Cinders.—Coal cinders should be used wherever possible to cover the earth over area of Refrigerator in preference to sand or gravel.

Construction.

Foundations.—The foundations should be of stone or concrete, fourteen inches thick and two to three feet deep, according to the nature of the site.

Floor in Ice Chamber.—The area of the floor in the Ice Chamber should be graded with a slope of three inches to one corner. Lay rows of field tile three feet apart leading to the low corner and connect same to the drain outside the building. The connection should be trapped to prevent passage of air. Cover the tile with eight inches of coal cinders. If cinders are not procurable, clean gravel may be used. On top of cinders or gravel, lay loose boards. This forms the permanent floor of the Ice Chamber and provides drainage for the melting ice.

Floors in Refrigerator and Ante-room.-These floors may be made in one of the felowing ways:-

1. Lay four inches of concrete over area of floors. On top of this, lay three inches of cork board and finish with one inch of cement. (See detail drawing.)

2. Cover area of floor with six to eight inches of coal cinders or dry sand or gravel. Lay a $\frac{3}{4}$ " tongance and grooved floor on 2" x 4" joists. Cover with dampproof building paper and then place 2" x 6" joists at 24" centres. Fill space between joists with planing mill shavings and cover with $1\frac{1}{4}$ " flooring tongued and grooved. (See detail drawing.)

NOTE.-The concrete cork board floor is much the best and being of permanent construction will be the cheapest in the end.

Walls of Ice Chamber, Refrigerator and Ante-room.—Erect two rows of 2" x 4" studs, "staggered," so as to leave a space of 12 inches between the inside and outside sheathing to be filled with shavings. Cover the outside with one course of $\frac{2}{6}$ " tongued and grooved lumber (spruce preferred), two ply of felt building paper, and finish with siding or clapboards uniform with the creamery building. Cover the inside of the studs with two courses of $\frac{2}{6}$ " tongued and grooved spruce sheathing, with two ply of damp-proof paper between. On the inside of the Ice Chamber only erect an additional course of $\frac{2}{6}$ " tongued and grooved spruce sheathing on one inch furring strips so as to leave a one inch air space. This will check the moisture from the ice and thus preserve the wall and insulation from decay.

Ceilings.—Erect 2" x 8" joists at 24 inch centres. Cover under side of joists with two courses of $\frac{1}{2}$ " tongued and grooved spruce sheathing, with two ply of dampproof paper between. Finish ceiling of Ice Chamber with an additional course of $\frac{1}{2}$ " tongued and grooved spruce over one inch furring strips, same as specified for walls of Ice Chamber.

Partitions.—Partition between Ice Chamber and Ante-room, and between Ice Chamber and Refrigerator, to be constructed in the same manner as the outside walls. Partition between Refrigerator and Ante-room to be constructed with $2'' \ge 6''$ studding covered on both sides with two courses of $\frac{1}{2}''$ tongued and grooved spruce sheathing with two ply of felt paper between.

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