

## 740 54 Recreation Center (sq.m./SF)

Project Review: Base MWR representatives, EFD, NAVFAC HQ, BUPERS (Pers-656D)

Design Criteria: *(Military Handbook is not currently available)*

1. **GENERAL.** See General Notes to 740 series category codes for General Instructions regarding facility allowance planning procedures.
2. **DEFINITION.** A Recreation Center is designed to serve primarily younger (ages 18-24) enlisted personnel (mostly E1-E6), particularly those living in Bachelor Enlisted Quarters. Rec. Centers offer patrons programmed activities staffed with trained personnel. Activities to be accommodated in the Rec. Center include: "hanging out", informal group activities, tournaments and competitions, special events, theme activities for holidays, music practice and "jam" sessions, talent shows, movie marathons, game show nights, demonstrations, classes, lectures, board games, cards, television, trivia contests and special programs for women. Some basic support facilities such as a kitchen and a telephone bank (with private booths and a waiting area) may be included for the convenience of patrons, particularly in locations where such services may not otherwise be available.

Each base where a Rec. Center is located should be individually analyzed to understand its specific situation, and determine the mix of Rec. Center functions most appropriate to meet local needs. The space allowance should be based on the development of a justifiable program of functions, capacities and sizes, comparable to the Sample Space Programs contained in this criteria section.

3. **RELATED FACILITIES.** Rec. Centers should be located within convenient walking distance of Bachelor Enlisted Quarters/dormitory facilities.

Consideration should also be given to collocating the Rec. Center with related facilities in order to (i) take advantage of potential savings in capital and operating costs (for example, consolidation of administrative and support spaces, site development and staffing), (ii) provide users with the increased convenience of clustered facilities, and (iii) take advantage of synergies between facilities. Such related facilities include:

- 740 28 Amusement Center
- 740 40 Bowling Center
- 740 43 Gymnasium
- 740 64 Enlisted Club.

4. **SPACE ALLOWANCE.** Recreation Center facilities are sized on the basis of the E1-E6 population at each installation. The maximum facility allowance for Rec. Centers is according to sizing criteria presented in Table 740 54A.

**TABLE 740 54A  
SPACE ALLOWANCE FOR RECREATION CENTER**

<u>Note</u>	<u>Population Category</u>	<u>Population (per Base Loading)</u>	<u>Maximum Gross Area</u>	
			<u>sq.m.</u>	<u>SF</u>
(1), (2)	E1-E6	less than 1,000	0	0
(2)	E1-E6	2,000 to 5,000	613	6,600
(2)	E1-E6	6,000 to 15,000	1,010	10,900
(2)	E1-E6	16,000 and over	1,480	15,900

**Notes for Table 740 54A:**

- (1) For installations with an E1-E6 population of 1,000 or less, the base Community Center or other MWR facilities should be used to accommodate Recreation Center functions.
- (2) Population numbers should be consistent with projected base loading data. For facility planning purposes at installations with deployable forces, the active duty demand population is comprised of all the non-deployable population, plus two-thirds of the deployable population, to reflect time away on deployment. However, calculation of the deployable population may be adjusted based on the actual deployment experience at individual installations. Round-off population up or down to the nearest thousand.

Location is an important factor in the utilization of Rec. Centers. Since their primary users are younger enlisted personnel, many of whom may not have access to personal vehicles, Rec. Centers should be conveniently located within a 5-10 minute walking radius of the majority of BEQ's (Bachelor Enlisted Quarters).

The local Command has the option of providing the total space allowance as one Rec. Center or distributing the area among several smaller facilities. The latter approach may be appropriate on larger bases with multiple concentrations of E1-E6 residential populations.

At installations with smaller populations, Rec. Center functions may be accommodated in a Community Center which serves both younger single sailors and older personnel with families. Facility planning criteria for Community Centers are addressed separately under Category Code 714 32.

