

Facilities Engineering  
**OVERLOADING BUILDING FLOORS**

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**SUPPLEMENTATION.** Supplementation by subordinate headquarters is prohibited unless approved by this Headquarters.

**SUGGESTED IMPROVEMENTS.** The proponent of this regulation is the Directorate of Engineering and Housing (DEH). Users are invited to send comments and suggested improvements to the Commander, III Corps and Fort Hood, ATTN: AFZF-DE-EPS.

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1. **GENERAL.** Overloading of building floors usually results from diverting or converting buildings to other than designed use and imposing loads beyond the designed capacity. Failures from overloading occur in floor joists and other structural members and create hazards to personnel and property.

2. **DESIGN CAPACITY.** Design capacity for load bearing floors common to military installations are listed below:

<u>Floor Areas</u>	<u>Load</u>
Ordinary living quarters, squad rooms in barracks, wards in hospitals, small dining facilities, and small assembly rooms	40lb/sq ft
Rooms used for office purposes	50lb/sq ft
Dance floors	100 lb/sq ft
Dining facilities or assembly rooms with fixed seats	60 lb/sq ft
Dining facilities or assembly rooms with removable seats and other floor areas used for dancing or assemblies	100 lb/sq ft
Kitchens (except as required by special equipment)	40 lb/sq ft
Attic floors (nonstorage)	25 lb/sq ft
Corridors and porches of buildings such as barracks, hospitals, etc.	60 lb/sq ft
Warehouses and storehouses:	
Light storage	125 lb/sq ft
Heavy storage or special design	250 lb/sq ft

3. **COMPUTER ROOMS AND OTHER AREAS WITH RAISED ACCESS FLOORS:** Flooring assemblies of this type have special loading characteristics/requirements. Capacities vary with manufacturer and type. Existing floor loads should not be relocated or increased within such areas until a determination has been made by the DEH that floors will safely carry the revised load.

4. **EXCESSIVE FLOOR LOADS.** Excessive floor loads will not be imposed on any floors nor will buildings be diverted or converted from their designed usage until a determination has been made by the DEH that floors will safely carry the load.

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\*This regulation supersedes FH Reg 420-10, 10 December 1981.

6 May 1991

FOR THE COMMANDER:



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