

## Base Civil Engineer General Criteria.

1.1. **Description.** The Base Civil Engineer (BCE) is responsible for a wide variety of design, construction, operation, maintenance, and environmental planning functions on base facilities and utilities systems. In addition, the BCE is responsible for the EOD, Emergency Management, and fire protection functions on an installation.

1.2. **Requirements Determination.** The BCE complex should provide a professional, functionally integrated environment for personnel performing management, training, administrative, design, and planning tasks and for personnel performing functions such as carpentry, metal working, electrical, pavements and grounds, and other skilled labor tasks. Additional information may be obtained from AFCEC/COS and AFCEC/CFT. Refer to CATCODE 213335 for fueling station and pump authorizations.

1.3. **Scope Determination.** Table 1.1. provides general guidelines to the space required for each function of the BCE complex, based on the size and resources of the organization.

**Table 1.1. Space Requirements for Base Civil Engineer Facilities**

Functions	Net Building Area	
	m2	ft2
Administration Area <sup>1,2</sup>		
Command Section /Administration Support	See CG 6, Admin Overview Tables 1.3 and 1.4	
Programs Flight		
Flight Chief Office (Type D)	11.15	120
Secretary/Administration (Type F) <sup>2</sup>	5.95/person	64/person
Programmer Workspaces (Type F) <sup>2</sup>	5.95/person	64/person
Design engineer/Engineer Assistant Workspaces (Type F) <sup>2</sup>	5.95/person	64/person
Construction Manager Workspaces (Type F) <sup>2</sup>	5.95/person	64/person
SABER Workspaces (Type F) <sup>2</sup>	5.95/person	64/person
Maintenance Engineering Superintendent Office (Type E) <sup>2</sup>	7.43	80
Maintenance Engineering Workspaces (Type F) <sup>2</sup>	5.95/person	64/person
Vault/Storage Room	28	300
Damage Control Center (DCC)	28	300
Conference Room <sup>2</sup>	See CG 6, Admin Overview Tables 1.3 and 1.4	
Asset Management Flight		
Flight Chief Office (Type D) <sup>2</sup>	11.15	120
Secretary/Administration (Type F) <sup>2</sup>	5.95/person	64/person
Environmental Program Manager Workspaces (Type F) <sup>2</sup>	5.95/person	64/person
Housing Operations and Management <sup>3</sup>		
Operations Flight		
Flight Chief Office (Type D) <sup>2</sup>	11.15	120
Deputy Flight Chief Office (Type E) <sup>2</sup>	7.43	80
Secretary/Administration (Type F) <sup>2</sup>	5.95/person	64/person

Utility Maintenance Superintendent Office (Type E)2	7.43	80
Infrastructure Superintendent Office (Type E)2	7.43	80
Heavy Repair Superintendent Office (Type E)2	7.43	80
Heavy Repair Element		
Vertical Zone4	883	9,500
Horizontal Zone4	372	4,000
Facility Maintenance Element		
Facility Maintenance	279	3,000
Customer Service/Work Controller Office (Type F)3,2	5.95/person	64/person
Infrastructure Element		
Electrical Distribution Zone4	112	1,200
EMCS Zone4	28	300
Power Production Zone4	139	1,500
Liquid Fuels4	37	400
Entomology4	167	1,800
Logistics Management		
Material Control Section2	110	1,180
Stock Storage Area (GOCESS/COCESS)	1,487	16,000
Vehicle Control Officer Office (Type E)2	7.43	80
Readiness and Emergency Management Flight		
Flight Chief Office (Type D)2	11.15	120
Secretary/Administration (Type F)2	5.95/person	64/person
Readiness Staff Workspaces (Type F)2	5.95/person	64/person
Training NCO Office (Type E)2	7.43	80
Logistics Office (Type E)2	7.43	80
HAZMAT Centralization Room (12-15 people)	37	400
Training Classroom (2 classrooms)	See CG 6, Admin Overview Table 1.4	
Projection Room	11	120
Inside Demonstration Room	47	500
Student Break Room	See CG 6, Admin Overview Table 1.4	
Secure Storage Area	46	500
NBC Control Center	28	300
Vehicle Storage	28	300
Warehouse Storage and Mobility Processing5	465	5,000
EOD Flight		
Flight Chief Office (Type D)2	11.15	120
Flight Superintendent Office (Type E)2	7.43	80
EOD Staff Workspaces (Type F)2	5.95/person	64/person
Training Room7	42	450
EOD Operation Control Center	20	225
Physical Fitness Room8	23	250
Classified Storage Area	14	150
Maintenance and Secure Storage Area	176	1,900
Industrial Storage Area/Hazmat Pharmacy	14	150
Mobility Professional Gear Storage Area6	112	1,200

BSERV Storage	25	270
Primary Weapon Vault/Storage	14	150
ARTS platform	18	200
Laundry <sup>8</sup>	7	75
Toilets/Showers <sup>8</sup>	28	300

**NOTES:**

1. See Base Engineer Administration (CATCODE 610127) and Base Personnel Office (CATCODE 610128) Table 1.1.

2. See Tables 1.2 through 1.4 in CG 6 Admin Overview.

3. See Family Housing Management Office (CATCODE 610119) Table 1.1.

4. This is an average zone/facility size. Each Squadron should adjust these sizes based on local requirements.

5. Sizing may vary depending on local storage or mobility processing requirements.

6. Per UTC assigned.

7. Per 10 assigned personnel.

8. Validate requirement.