5. **ILLUSTRATIVE SPACE PROGRAMS.** Space programs for small, medium and large Recreation Centers are presented to illustrate possible breakdowns of the overall space allowances into their primary functional components, with their respective sizes and capacities. These space programs are for illustrative purposes only.
6. **SAMPLE LAYOUT DIAGRAM.** A layout diagram is presented for a medium size Recreation Center facility. This diagram is an example of the composition of such a facility in terms of its functional components, their respective sizes and adjacencies. The layout diagram is for illustrative purposes only.

# RECREATION CENTER (Category Code 740 54)

## Sample Space Programs

Functional Component/ Sub-Component	Space Allocation Standard		SMALL SIZE			MEDIUM SIZE			LARGE SIZE		
			Capacity	let sq.m.	Net sq.m.	Capacity	let sq.m.	Net Area	Capacity	let sq.m.	Net sq.m.
<b>ACTIVITY AREA</b>											
Multipurpose Area					83			165			275
Function Room	1	Net sq.m. per seat	75	75		150	150		250	250	
Furniture Storage Area	10%	Net sq.m. function room		8			15			25	
Entertainment Area					39			78			126
TV/Music Lounge	2	Net sq.m. per seat	15	30		30	60		45	90	
Music Room	9	Net sq.m. per room	1	9		2	18		4	36	
Game Room					164			268			408
Billiard Tables	40	Net sq.m. per table	2	80		4	160		6	240	
Ping Pong Tables	36	Net sq.m. per table	1	36		1	36		2	72	
Video Games	2	Net sq.m. per video ga	24	48		36	72		48	96	
Quiet/Study Room	1	Net sq.m. per seat	10	10	10	20	20	20	30	30	30
Classroom	1	Net sq.m. per seat	15	15	15	20	20	20	30	30	30
Kitchen					24			48			72
Seating Area	1	Net sq.m. per seat	12	12		24	24		36	36	
Food Preparation/Storage Area	100%	Net sq.m. seating area		12			24			36	
<b>SUB-TOTAL ACTIVITY AREA</b>					<b>335</b>			<b>599</b>			<b>941</b>
<b>ACTIVITY SUPPORT</b>											
Toilets (male and female)					48			60			60
Water Closets/Urinals	3	Net sq.m. per fixture	6	18		8	24		8	24	
Lavatories	3	Net sq.m. per fixture	6	18		8	24		8	24	
Handicap Toilets	6	Net sq.m. per toilet	2	12		2	12		2	12	
Vending Machines	2	Net sq.m. per machine	2	4	4	4	8	8	4	8	8
Administration					36			53			71
Control Desk/ITT Counter	4	Net sq.m. per station	2	8		3	12		4	16	
Administrative Office	11	Net sq.m. per office	2	22		3	33		4	44	
Office Storage Area	25%	total Net sq.m. office		6			8			11	
<b>SUB-TOTAL ACTIVITY SUPPORT</b>					<b>88</b>			<b>121</b>			<b>139</b>
<b>BUILDING SUPPORT</b>					<b>135</b>			<b>202</b>			<b>259</b>
Entrance/Lobby/Circulation/ Housekeeping Supplies/Janitor's Closet/ Structure/Partitions	15-19%	total Net sq.m. for Activity Area and Activity Support		80			122			162	
Mechanical/Electrical/Communication Equipment Space	9-13%	total Net sq.m. for Activity Area and Activity Support		55			79			97	
<b>TOTAL GROSS AREA (sq.m.)</b>					<b>557</b>			<b>922</b>			<b>1,339</b>
<b>Outdoor Patio</b>	1	Net sq.m. per seat	12	12	12	24	24	24	36	36	36

## **740 55 YOUTH CENTER (SQ.M./SF)**

Project Review: EFD, NAVFAC HQ, BUPERS (Pers-656D)  
Commandant of the Marine Corps (CMC) code LFL  
Design Criteria: *(Military Handbook is currently under development)*

