Building Design & Construction Systems

friable

Building Design & Construction Systems

insulating glass

Building Design & Construction Systems

rabbet

Building Design & Construction Systems

wood

Building Design & Construction Systems

valley

Building Design & Construction Systems

glazing

Building Design & Construction Systems

Two sheets of glass with an air space between, to insulate against the passage of heat or sound. Also called *double glazing.*

Building Design & Construction Systems

Soil that is easily crumbled or reduced to powder.

Building Design & Construction Systems

The hard fibrous substance lying beneath the pith and bark of trees.

Building Design & Construction Systems

A groove cut into a member to receive another member.

Building Design & Construction Systems

The work of installing glass in a frame.

Building Design & Construction Systems

The interior trough formed by the intersection of two sloping roof surfaces.

Building Design & Construction Systems

sealant

Building Design & Construction Systems

preservative

Building Design & Construction Systems

high-carbon steel

Building Design & Construction Systems

ASTM

Building Design & Construction Systems

bulletproof glass

Building Design & Construction Systems

grading

Building Design & Construction Systems

A substance that inhibits the development and action of fungi, borers, and insects that deteriorate wood.

Building Design & Construction Systems

Material used to prevent the passage of liquid across a joint or opening.

Building Design & Construction Systems

American Society for Testing and Methods.

Building Design & Construction Systems

Steel having a carbon content over 0.5 percent. In general, increased carbon content increases strength and hardness, but decreases ductility.

Building Design & Construction Systems

Removing and/or adding earth in order to bring the ground surface to a specified elevation or profile. Also called *earthwork*.

Building Design & Construction Systems

Glass which has four or more layers of glass laminated to three or more layers of plastic, used where strong impacts may occur.

Building Design & Construction Systems

asphalt saturated felt

Building Design & Construction Systems

stile

Building Design & Construction Systems

built-up roofing

Building Design & Construction Systems

sliding door

Building Design & Construction Systems

weep hole

Building Design & Construction Systems

mastic

Building Design & Construction Systems

The upright or vertical edge of a door or window.

Building Design & Construction Systems

A roofing material applied in several layers to create a built-up composition roof.

Building Design & Construction Systems

A door that moves horizontally, either on a track in the floor or from rollers at the head.

Building Design & Construction Systems

Roofing made up of plies of saturated roofing felts alternated with layers of pitch or hot asphalt cement and surfaced with gravel or a cap sheet.

Building Design & Construction Systems

A permanently plastic waterproof adhesive material used in sealing joints.

Building Design & Construction Systems

A small hole near the bottom of a retaining wall, usually backfilled with gravel, to allow water to drain to the outside of the wall and thus avoid hydrostatic pressure against the wall.

Building Design & Construction Systems

Unified Soil Classification System

Building Design & Construction Systems

plunger

Building Design & Construction Systems

sill

Building Design & Construction Systems

hydraulic elevator

Building Design & Construction Systems

baluster

Building Design & Construction Systems

cut and fill

Building Design & Construction Systems

The driving device of a hydraulic elevator, which is powered by liquid under pressure within a cylinder. Also referred to as a *ram*.

Building Design & Construction Systems

The most widely used system for classifying soils. In this system, the soils are primarily classed as coarse-grained (gravels and sands), fine-grained (silts and clays), and highly organic.

Building Design & Construction Systems

An elevator operated by fluid pressure from below, which raises or lowers the elevator car.

Building Design & Construction Systems

The lower horizontal member, extending between jambs, which forms the bottom of a window or other frame.

Building Design & Construction Systems

Earth that is removed (cut) and earth that is added (fill) in grading.

Building Design & Construction Systems

A vertical support for a handrail.

Building Design & Construction Systems

bullnose

Building Design & Construction Systems

malleability

Building Design & Construction Systems

pith

Building Design & Construction Systems

California bearing ratio (CBR)

Building Design & Construction Systems

hoistway

Building Design & Construction Systems

cold joint

Building Design & Construction Systems

The ease with which a metal can be shaped by hammering or by machine.

Building Design & Construction Systems

A rounded exposed edge, such as a tile or wood trim piece.

