



Project Distribution Ltd
Unit 1 Sun Street, Stoke on Trent ST1 4JW
Tel:01782 280289 Fax: 01782 215955
www.prodis.co.uk sales@project-distribution.co.uk

Project

Location

Item#

QTY

Calculation of flaked ice requirements for FISK display counters



Please use the below calculation to estimate the amount of flaked ice required to fill the deck of a FISK fresh fish display. These calculations are based on the density of the flaked ice produced by the Prodis GR series ice flakers. To calculate the requirements with other ice machines please ask the manufacturer for their ice density Kg/m³ value.

Deck Size / Ice Volume Calculation



FISK30

DV. The volume of ice required for a FISK30 is calculated as follows

$$2.847m \times 0.95m \times 0.18m = 0.487m^3 \text{ of flaked ice}$$



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Points to be considered

ID. Ice density of flaked ice produced by the Prodis GR Series ice

flakers:

917Kg/m³

IV. Voids present in a flaked ice mass:

50% (coefficient 0.5)

IL. Estimated % of ice lost during handling:

10% (coefficient 0.9)

Ice mass calculation formula

Ice Kg required = (vol m³ x ice density Kg x ice voids coefficient / ice loss coefficient

DV x ID x IV / IL = IR

Example based on a FISK30 deck volume (DV)

0.487 x 917 x 0.5 / 0.9 = 248.09Kg of flaked ice

Conclusion

The above calculations have been made as an example using the Prodis FISK30 display deck and flaked ice produced by the Prodis GR series of ice flakers.

When calculating your ice requirements from other manufacturers it is important to check the production values of your ice maker keeping in mind the ambient air and water temperature supplied to the ice maker as the production capacity may vary.

It is also important to check the storage bin size of your ice maker to ensure that there is ample ice to completely fill the deck of the fish counter

For further information on the Production and Storage values of the Prodis GR series ice flakers please visit our website at www.prodis.co.uk or contact our sales team on +44 1782 280289



Approvals

Available At

Document #

