

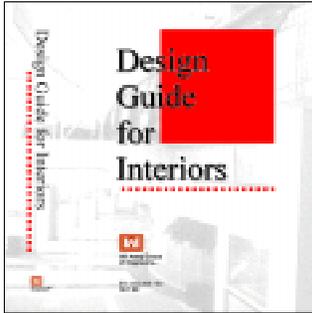
## *Introduction*



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## Introduction



Design Guide for Interiors

The purpose of the *Design Guide for Interiors* is to provide support to customers and designers in the creation of functional and aesthetic interior designs for facilities. The design guide addresses the full spectrum of design-related issues before the interior designer, with discussions of design theory, building technology, material resources, application, and criteria for selection of materials and products. The intent is to provide a common basis to communication and understanding of critical subject matter for the architectural and interior designer, so that facilities may be made harmonious in function and appearance.

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### Applicability of the Design Guide for Interiors

The *Design Guide for Interiors* is written to be applicable to three different audiences with varying needs. The pull-out "**Guide to Excellent Interiors**" gives Commanders an overview of the value and need for excellence in interior design. The remainder of the design guide provides USACE personnel having building design and construction responsibilities with information on a broad range of topics which impact the interior environment. The design guide also provides users and installation DEH/DPW staff with a general knowledge base, enabling them to perform minor renovations of interior spaces independently when professional interior design services are not available.

Design service providers are selected from in-house staff, architect-engineer (A-E) contracts, separate interior design contracts, or open-end interior design contracts. To be selected, an interior designer should have a record of functional, aesthetic design for similar projects, demonstrating efficient management and adherence to budgetary limits.

During the initial design phase, the designer should research the applicable criteria, regulations, architectural and engineering instructions, technical manuals, standard designs, codes, and industry resources. Army interior design definitions, processes, and responsibilities are derived primarily from the following documents.

- **AR 415-15, Army Military Construction Program Development and Execution.** Appendix H, Equipment Installation, defines installed building equipment, personal property (fixed), and personal property (movable). These definitions are important to planning, funding, programming, designing, and constructing or procuring interior features.

- **ER 1110-345-122, Engineering and Design, Interior Design,** derives from AR 415-15. The ER defines projects requiring interior design, design requirements and responsibilities of participants, and methods and funding for execution of interior design. Central to the understanding of this design guide are the definitions of building-related and furniture-related interior design.



Building-related interior design<sup>1</sup>



Furniture-related interior design<sup>2</sup>

- **Building-related interior design** applies to all facilities and requires the design and selection of interior surface materials and items permanently attached to the structure. Layout for anticipated furniture and equipment will also be provided. Building-related interior design services are an integral part of project design and facility construction.

- **Furniture-related interior design** applies to facility types where the selection and arrangement of furniture and furnishings determines the functionality of the building. Furniture-related interior design involves the selection and layout of furniture and furnishings, which are not provided from construction funds. Furniture-related interior design services must be requested by the using activity. The using activity is normally required to fund furniture-related interior design services. In addition, the using activity must provide appropriate funds for procurement and installation of furniture and furnishings.

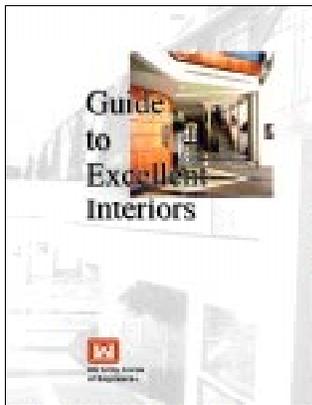
Responsibilities of the designer and the using activity are further delineated in ER 1110-345-122 *Engineering and Design, Interior Design*. Interior design solutions should be planned concurrently with architectural development to ensure appropriate design, finish, and layout. Project development that does not address interior design needs

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<sup>1</sup> Security Operations Training Facility, Fort Devons, Massachusetts.

<sup>2</sup> Building 32, Wright-Patterson AFB, Ohio.

until the completion of architectural design can result in unaesthetic, inefficient, or costly facilities because the designer is restricted in choice of finishes and furniture arrangements. Coordination is especially important in the planning of lighting, communication, and electrical solutions; as well as the design and placement of heating, ventilating and air conditioning systems. The design of permanent fixtures, equipment, and built-in casework impacts multiple design disciplines, and necessitates that the interior designer be an integral part of the project team.



Guide to Excellent Interiors

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## Organization of the Design Guide for Interiors

The *Design Guide for Interiors* begins with a brochure entitled "**Guide to Excellent Interiors.**" This is a stand-alone overview of the value and process of interior design, and the role of the interior designer. "Guide to Excellent Interiors" is also available separately for distribution to facility users, to aid them in their involvement in the interior design process.

Chapter Two of the *Design Guide for Interiors* discusses the relationship between **Human Behavior and the Interior Environment**—how we perceive space, and how we react to it. Chapter Three is a technical discussion of **Light and Color**—two of the primary elements which are used to define space. Chapter Four addresses **Design Basics**—elements and theories of composition.

The next three chapters discuss the physical makeup of interior space—**Building Systems and Components** which give space structure and convenience; and **Materials and Furnishings** which form the interior designer's primary palette.

Appendix A, **Army Interior Design Process**, provides guidelines on the procedure to be followed in executing an interior design project. Appendix B, **Planning for Administrative Work Environments**, outlines the design process for a specific application.

The **Glossary** explains many of the design-specific terms used in the guide. The **Bibliography** lists the source of those works referenced herein. The **Index** provides a detailed directory of text subjects.

Supplemental tabs numbered one through seven hundred are provided for cataloging additional information from the user's own resources by construction category codes. This information may include major command and installation criteria and guidelines, or notes from facilities classes.

The *Design Guide for Interiors* is meant to be a ready reference. It is neither a textbook nor a design solution. It attempts to cover in some detail those issues which might arise during the design process and which might otherwise be left unaddressed for lack of such a reference.

The *Design Guide for Interiors* will prove helpful for anyone unfamiliar with interior design terminology and application. These users should begin by reading Chapters 2, 3, and 4, which cover theoretical aspects of design. The remaining chapters may then be referred to, as needed, for answers to questions pertaining to building construction, finishes and furnishings.

No one source can substitute for the knowledge gained through education and experience. For persons seeking additional information, the bibliography contains names of texts which provide more detail on any of the topics addressed herein. It is intended that the *Design Guide for Interiors* provide not a comprehensive reference, but sufficient resources to begin the interior design process.