Building Design & Construction Systems

A ratio used to determine the bearing capacity of a soil, based on a standard test.

Building Design & Construction Systems

The heart center of a log.

Building Design & Construction Systems

A joint formed when a concrete surface hardens before the next batch of concrete is placed against it.

Building Design & Construction Systems

A vertical shaft that accommodates one or more elevators, conveyors, or dumbwaiters.

Building Design & Construction Systems

construction joint

Building Design & Construction Systems

parging

Building Design & Construction Systems

hardness

Building Design & Construction Systems

green

Building Design & Construction Systems

K-value

Building Design & Construction Systems

weather stripping

Building Design & Construction Systems

The application of plaster to the back of masonry walls.

Building Design & Construction Systems

The joint between two successive concrete pours. Construction joints are usually located where the shear is minimum, such as at a midspan of beams.

Building Design & Construction Systems

Lumber that has not been seasoned and whose moisture content is close to that of the living tree.

Building Design & Construction Systems

A metal's resistance to abrasion and penetration.

Building Design & Construction Systems

Stripping applied to exterior doors or windows to make them weathertight.

Building Design & Construction Systems

The thermal conductivity of a material.

Building Design & Construction Systems

cylinder test

Building Design & Construction Systems

grade SW
(severe weather)

Building Design & Construction Systems

dry pipe sprinkler

Building Design & Construction Systems

cavity wall

Building Design & Construction Systems

solid core door

Building Design & Construction Systems

galvanic action

Building Design & Construction Systems

The grade of brick used where high resistance to freezing and thawing is required.

Building Design & Construction Systems

A test to determine the compressive strength of concrete by subjecting a standard cylinder of hardened concrete to compression in a testing machine.

Building Design & Construction Systems

A wall built of two or more wythes of masonry units with a continuous air space within the wall. The wythes must be tied together with noncorrosive metal ties.

Building Design & Construction Systems

A sprinkler system whose pipes are normally pressurized with only air, thus being invulnerable to freezing temperatures. Upon actuation, the air is vented and supply pressure forces water through the system.

Building Design & Construction Systems

The deteriorating reaction between dissimilar metals that are in contact in the presence of moisture. Also called *electrolysis*.

Building Design & Construction Systems

A door that has a core of solid wood or other solid material.

Building Design & Construction Systems

softwood

Building Design & Construction Systems

safety glass

Building Design & Construction Systems

elastomeric flooring

Building Design & Construction Systems

cribbing

Building Design & Construction Systems

soil

Building Design & Construction Systems

earthwork

Building Design & Construction Systems

Laminated glass, consisting of a thin sheet of transparent plastic laminated between two layers of clear glass. Also referred to as *shatterproof glass.*

Building Design & Construction Systems

The wood of various coniferous (cone-bearing) evergreen trees, such as cedars, pines, and firs.

Building Design & Construction Systems

A cellular framework that is filled with rock or soil to retain an earth embankment.

Building Design & Construction Systems

Synthetic resins applied in liquid form, producing a durable, seamless floor surface.

Building Design & Construction Systems

Removing and/or adding earth in order to bring the ground surface to a specified elevation or profile. Also called *grading.*

Building Design & Construction Systems

A natural material, formed of decomposed and disintegrated parent rock, that can support plant life.

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excavation

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Building Design & Construction Systems

perm

BDCS421 Copyright 2008 by Kaplan® AEC Education

Building Design & Construction Systems

elevator cab

BDCS418 Copyright 2008 by Kaplan® AEC Education

Building Design & Construction Systems

sound transmission class (STC)

BDCS419 Copyright 2008 by Kaplan® AEC Education

Building Design & Construction Systems

reinforcing steel

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Building Design & Construction Systems

grade

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Building Design & Construction Systems

The unit of permeability for a given material, expressing the resistance of the material to the penetration of moisture. One perm is equal to the flow of one grain of water vapor through one square foot of surface area per hour with a pressure difference of one inch of mercury.

Building Design & Construction Systems

The digging or removal of earth.

Building Design & Construction Systems

A single-number rating for the evaluation of a particular cross-section in terms of its transmission of airborne sound. The higher the STC rating, the more effective the construction is at stopping airborne sound.