1. **GENERAL.** See introduction to 740 series category codes for General Instructions regarding facility allowance planning procedures.
2. **DEFINITION.** Youth Centers provide age-appropriate recreation activities that promote the psychological, social, and physical well-being of military and other eligible dependent youth ages 6 to 17 years. Programs accommodated may include: youth sports and physical fitness, social recreation, recreational skills development, personal development, teen activities, before and after school programs, day camp, special events and trips.
3. **RELATED FACILITIES.** The location of Youth Centers should be determined primarily for proximity to the family housing areas served - preferably accessible by the youth within fifteen minutes walk or bicycle ride. Collocation of Youth Centers with other MWR facilities is recommended, in particular with youth playing fields, outdoor playing courts, and playgrounds. Consideration should be given to potential savings in Youth Center space requirements for specific Activity Areas, if other MWR facilities provide the same functions conveniently accessible and available for use by the youth.
4. **DEMAND.** The primary functional components of a Youth Center -- Multipurpose Gymnasium Court, Social Recreation Spaces including lounges, snack bar and games areas, Programmed Activities Classrooms, and Before/After School Program Home Base -- are sized on the basis of the peak period usage demand for the specific component at each installation, as follows:
  - a) Determine the total youth population of the anticipated service area of the proposed facility, based on school enrollment data. Youth population is subdivided into two significant groups: Elementary (ages 6-12), and Senior (ages 13-17). If the total eligible youth population is less than 300, accommodate youth programs in a Recreation Building/Community Center, Category Code 740 54.
  - b) Calculate peak period demand by multiplying the population of each significant category by standard participation factors for each component, found in Tables 740 55A through 55G. Add the demand for all population categories to derive Total Demand for each functional component. Apply factors as directed in the Tables to determine the numbers of units required.
  - c) Multiply the number of units required for each functional component by space allocation factors in Table 740 55. Add net area for all components and add support area factors as directed in Table 740 55, to derive the Total Facility Allowance.
5. **SPACE ALLOWANCES.** Space allowances for Youth Centers are determined according to the planning criteria presented in Table 740 55 below. The total allowance for a facility is the sum total of the space allocations for each functional component. The number of units of each component required to meet the demand is obtained from the calculations in Tables 740 55A, 740 55B, 740 55C, 740 55D, 740 55E, 740 55F, and 740 55G.

**TABLE 740 55A  
YOUTH CENTER MULTIPURPOSE GYMNASIUM DEMAND CALCULATION**

<u>Note</u>	<u>Population Category</u>	<u>Population (school enrollment in service area)</u>	x	<u>Participation Factor</u>	=	<u>Peak Period Demand</u>
(1),(2)	Elementary	.....	x	.048	=	..... users
(1),(2)	Senior	.....	x	.200	=	_____ + ..... users
				<b>Total Demand</b>	=	..... users

For total demand of 75-175 users, provide one half-court unit  
For total demand of 176 users or higher, provide one full-court unit

**TABLE 740 55B  
YOUTH CENTER LOUNGES DEMAND CALCULATION**

<u>Note</u>	<u>Population Category</u>	<u>Population (school enrollment in service area)</u>	x	<u>Participation Factor</u>	=	<u>Peak Period Demand</u>
(1),(2)	Elementary	.....	x	.007	=	..... seats
(1),(2)	Senior	.....	x	.025	=	_____ + ..... seats
				<b>Total Demand (round to the nearest whole unit)</b>	=	..... seats

**TABLE 740 55C  
YOUTH CENTER SNACK BAR DEMAND CALCULATION**

<u>Note</u>	<u>Population Category</u>	<u>Population (school enrollment in service area)</u>	x	<u>Participation Factor</u>	=	<u>Peak Period Demand</u>
(1),(2)	Elementary	.....	x	.003	=	..... seats
(1),(2)	Senior	.....	x	.011	=	_____ + ..... seats
				<b>Total Demand (round to the nearest whole unit)</b>	=	..... seats

