedroom	0	0	0	0	0	0	12	130	0	0	0	0
Supervisor Office	0	0	0	0	0	0	12	130	0	0	0	0
Rest Room	9	100	14	150	14	150	9	100	9	100	9	100
Admin Staff Office	11	120	11	120	11	120	0	0	0	0	0	0
Administrative Storage	3	30	4	40	4	40	3	30	3	30	3	30
Copy	5	50	5	50	5	50	5	50	5	50	5	50
Coats	1	10	3	30	3	30	1	10	1	10	1	10
Subtotal Administration Areas	81	870	120	1,290	125	1,340	56	600	56	600	68	730

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Table 730-10A

FIRE STATION (Cont'd)

Number of Engine Companies	HEADQUARTER FIRE STATION						SATELLITE FIRE STATION					
	1		2		3		1		2		3	
	Total Crew Force		Total Crew Force		Total Crew Force		Total Crew Force		Total Crew Force		Total Crew Force	
Total Crew Force	11		21		32		11		21		32	
Number of Crew Bedrooms	5		10		14		5		10		14	
COMPONENT	Net Area		Net Area		Net Area		Net Area		Net Area		Net Area	
	m ²	SF	m ²	SF	m ²	SF	m ²	SF	m ²	SF	m ²	SF
Maintenance, Repair, Storage and Support												
Fire Fighting Agent Storage	17	180	28	300	28	300	17	180	28	300	28	300
Hose Storage and Drying	16	170	16	170	23	250	0	0	16	170	23	250
Fire Extinguisher Maint./Repair and Storage	19	200	28	300	37	400	0	0	28	300	37	400
SCBA Maintenance and Repair	19	200	33	350	48	520	0	0	0	0	48	520
Protective Clothing Lockers ⁴	9	100	15	160	20	220	9	100	20	220	32	340
Protective Clothing Laundry	11	120	33	350	33	350	11	120	33	350	33	350
Disinfecting Facilities (included w/ protective clothing laundry room)	14	150	14	150	14	150	0	0	14	150	14	150
Outdoor Tire Storage ⁵	(10)	(110)	(15)	(160)	(20)	(220)	(10)	(110)	(15)	(160)	(20)	(220)
Outdoor Fire Extinguisher Storage ⁵	(19)	(200)	(23)	(250)	(46)	(500)	(19)	(200)	(23)	(250)	(46)	(500)
Outdoor Mechanical Equipment Enclosure ⁵	(20)	(210)	(33)	(355)	(47)	(510)	(20)	(210)	(33)	(355)	(47)	(510)
General Supply	18	190	22	235	26	280	18	190	22	235	26	280
Medical Storage	6	60	10	110	20	220	0	0	10	110	20	220
Janitor Closet	3	30	4	40	5	50	3	30	5	50	5	50
Mech./Elect./Telephone/Compressor Room	14	150	19	200	23	250	14	150	19	200	23	250
Subtotal Maintenance, Repair, Storage & Support	146	1,550	222	2,365	277	2,990	72	770	195	2,085	289	3,110
Apparatus Room												
Bays plus Command Vehicle ⁶	170	1,825	219	2,355	219	2,355	170	1,825	219	2,355	219	2,355
Aerial Ladder ⁷	0	0	0	0	65	700	0	0	0	0	65	700
Subtotal Apparatus Room	170	1,825	219	2,355	284	3,055	170	1,825	219	2,355	284	3,055
Subtotal Excluding Apparatus Room	483	5,183	737	7,898	944	10,153	384	4,133	646	6,928	887	9,533
Apparatus Room	170	1,825	219	2,355	284	3,055	170	1,825	219	2,355	284	3,055
Net to Gross (25% of Subtotal Excluding Apparatus Room)	121	1,296	184	1,975	236	2,538	96	1,033	162	1,732	222	2,383
Net to Gross (7% of Apparatus Room)	12	128	15	165	20	214	12	128	15	165	20	214
Total	786	8,432	1,155	12,393	1,484	15,960	662	7,119	1,042	11,180	1,413	15,185

Notes:

1. Telecommunication/Computer Room includes space for an UPS system.
2. For one-company stations, no training room is provided. An additional 11SM (120SF) is provided in the day room.
3. Adjust number of bedrooms as required to account for individual circumstances.
4. Space for protective clothing lockers is included as a separate room within the Maintenance, Repair, Storage and Support component. If locker space is not included in this component, it can be added to the apparatus bay component.
5. Outdoor area not included in total.
6. Minimum size for apparatus room; size to be determined using the layout for Apparatus Rooms.
7. Add/subtract space for aerial ladder as required using the layout for Apparatus Rooms.

Table 730-10B ADDITIVE FUNCTIONS

FUNCTION	m ²	SF
Assistant Chief Fire Prevention Office ¹	12	130
Vehicle Maintenance Office ²	14	150
Vehicle Maintenance Parts and Tools ²	40	430
Deputy Chief's Office ³	12	130
Deputy Chief's Bunkroom ³	12	130
Ambulance Bay	5	5
Ambulance Admin Space	8	90
Ambulance Storage	9	100
Ambulance Bunks (3 personnel/ambulance)	31	330
Fire Prevention Bureau	4	4
Hazardous Waste Vehicle	5	5
Hazardous Waste Storage	14	150
Hazardous Waste Bunks (3 personnel/vehicle)	31	330
Specialized Equipment (foam unit, brush truck, etc.)	5	5
Heavy Rescue Vehicle	5	5
Boat/Trailer Bay	5	5
Boat Equipment Storage	9	100
Disaster Preparedness Admin	8	90
Disaster Preparedness Storage	9	100
Emergency Response Center	19	200

1. Authorized where there are more than 4 inspectors.
2. Authorized only where PWC does not maintain fire/rescue vehicles.
3. Authorized where there are 4 or more engine Companies.
4. Size according to CCN 610-10 criteria.
5. Determined by space analysis.

730 11 FIRE HOSE DRYING STRUCTURE (EA)

730 12 FIRE CART/HOSE DRYING FACILITY (sq.m./SF)

Category Code 730 11 and 12 are for inventory purposes only in cases where these facilities are provided in a separate building or structure. For planning purposes, they are to be considered as part of the fire station, Code 730 10.