Building Design & Construction Systems

The load-carrying unit of an elevator, including its platform, frame, enclosure, and door. Also referred to as an *elevator car.*

Building Design & Construction Systems

The designation of the quality of a manufactured piece of wood.

Building Design & Construction Systems

Round steel bars with surface deformations that are placed in the forms prior to casting of concrete, and that primarily resist tension.

Building Design & Construction Systems

terne plate

Building Design & Construction Systems

overhead door

Building Design & Construction Systems

bronze

Building Design & Construction Systems

moving stairway

Building Design & Construction Systems

water table

Building Design & Construction Systems

veneer

Building Design & Construction Systems

A door that slides upward, rolls up, folds up in panels, or rides up and pivots inward.

Building Design & Construction Systems

Steel coated with lead and tin, used for roofing and flashing.

Building Design & Construction Systems

A continuously moving, power-driven mechanical device that transports passengers along an incline from one floor to another. Also referred to as an *escalator.*

Building Design & Construction Systems

An alloy of copper and tin.

Building Design & Construction Systems

Masonry finish material which is attached, but not structurally bonded, to the backing. Also, a thin layer or sheet of wood produced by slicing or rotary cutting.

Building Design & Construction Systems

The level below which the subsoil is completely saturated with water. Also called the *groundwater level.*

Building Design & Construction Systems

annealed glass

Building Design & Construction Systems

water-cement ratio

Building Design & Construction Systems

aggregate

Building Design & Construction Systems

skylight

Building Design & Construction Systems

car bumpers

Building Design & Construction Systems

window glass

Building Design & Construction Systems

The ratio of water to cement in a concrete mix, the main factor that determines concrete strength.

Building Design & Construction Systems

Ordinary window glass that has been cooled slowly to avoid locked-in thermal stresses.

Building Design & Construction Systems

An overhead source of natural light, generally installed on a roof.

Building Design & Construction Systems

The chemically inert element of concrete, usually consisting of sand, gravel, and/or other granular material.

Building Design & Construction Systems

Clear, flat sheet glass that is most commonly used for glazing.

Building Design & Construction Systems

A device located at the bottom of an elevator hoistway, used to stop a cab's overtravel at low speed, not to stop a free-falling cab. Also referred to as *buffer.*

Building Design & Construction Systems

compacted fill

Building Design & Construction Systems

plastic limit

Building Design & Construction Systems

sand

Building Design & Construction Systems

bond

Building Design & Construction Systems

mullion

Building Design & Construction Systems

heat-absorbing glass

Building Design & Construction Systems

The moisture content at which a soil starts to change from a semisolid to a plastic state.

Building Design & Construction Systems

Fill that has been densified by the application of pressure, usually by mechanical equipment, in order to increase its strength and stability and reduce its settlement. Properly compacted fill is often suitable for the support of building footings.

Building Design & Construction Systems

An arrangement of the elements of a masonry wall to provide strength by lapping the units. Also refers to the pattern formed by the exposed faces of the units.

Building Design & Construction Systems

Granular material, ranging from about 3/8 inch to 1/200 inch.

Building Design & Construction Systems

Tinted glass that absorbs a high percentage of solar radiation. Also referred to *actinic glass*.

Building Design & Construction Systems

A vertical member between windows or doors.

Building Design & Construction Systems

insulation

Building Design & Construction Systems

bed joint

Building Design & Construction Systems

air entrainment

Building Design & Construction Systems

expansive soil

Building Design & Construction Systems

metal decking

Building Design & Construction Systems

concrete block

Building Design & Construction Systems

The horizontal mortar joint in masonry work.

Building Design & Construction Systems

A material used to prevent or reduce sound transmission or heat flow.

Building Design & Construction Systems

A fine-grained cohesive soil that undergoes large volume changes with changes in moisture content.

Building Design & Construction Systems

The incorporation of tiny air bubbles into concrete to improve its workability and resistance to frost.

Building Design & Construction Systems

A hollow concrete masonry unit.

Building Design & Construction Systems

Sheet steel in a corrugated, ribbed, or cellular form and used for structural load-carrying purposes in floor or roof construction.

