

ORDINANCE NO. 439

Relating to reinforced concrete, to amend Sec. 2 of Ordinance 417

Ord 439
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Ord 417

~~to title for~~

An Ordinance to amend Section 2 of Ordinance No. 417, entitled "An Ordinance to provide for the prevention of fires and the protection of persons and property endangered thereby, and to establish and define the fire limits of the City of Albany, and to repeal all Ordinances and parts of Ordinances in conflict therewith" passed by the Council May 27, 1906, approved by the Mayor May 28, 1906.

(1507)
1507

The People of the City of Albany do ordain as follows:

Section 1. That Section 2 of Ordinance No. 417, entitled "An Ordinance for the prevention of fires and the protection of persons and property endangered thereby, and to establish and define the fire limits of the City of Albany, and to repeal all ordinances and parts of Ordinances in conflict therewith," passed by the Council May 27, 1906, be and the same is hereby amended so as to read as follows:

Section 2. All buildings hereafter erected within the fire limits of the City of Albany shall be made and constructed of brick, stone, concrete, reinforced concrete, or brick and stone, brick and concrete, brick, stone, concrete and reinforced concrete, or of brick and reinforced concrete, or of stone and concrete, or of stone and reinforced concrete, or of stone, concrete and reinforced concrete, or of concrete and reinforced concrete, and shall have their outside walls and partition walls and party walls so constructed and not less than twelve inches thick; and all such side walls and party walls shall extend from the foundation to the top of and through the roof of such buildings, and that portion of such walls extending through or above the roof of such buildings, being termed "Fire Walls" shall not be less than eight inches thick, and shall extend not less than three feet above the roof, and shall be constructed of the same material as the main walls, and such roof shall be covered with such material as will afford protection against fire, and said walls shall be so constructed as to separate all wood work of the interior and exterior of such buildings thoroughly and completely from all and every part of the interior or

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or extension of any adjoining building.

The term "building," as used in this section, shall be held to mean all structures covered with a roof of any kind, but shall not include porches; provided, that no blast furnace shall be erected or operated within the fire limits of said Ordinance No. 439, or within the fire limits of the City of Albany.

The term "partition wall or partition wall," as used in this Ordinance or any of the Ordinances of the City of Albany, shall be held to mean all walls running through the entire length of the building.

The term "reinforced concrete" shall be understood to mean an approved concrete mixture reinforced by steel or iron of any shape, so that the steel or iron will take up all the tensional stress and assist in the resistance to compression and shear.

Before a permit to erect any reinforced concrete structure is issued, complete specifications and drawings shall be filed with the City Council, showing all details of the construction, size and position of all reinforcing rods, struts, etc., and giving the composition and proportions of the concrete.

The execution of the work shall be performed by workmen under the direction and supervision of a competent foreman or superintendent.

Reinforced concrete construction will be accepted for fire proof buildings of the first class if designed as hereinafter prescribed; provided, that the aggregate for such concrete shall be clean broken stone or clean graded gravel, together with clean vicicous sand, should the concrete be used for flooring between railed steel beams, steel frame columns, entirely free of . . . combustible matter, or suitable seasoned furnace slag may be used.

When stone is used with sand, gravel it must be of size to pass through a one inch ring, and 25% of the whole must not be more than one half the maximum size, and provided further, that the minimum thickness of concrete surrounding the reinforcing members of reinforced concrete beams and girders shall be two inches on the bottom

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and one and one half inches on the sides of the said beams and girders;

The minimum thickness of concrete under slab roads, shall be one inch. All reinforcements in columns to have a minimum protection of two inches of concrete.

All the requirements herein specified for the protection of steel, and fire-resisting purposes, shall apply to reinforced concrete flooring between rolled steel beams, as well as reinforced concrete beams, and to entire structure in reinforced concrete.

Any concrete structure, or the floor filling in piers, reinforced or otherwise, which may be erected on a permanent centering of sheet metal, or of metal lathing and curved bars, or a metal centering of any other form, must be strong enough to carry its load without assistance from the centering, unless the concrete is so applied as to protect the centering, as herein specified for metal reinforcement.