**TABLE 740 55D  
YOUTH CENTER VIDEO GAMES DEMAND CALCULATION**

<u>Note</u>	<u>Population Category</u>	<u>Population (school enrollment in service area)</u>	x	<u>Participation Factor</u>	=	<u>Peak Period Demand</u>
(1),(2)	Elementary	.....	x	.005	=	..... machines
(1),(2)	Senior	.....	x	.005	=	_____ + ..... machines
				<b>Total Demand (round to the nearest whole unit)</b>	=	..... machines

**YOUTH CENTER POOL/BILLIARDS DEMAND CALCULATION**

<u>Note</u>	<u>Population Category</u>	<u>Population (school enrollment in service area)</u>	x	<u>Participation Factor</u>	=	<u>Peak Period Demand</u>
(1),(2)	Elementary	.....	x	.0003	=	..... tables
(1),(2)	Senior	.....	x	.0015	=	..... + ..... tables
		Total Demand (round to the nearest whole unit)			=	..... tables

TABLE 740 55F

**YOUTH CENTER CLASSROOMS DEMAND CALCULATION**

<u>Note</u>	<u>Population Category</u>	<u>Population (school enrollment in service area)</u>	x	<u>Participation Factor</u>	=	<u>Peak Period Demand</u>
(1),(2)	Elementary	.....	x	.025	=	..... users
(1),(2)	Senior	.....	x	.039	=	..... + ..... users
		Total Demand (round to the nearest whole unit)			=	..... users

TABLE 740 55G

**YOUTH CENTER BEFORE/AFTER SCHOOL PROGRAM HOME BASE DEMAND CALCULATION**

<u>Note</u>	<u>Population Category</u>	<u>Population (school enrollment in service area)</u>	x	<u>Participation Factor</u>	=	<u>Peak Period Demand</u>
(1),(2)	Elementary	.....	x	.080	=	..... users
		Total Demand			=	..... users
		multiply for user demand accommodated in home base at one time			=	..... x .33
(3)		Total Home Base Capacity (round to the nearest whole unit)			=	..... users

Notes for Demand Calculations - Tables 740 55A through 55G:

- (1) The participation factors used in the tables are statistically adjusted to reflect differential effective usage patterns by the different population groups. These participation factors may be revised periodically by NAVFAC HQ and BUPERS, and the most current figures must be used in all demand calculations.
- (2) If more than one Youth Center is located at an installation and each serves a defined population area, demand should be calculated separately for each facility, based on its projected service area.
- (3) Although only one-third of program user population is accommodated in home base at one time, the number of lockers provided should equal the total projected before/after school user demand.

