COOLING TOWER INSTITUTE

CTI CODE TOWER
Standard Specifications

For the Design of Cooling Towers With Douglas Fir Lumber

Provided by : www.spic.ir

Revised February 07

STD-114 (07)

Documents
Document Sharing Hub

Full document details: CTI STD-114 2007

Foreword

This Cooling Technology Institute (CTI) publication is published as an aid to cooling tower purchasers and designers. It may be used by anyone desiring to do so, and efforts have been made by CTI to assure the accuracy and reliability of the data contained herein. However, CTI makes no warranty of fitness for particular purpose or merchantability nor any other warranty expressed, implied or statutory. In no event shall CTI be liable or responsible for Incidental, Consequential or Commercial losses or damage of any kind resulting from this publication's use; or violation of any federal, state, or municipal regulation with which this publication may conflict or for the infringement of any patent resulting from the use of this publication.

All CTI codes and standards are copyrighted with all rights reserved to CTI. The reproduction of any part of this or any other CTI code or standard is a violation of Federal Law. One must recognize and appreciate commitment by a number of volunteer members who donate their time to develop and update CTI codes and standards. The monies spent for code development, administrative staff support and publication are essential and constitute a substantial drain on CTI. The purchase price of these documents helps to offset these costs. Reproduction and distribution by others, in addition to being unethical, undermines this system and constitutes a further financial drain on CTI. When copies are needed, you are requested to call or write the Cooling Technology Institute, P.O. Box 73383, Houston, Texas 77273, (281) 583-4087. Please request that your associates buy the required codes and standards rather than copy them. Your cooperation in this matter is greatly appreciated.

Nothing contained herein is to be construed as granting any right for the manufacture, sale or use in connection with any method, apparatus, or product covered by letters patent, nor as insuring anyone against liability for infringement of letters patent.

This guideline document summarizes the best current state of knowledge regarding the specific subject. This document represents a consensus of those individual members who have reviewed this document, its scope and provisions. It is intended to aid all users or potential users of cooling towers.

Approved by the CTI Executive Board.

This document has been reviewed and approved as part of CTI's Five Year Review Cycle. This document is again subject to review in 2012.

Copyright 2007
by Cooling Technology Institute
Printed in U.S.A.

Provided by : www.spic.ir

Documents
Document Sharing Hub

Full document details: CTI STD-114 2007

TABLE OF CONTENT

Page

Part I Scope, Abbreviations, Other Standards and Definitions

1.0 Scope 5

2.0 Abbreviations 5

3.0 Other Standards and Specifications 5

4.0 Definitions of Members 5

Part II Grades of Douglas Fir Lumber

5.0 Purpose 6

6.0 Application of RIS Specifications 6

7.0 Definitions of Grades and Treating Requirements for Framework Members 6

8.0 Definitions of grades for Non-Framework Members 6

9.0 Definition of Fill 6

Part III Design Considerations

10.0 Scope 6

11.0 Design Criteria and Allowable Design Values 6

12.0 Design Data 8

Tables

Table 103-A 10

Table 103-B Size Adjustment Factor Cf 10

Table 103-C Temperature Adjustment Factor, C_t[1] 11

Table 103-D Moisture Adjustment Factor C_m 11

Provided by : www.spic.ir

Documents
Document Sharing Hub

Full document details: CTI STD-114 2007

Provided by : www.spic.ir

Documents
Document Sharing Hub

Full document details: CTI STD-114 2007