Exposed metal centering, or exposed metal of any kind will not be considered a factor in the strength of any part of any concrete structure, and a plastic finish applied over the metal shall not be deemed sufficient protection unless applied of sufficient thickness and properly secured, as approved by the City Council.

All concrete shall be mixed in a thorough manner, and all the material shall be measured for each batch.

The cement and fine gravel, or coarse sand shall be first thoroughly mixed dry, and then made into a mortar by gradually adding the proper amount of water. The crushed stone or gravel shall be spread out in a tight box or upon a proper floor, and be sprinkled with water as directed, and the whole mass turned over a sufficient number of times to effect the thorough mixing of the ingredients.

All forms and centering in concrete shall be built plumb and in a substantial manner, made tight so that no part of the concrete mixture will leak out through cracks or holes, or joints, and after completion shall be thoroughly cleaned, moving

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Shavings, chips, pieces of wood and other materials and no debris of any kind, shall be permitted to remain in the forms. All forms to be properly supported and braced in a manner to safely sustain the dead load that may be imposed upon them during construction.

The reinforcement steel shall be accurately braced in the forms and secured against displacement.

Concrete shall be placed immediately after mixing. Whenever ^{fresh} concrete joins concrete that is set or partially set, the surface of the old concrete shall be roughened, cleaned and spread with concrete mortar, which mortar shall be mixed in proportions of one of cement to two of sand.

Concrete shall not be mixed or deposited in freezing weather unless precautions are taken to avoid the use of material covered with ice or mud or that are in any other way unfit for use, and that further precautions are taken to prevent the concrete from freezing after being put in place.

All forms under concrete so placed to remain until all evidences of frost are absent from the concrete and the natural hardening of the concrete has proceeded to the point of safety.

Concrete laid during hot weather shall be drenched with water twice daily, Sunday included, during the first week. The broken stone, if hot and dry, must be wet before being mixed.

The time in which props or shores may safely be removed from under floors and roofs will vary with the condition of the weather, but in no case should they be removed in less than two weeks; provided, that column forms shall not be removed in less than four days; provided further, that the centering from the bottom of slabs and sides of beams and girders may be removed after the concrete has set one week; provided, that the floor has obtained sufficient hardness to sustain the dead weight of said floor, and that no load or weight shall be placed on any portion of the construction when the said centering has been removed.

The concrete for all girders, beams, slabs and columns shall be mixed in the proportions of one of cement, two of sand or fine gravel and four of

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other as a gargoyle as before provided.

The concrete used in reinforced concrete steel construction must be what is usually known as a "wet" mixture. When the concrete is placed in water, it must be placed in a semi-dry state.

Only Portland Cement shall be permitted in reinforced concrete structures buildings.

Halls - Reinforced concrete may be used in place of brick and stone walls, in which the thickness may be two thirds of that required for brick walls. Concrete walls in such cases must be reinforced in both directions in a manner to meet the approval of the City Council.

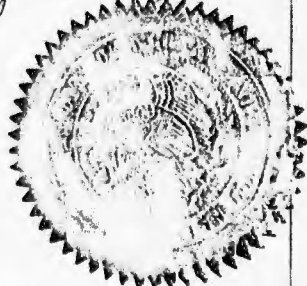
Steel - All reinforcements used in reinforced concrete shall be of standard grade of structural steel or iron of either grade to meet the manufacturer's standard specifications.

Section 3, This Ordinance shall be in full force and effect from and after thirty days from its approval by the Mayor.

Approved March 26th 1908

J. M. Redfield

Mayor of the City of Albany
Recorder of the City of Albany



City Recorder's Certificate.

STATE OF OREGON,
COUNTY OF LINN

F. M. REDFIELD.

I, J. S. VAN WINKLE, Recorder of the City of Albany, in Linn

County, and State of Oregon, do hereby certify that the foregoing ~~and annexed copy of~~

Ordinance No. 439

has been by me carefully compared with the original Ordinance Bill No. 473

now on file in my office, and that it is a true and correct copy of all and the whole of said

Ordinance Bill No. 473 as passed by the City Council of the City of Albany March 24th 1908

Witness, my hand and official signature and the seal of the City of Albany, this

26th day of March 1908

J. M. Redfield
Recorder of the City of Albany.