**TABLE 740 55  
SPACE ALLOWANCE FOR YOUTH CENTERS**

<u>Note</u>	<u>Table</u>	<u>Functional Component</u>	<u># Units</u>	x	<u>Space Allocation Factor</u>	=	<u>Total Net Area</u>	<u>Minimum Net Area sq.m.(SF)</u>
<b>ACTIVITY AREAS</b>								
(1)	A	Multipurpose Gymnasium	.....	x	353sq.m.(3800NSF) per half crt	=	+ .....	
		(incl. stage, storage)	.....	x	622sq.m.(6700NSF) per full crt	=	+ .....	
<b>Social Recreation</b>								
(2)	B	Lounges	.....	x	2sq.m.(20 NSF) per seat	=	+ .....	
	C	Snack Bar (incl. seating, kitchen, storage)	.....	x	2sq.m.(25 NSF) per seat	=	+ .....	37(400)
	D	Games Area	.....	x	3sq.m.(33 NSF) per machine	=	+ .....	
	E	Video Games	.....	x	28sq.m.(300 NSF) per table	=	+ .....	
		Pool/Billiards	.....	x	33sq.m.(360 NSF) per table	=	+ .....	
		Ping-pong	.....	x	33sq.m.(360 NSF) per table	=	+ .....	
<b>Programmed Activities</b>								
	F	Classrooms (incl. storage)	.....	x	2sq.m.(25 NSF) per user	=	+ .....	46(500)
(3)	G	Before/After School Program	.....	x	1sq.m.(15 NSF) per user	=	+ .....	
		Home Base (incl. lockers)	.....	x	1sq.m.(15 NSF) per user	=	+ .....	37(400)
<b>Subtotal Activity Areas</b>								
							.....	
<b>ACTIVITY SUPPORT AREAS</b>								
Toilets					4% x Subtotal		.....	
					Activity Areas	=	.....	
Administration/Equipment					6% x Subtotal		+ .....	
Issue/Laundry/Storage/Support					Activity Areas	=	.....	
					Subtotal Activity Support		.....	
					Areas	=	.....	
<b>BUILDING SUPPORT AREAS</b>								
Lobby/Circulation/Structure/Partitions					20% x (Subtotal		.....	
					Activity Areas + Subtotal	=	.....	
					Activity Support Areas)			
Mechanical/Electrical/Communication Equip. Space					5-10% x (Subtotal		+ .....	
					Activity Areas + Subtotal	=	.....	
					Activity Support Areas)			
(4),(5),(6)					<b>TOTAL FACILITY ALLOWANCE</b>	=	.....	<b>Gross Area</b>

**Notes for Space Allowance Table:**

- (1) Gymnasium equipment storage - minimum 19 net square meter (200 NSF), included in Space Allowance Factor for court units.
- (2) Lounges may include several spaces - television room, quiet room, teen lounge, etc. Separate space for teen lounge is recommended.
- (3) One home base is to be provided in each Youth Center.
- (4) Covered outdoor space (such as an entrance canopy or sheltered patio) is counted at 50% of its area, and must be included within the total gross area allowance for the facility.
- (5) Minimum size for Youth Center - if total eligible population is less than 300, accommodate youth programs in Recreation Center/Community Center, Category Code 740 54 / 714 32.
- (6) Maximum size for Youth Center - if total facility allowance exceeds 2,140 square meter (23,000 GSF), provide multiple facilities whose combined size equals the total allowance.

sq.m. = square meter

NSF = Net Square Feet

GSF = Gross Square Feet

Minimum NSF = Minimum space allowance to be provided for the particular function or activity.

6. **ILLUSTRATIVE SPACE PROGRAMS.** Three space programs for small, medium and large Youth Centers are presented to illustrate the application of the space allocation factors, and the range of spaces and capacities which may be included in a facility. These space programs are for illustrative purposes only.
  
7. **SAMPLE LAYOUT DIAGRAM.** A layout diagram is presented for a medium-size Youth Center. This diagram is an example of the composition of such a facility in terms of its functional components, their respective sizes and adjacencies. The layout diagram is for illustrative purposes only.

