

Special Construction

Special Construction

Some aspects of a building are complex and fall outside of the normal definitions of brick and mortar.

Special Construction covers many of these important construction methods and details.

Special Construction

Special Construction will need to be coordinated by the designer, contractor and owner to assure goals are met.

Specific attention will need to be paid to:

Installation

Structural support

Utilities

Processes

Special Construction

Installation

Connectors or brackets to be installed in structure prior to installation of equipment?

Sequence of installation requirement for access and staging?

Delivery to site?

Storage of equipment prior to installation?

Special Construction

Structural support

Foundation support of equipment load

Lateral bracing of large equipment

Structural isolation of equipment to reduce vibration or noise

Special Construction

Utilities to operate equipment

Electric

Gas (natural or liquid propane)

Water

Waste

Other

(refer to equipment manufacturer's literature)

Special Construction

Processes

Access for using equipment

Access for maintenance and service

Storage, access and removal of raw materials
or finished products

Special Construction

Designers, contractors and owners must work closely to select, design, specify, procure, install and maintain unique equipment and facilities.

Building owners may play the primary role in selecting and procuring equipment, as the success of their business depends on the performance of the equipment.

Special Construction

Businesses may come to designers and contractors with a prescribed list of functional requirements for their facility, which may lead to Special Construction.

Special Facility Components

Security Protection

Swimming Pools

Fountains

Waterfalls

Aquariums

Amusement Structures and Equipment

Water Slides

Wave Generators

Tubs and Pools

Whirlpools

Ice Rinks

Kennels and Animal Shelters

Special Facility Components

Clean Rooms

Hyperbaric Rooms

Insulated Rooms

Cold Storage Rooms

Constant Temperature Rooms

Sound Conditioned Rooms

Office Shelters

Planetariums

Saunas

Steam Baths

Athletic Rooms

Fabricated Rooms

Vaults

Special Structures

Fabric Structures

Air Supported Fabric Structures

Tensioned Fabric Structures

Space Frames

Geodesic Structures

Fabricated Engineered Structures

Glazed Structures

Greenhouses

Solariums

Grandstands and Bleachers

Metal Building Systems

Portable and Mobile Buildings

Observatories

Integrated Construction

Building Modules

Modular Mezzanines

Ballistic Resistant Protection

Ballistic Resistant Components

Ballistic Resistant Rooms

Ballistic Resistant Storefront

Blast Resistant Components

Sound, Vibration and Seismic Control

Manufactured Sound and Vibration Control Components

Radiation Protection

Lead Lined Lath

Radar Frequency Shielding