Building Design & Construction Systems

ledger

Building Design & Construction Systems

sheepsfoot roller

Building Design & Construction Systems

frost line

Building Design & Construction Systems

steel

Building Design & Construction Systems

architectural bronze

Building Design & Construction Systems

batter boards

Building Design & Construction Systems

A large-toothed roller used for the compaction of soil.

Building Design & Construction Systems

A horizontal member supporting joists.

Building Design & Construction Systems

An alloy of iron and carbon, with a carbon content between 0.1 and 1.7 percent (more than that of wrought iron and less than that of cast iron).

Building Design & Construction Systems

The maximum depth of frost penetration in the ground expected in a given area.

Building Design & Construction Systems

Reference points offset a given distance from the building line and set prior to excavation.

Building Design & Construction Systems

An alloy of copper, zinc, lead, and tin used for moldings and forgings.

Building Design & Construction Systems

roof pitch

Building Design & Construction Systems

lockset

Building Design & Construction Systems

threshold

Building Design & Construction Systems

masonry

Building Design & Construction Systems

double-acting door

Building Design & Construction Systems

mandrel

Building Design & Construction Systems

A complete fastening system including lock, knob, escutcheon, and so on.

Building Design & Construction Systems

The slope or incline of a roof expressed in degrees or as the ratio of a vertical rise to the horizontal run.

Building Design & Construction Systems

Brick, block, tile, stone, or similar materials bonded together with mortar.

Building Design & Construction Systems

A member beneath a door, to cover the floor joint or provide weather protection. Also called a *saddle*.

Building Design & Construction Systems

A solid core used in driving a shell pile into the ground. When the driving is complete, it is removed and the shell is filled with concrete.

Building Design & Construction Systems

A door having hardware that permits it to swing in either direction from the plane of its frame.

Building Design & Construction Systems

bar chair

Building Design & Construction Systems

dry rot

Building Design & Construction Systems

split

Building Design & Construction Systems

metal lath

Building Design & Construction Systems

wane

Building Design & Construction Systems

brown coat

Building Design & Construction Systems

Timber decay due to fungus, in which pockets of dry powder develop.

Building Design & Construction Systems

A device used to support reinforcing bars during the placing of concrete.

Building Design & Construction Systems

Sheet metal or wire fabric into which a base coat of plaster is keyed.

Building Design & Construction Systems

Lengthwise separation of wood extending from one face through to the opposite face.

Building Design & Construction Systems

The second coat of plaster, in three-coat plastering, which is applied over the scratch coat and beneath the finish coat. The large proportion of sand in this mixture gives the coat its name.

Building Design & Construction Systems

Bark or lack of wood on the edge or corner of a piece of wood.

Building Design & Construction Systems

buck

Building Design & Construction Systems

organic soil

Building Design & Construction Systems

mortise lock

Building Design & Construction Systems

acoustics

Building Design & Construction Systems

clay

Building Design & Construction Systems

panic hardware

Building Design & Construction Systems

Soil with a high organic content (decomposed vegetable or animal matter). Organic soils are usually very compressible and have very low bearing capacities.

Building Design & Construction Systems

A door frame of wood or metal to which the finished frame is attached.

Building Design & Construction Systems

The science of sound and sound control.

Building Design & Construction Systems

A lock installed in a rectangular opening cut in the door, rather than on the door's surface.

Building Design & Construction Systems

A door-latching assembly that will open the door if subjected to pressure.

Building Design & Construction Systems

A fine-grained, cohesive, inorganic soil.

Building Design & Construction Systems

winder

Building Design & Construction Systems

compression
zipper gasket

Building Design & Construction Systems

modular

Building Design & Construction Systems

epoxy

Building Design & Construction Systems

alkyd

Building Design & Construction Systems

leader

Building Design & Construction Systems

A prefabricated strip of molded or extruded material used in a dry glazing process. Also referred to as a *glazing gasket*.

Building Design & Construction Systems

A step in a spiral stairway that is wedge-shaped, with its tread wider at one end than the other.

Building Design & Construction Systems

A synthetic resin having excellent adhesive properties.

Building Design & Construction Systems

Describing a system composed of standardized units or sections used for simplified construction or flexibility.