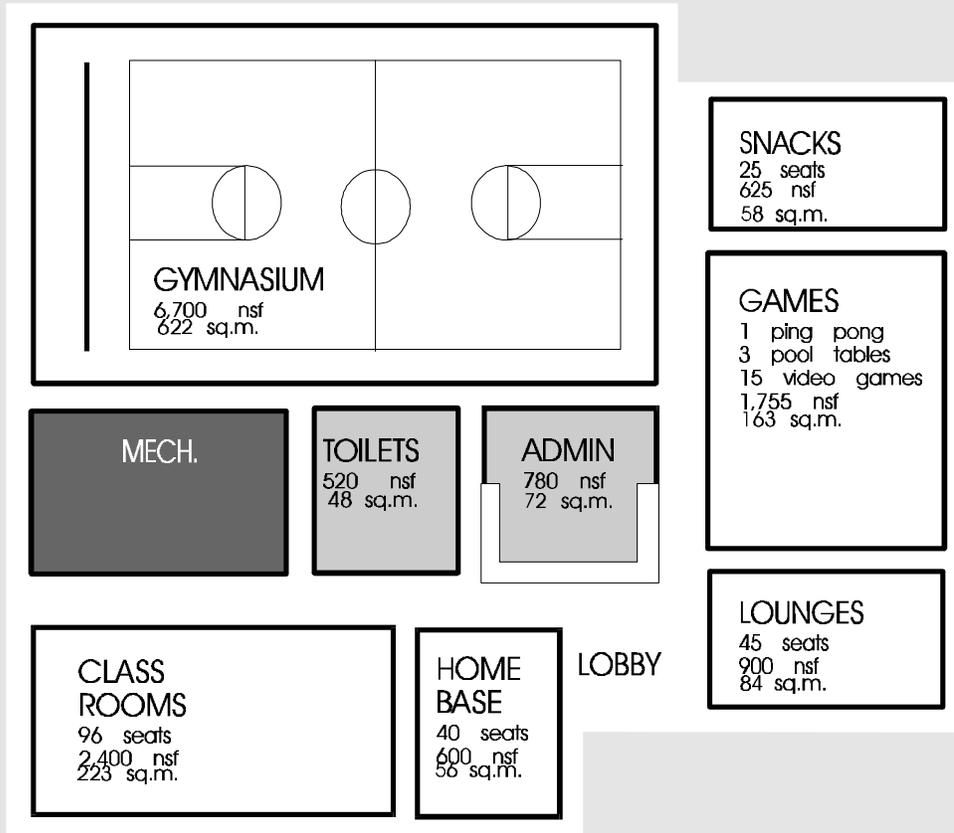
# YOUTH CENTER (Category Code 740 55)

## Sample Space Programs

Functional Components/ Sub-Components	Facility Size -- SMALL		Facility Size -- MEDIUM		Facility Size -- LARGE	
	Capacity	Net sq.m. Total Net sq.m.	Capacity	Net sq.m. Total Net sq.m.	Capacity	Net sq.m. Total Net sq.m.
<b>ACTIVITY AREAS</b>						
<b>MULTIPURPOSE GYMNASIUM</b>						
Court (including stage/platform, storage)	1	353	1	622	1	622
<b>SOCIAL RECREATION</b>						
Snack Bar (including seating, kitchen, storage)	16	32	25	50	36	72
Games Area:						
Video Games	8	24	15	45	22	66
Pool Tables	2	56	3	84	4	112
Ping-pong	1	33	1	33	2	66
Lounges	25	50	45	90	65	130
<b>PROGRAMMED ACTIVITIES</b>						
Classrooms (including storage)	60	120	96	192	140	280
<b>BEFORE/AFTER SCHOOL PROGRAM</b>						
Home Base	27	30	40	40	60	60
<b>Subtotal Activity Areas</b>		<b>698</b>		<b>1,156</b>		<b>1,408</b>
<b>ACTIVITY SUPPORT AREAS</b>						
Toilets		30		50		60
Administration/Equip. Issue/ Laundry/Storage/Support		40		70		80
<b>Subtotal Activity Support Areas</b>		<b>70</b>		<b>120</b>		<b>140</b>
<b>BUILDING SUPPORT AREAS</b>						
Lobby/Circulation/Structure/ Partitions/Janitor's Closet		150		260		310
Mechanical/Electrical/ Communication Equip. Space		80		110		120
<b>Subtotal Building Support Areas</b>		<b>230</b>		<b>370</b>		<b>430</b>
<b>TOTAL GROSS AREA (sq.m.)</b>		<b>998</b>		<b>1,646</b>		<b>1,978</b>

### OUTDOOR ACTIVITY AREAS

- Basketball Court/Hard Surface Games
- Playground
- Playing Field



YOUTH CENTER - Medium Capacity