



Designation: E2083 – 05

# Standard Classification for Building Construction Field Requirements, and Office Overhead & Profit<sup>1</sup>

This standard is issued under the fixed designation E2083; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This standard covers a classification for field requirements, office overhead, and profit for use in construction estimating. This classification is common to all forms of construction, and its components are an integral part of any construction cost estimate. The classification serves as a consistent reference for analysis, evaluation, and monitoring during the feasibility, planning, design, and construction phases of building. Used in conjunction with UNIFORMAT II and other elemental classifications, including Classification E2168, it also ensures consistency in the economic evaluation of construction work across time and from project to project. Through consistency in estimating and cost recording it enhances reporting at all stages in construction—from feasibility and planning through the preparation of working documents, construction, maintenance, rehabilitation, and disposal—and is a necessary part of the reporting process described in Practice E1804.

1.2 This classification applies to all construction work.

1.3 This classification is not based on permanent physical elements of construction (as defined and classified in Classification E1557). Rather, the classification items are major, non-permanent, cost components common to all construction work. They perform the same function and provide for similar needs regardless of the design, specification, construction method, or materials used in the physical construction.

## 2. Referenced Documents

2.1 *ASTM Standards*:<sup>2</sup>

E833 Terminology of Building Economics

E1557 Classification for Building Elements and Related

Sitework—UNIFORMAT II

E1804 Practice for Performing and Reporting Cost Analysis During the Design Phase of a Project

E2168 Classification for Allowance, Contingency and Reserve Sums in Building Construction Estimating

## 3. Terminology

3.1 *Definitions*—For definitions of terms used in this classification, refer to Terminology E833.

## 4. Significance and Use

4.1 This classification defines an integral part of any construction estimate and cost record. It classifies the non-permanent portion of construction activity that is essential to allow physical implementation of the required work to take place.

4.2 Used in conjunction with UNIFORMAT II, this classification provides for consistent and complete estimating of building construction work, especially during the design phase. The same considerations of consistent use and commonality to all work have been applied here.

4.3 This classification is sufficiently generic to allow its use in estimating all forms of construction work and through all stages of planning, design, use, and disposal. Additionally, it is appropriate for use in both elemental estimates and trade estimates.

## 5. Basis of Classification

5.1 All parts of the built environment are included.

5.2 *Criteria for the Classification*—The selected classification, the items to include within it, and within which parts of the classification to include them are based on the following criteria:

5.2.1 Applies to any construction type and shall not include physical elements of construction such as those defined in Classification E1557 and other elemental classifications.

5.2.2 Includes only items of a construction enabling, management, supervision, jurisdictional, financial, legal, liability, and client requirement nature necessary to the performance of the construction work.

<sup>1</sup> This classification is under the jurisdiction of ASTM Committee E06 on Performance of Buildings and is the direct responsibility of Subcommittee E06.81 on Building Economics.

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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

5.2.3 Includes specifically those items of cost that by common understanding and usage are normally borne by a general contractor or construction manager, and any other items required by terms of contract and normally specified within the general requirements and general conditions of contract.

5.2.4 Includes items with significant influence on cost and a high frequency of occurrence. Categories are defined in order to provide a framework for cost control. The decision as to where among the classification elements to include specific items will ultimately rely on professional judgment as to where professionals in current practice normally look for such items.

**6. Description of Field Requirements — Individual Classification**

6.1 *Classification of Field Requirements*—Table 1 presents the classification of field requirements. Comprising three hierarchical levels: Major Group Classification for Level 1, Group Classification for Level 2, and Individual Classifications for Level 3.

6.2 The following lists show what items are included in the recommended classification at Level 3. Note that the listings of inclusions are not intended to be an exhaustive listing. Rather, they provide a general outline of what to expect in this individual element consistent with the selection criteria outlined in 5.2.

6.3 *Field Requirements (X 10)*

6.3.1 *Bonds, Permits, Fees, and Insurances (X 10005)*

Includes:

6.3.1.1 building permit,

6.3.1.2 fire district permit,

6.3.1.3 miscellaneous permits: street use, curb cuts, sidewalk use, parking meter use,

6.3.1.4 utility connections: water, storm sewer, sanitary sewer, electric, gas, fire protection, others,

6.3.1.5 bonds: bid bond, performance bond, payment bond, lien bond, maintenance bond, retainage bond, special bonds,

6.3.1.6 insurance: public liability, builders risk, all-risk, hold harmless.

Excludes:

6.3.1.7 Permanent work included elsewhere within the physical elements of construction.

6.3.2 *Field/Site Set-Up and Accommodation (X 1010)*

Includes:

6.3.2.1 Access to site: temporary roads, storage, lay down and parking areas, traffic control,

6.3.2.2 Site setup: move in and out, mobilization, set-up, construction signs,

6.3.2.3 Site accommodations

(1) temporary buildings: offices, storage sheds, first aid, lunch room,

(2) temporary labor camp: dormitories, kitchens, laundry, store, entertainment, temporary toilets and sanitary facilities, lighting, power, heating, ventilation and cooling,

(3) telephone, facsimile, and data: service and monthly charges,

(4) communication system: service and monthly charges,

(5) computer and copy equipment: purchase, rental, usage, and maintenance,

(6) stationery, copy/printing cost,

(7) office and first aid supplies.

Excludes:

6.3.2.4 Protection, barricades, enclosures (See 6.3.5 *Safety and Protection (X 1025)*)

6.3.3 *Management, Supervision and Field Engineering (X 1015)*

TABLE 1 Classification of Field Requirements, and Office Overhead and Profit, with Alpha-Numerical Designations

Level 1 Major Group Classification		Level 2 Group Classification		Level 3 Individual Classification	
X	Field Requirements and Overhead & Profit	X 10	Field Requirements	X 1005	Bonds, Permits, Fees, and Insurances
				X 1010	Field/Site Set-Up and Accommodation
				X 1015	Management, Supervision, and Field Engineering
				X 1020	Personnel Travel and Lodging
				X 1025	Safety and Protection
				X 1030	Construction Aids, Equipment, and Tools
				X 1035	Temporary Construction
				X 1040	Climactic and Environmental Requirements
				X 1045	Quality Control, Inspection, and Testing
				X 1050	Maintenance and Housekeeping
				X 1090	Other Contractual Requirements
		X 20	Office Overhead & Profit	X 2010	Home Office Overhead
				X 2020	Profit