Building Design & Construction Systems

A vertical pipe used to conduct roof water to the ground. Also called a *downspout*.

Building Design & Construction Systems

A synthetic resin used as a vehicle for paint.

Building Design & Construction Systems

forms

Building Design & Construction Systems

soffit

Building Design & Construction Systems

roping

Building Design & Construction Systems

brass

Building Design & Construction Systems

reverberation

Building Design & Construction Systems

fiber saturation point

Building Design & Construction Systems

The exposed underside of an architectural element, such as a beam or arch.

Building Design & Construction Systems

The molds into which concrete is placed until it hardens.

Building Design & Construction Systems

An alloy of copper and zinc that is corrosion-resistant and very workable.

Building Design & Construction Systems

The arrangement of cables used to hoist an electric elevator.

Building Design & Construction Systems

The moisture content (about 30 percent) above which there is no shrinkage or swelling of wood with variation in moisture content.

Building Design & Construction Systems

The persistence of sound in an enclosed space after the source has stopped.

Building Design & Construction Systems

cricket

Building Design & Construction Systems

cold-rolled steel

Building Design & Construction Systems

portland cement

Building Design & Construction Systems

moving ramp

Building Design & Construction Systems

grout

Building Design & Construction Systems

cylinder lock

Building Design & Construction Systems

Sheet steel that has been formed using heavy rollers at room temperature, to improve its surface finish, hardness, and strength.

Building Design & Construction Systems

A flashing saddle used on a sloping roof to divert water around a chimney.

Building Design & Construction Systems

A continuously-moving, power-driven device that transports passengers up an inclined plane horizontally (moving sidewalk). Moving ramps have continuous tread, rather than the individual steps of an escalator.

Building Design & Construction Systems

The finely ground material used as the binder for structural concrete.

Building Design & Construction Systems

A door lock having the locking mechanism within a cylinder.

Building Design & Construction Systems

A high slump concrete, consisting of Portland cement, sand, hydrated lime, water, and sometimes pea gravel.

Building Design & Construction Systems

value engineering

Building Design & Construction Systems

toughness

Building Design & Construction Systems

louver

Building Design & Construction Systems

muntin

Building Design & Construction Systems

soil boring log

Building Design & Construction Systems

modular bricks

Building Design & Construction Systems

A metal's ability to withstand shock or impact.

Building Design & Construction Systems

The systematic review of a project design to obtain the best value for the money spent, considering first costs, operating costs, and replacement costs.

Building Design & Construction Systems

A short, vertical member within a window frame, either vertical or horizontal.

Building Design & Construction Systems

An assembly of sloping, overlapping slats, fixed or adjustable, which excludes rain but admits air and/or light.

Building Design & Construction Systems

Bricks with dimensions such that one or more brick courses plus the mortar joints produce courses with an exact dimension, which is usually a multiple of four inches.

Building Design & Construction Systems

A log showing the types of soil encountered in a test boring and other relevant information.

Building Design & Construction Systems

galvanizing

Building Design & Construction Systems

dead bolt

Building Design & Construction Systems

architectural appearance grade

Building Design & Construction Systems

stud wall

Building Design & Construction Systems

flood coat

Building Design & Construction Systems

slash-grained lumber

Building Design & Construction Systems

A locking device which is rectangular in a cross-section and projected manually.

Building Design & Construction Systems

The process of applying a coating of zinc to iron for protection against corrosion.

Building Design & Construction Systems

A wall consisting of small, closely spaced members usually sheathed on both faces with a wall material.

Building Design & Construction Systems

The appearance grade used for glued laminated members where appearance is an important requirement.

Building Design & Construction Systems

Lumber with rings 0 degrees to 45 degrees with the wide face. Also called *flat-grained lumber.*

Building Design & Construction Systems

In a built-up composition roof, the top layer of bituminous material, which is poured on the surface and covered with an aggregate coating.

Building Design & Construction Systems

terrazzo

Building Design & Construction Systems

admixture

Building Design & Construction Systems

light

Building Design & Construction Systems

pane

Building Design & Construction Systems

stop

Building Design & Construction Systems

bonding plaster

Building Design & Construction Systems

A prepared substance added to concrete to alter or achieve certain characteristics.

Building Design & Construction Systems

Flooring material made from small chips of marble set in cement and polished.

Building Design & Construction Systems

A piece of glass used to glaze a division of a window or door.

Building Design & Construction Systems

A pane of glass, a window, or any subdivision of a window.

Building Design & Construction Systems

A gypsum plaster mixture containing lime, which is used on interior concrete surfaces.

Building Design & Construction Systems

The trim applied to the inside face of a door or window frame against which the door or window closes.

Building Design & Construction Systems

escalator

Building Design & Construction Systems

tier

Building Design & Construction Systems

bush-hammered finish

Building Design & Construction Systems

gypsum lath

Building Design & Construction Systems

sandblasting

Building Design & Construction Systems

accelerator

Building Design & Construction Systems

An individual vertical tier of masonry in a cavity wall. Also called a *wythe*.

Building Design & Construction Systems

A continuously moving, power-driven mechanical device that transports passengers along an incline from one floor to another. Also referred to as a *moving stairway*.

Building Design & Construction Systems

A base for plaster consisting of a gypsum core sandwiched between two sheets of heavy, porous paper.

Building Design & Construction Systems

An exposed aggregate concrete finish obtained by roughening the surface with a power-operated bush hammer, which has a serrated face.

Building Design & Construction Systems

A substance, such as calcium chloride, added to a concrete mix to speed up its setting and strength development.

Building Design & Construction Systems

The blasting of concrete with sand or another abrasive material to dull the formed surface, make the color uniform, or expose the aggregate.

Building Design & Construction Systems

dead-end corridor

Building Design & Construction Systems

slump test

Building Design & Construction Systems

flashing

Building Design & Construction Systems

nosing

Building Design & Construction Systems

elastomer

Building Design & Construction Systems

flitch

Building Design & Construction Systems

A test for mixed concrete to determine consistency and workability.

Building Design & Construction Systems

A corridor that is closed at one end, usually limited to 20 feet in length.

Building Design & Construction Systems

The projection of a tread beyond the riser below.

Building Design & Construction Systems

An impervious material used to prevent water penetration at joints formed by different materials or surfaces.

Building Design & Construction Systems

A large timber from which veneers are cut.

Building Design & Construction Systems

A material having the qualities of rubber.

Building Design & Construction Systems

lamella

Building Design & Construction Systems

yard lumber

Building Design & Construction Systems

Lewis bolt

Building Design & Construction Systems

control joint

Building Design & Construction Systems

decibel (dB)

Building Design & Construction Systems

board foot

Building Design & Construction Systems

Lumber of all sizes and patterns intended for general building purposes.

Building Design & Construction Systems

A roof structure comprising a series of parallel arches, skewed to the axes of the building, which are intersected by another series of skewed arches, so that they interact with each other.

Building Design & Construction Systems

A groove in a concrete structure made to predetermine the location of cracks.

Building Design & Construction Systems

A round threaded metal device with a bell-shaped end that is used to anchor stone.

Building Design & Construction Systems

A unit of measure for lumber equal to the volume of a board 12 inches x 12 inches x 1 inch.

Building Design & Construction Systems

A logarithmic measure of sound intensity, expressing the ratio between a given sound being measured and a reference level. The reference level generally corresponds to the faintest audible sound.

Building Design & Construction Systems

casting

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Building Design & Construction Systems

course

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hydrostatic pressure

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Building Design & Construction Systems

jamb

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Building Design & Construction Systems

electric elevator

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Building Design & Construction Systems

coefficient of thermal expansion

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Building Design & Construction Systems

A continuous horizontal layer of masonry work.

Building Design & Construction Systems

A method of producing a metal product by pouring molten metal into a mold of the desired shape.

Building Design & Construction Systems

Either of the vertical members forming the sides of a door or window opening.

Building Design & Construction Systems

The pressure exerted by liquid against every surface it contacts.

Building Design & Construction Systems

The ratio of unit strain to temperature change, which is constant for a given material.

Building Design & Construction Systems

An elevator operated by traction, in which steel cables with counterweights raise or lower the elevator car.