

NOTICE

This booklet is a guide to the selection and installation of acoustical ceilings. For more information, consult your local CISCA member. By publishing this guide, CISCA and its member companies make no express or implied warranty or other representation as to the quality, characteristics, or suitability of the materials or techniques described herein and specifically disclaim any implied warranties of merchantability or fitness for a particular purpose which may arise by operation of law or otherwise.

TABLE OF CONTENTS

Description of CISCA and Purpose	1
3.0 Basic Properties of Sound	1
3.1 Sound Generation.....	2
3.2 Direct Sound	3
3.3 Reflected Sound	3
3.4 Absorption of Sound	3
3.5 Room Absorption	3
3.6 Reverberation	4
3.7 Reverberation Time	4
3.8 Sound Transmission.....	5
3.8.1 Room Absorption.....	5
3.8.2 Transmission Loss.....	5
3.8.3 Frequency.....	6
4.0 Basic Properties of Acoustical Materials	6
4.1 Sound Absorption	6
4.2 Ceiling Sound Attenuation	8
4.3 Light Reflectance	10
4.4 Flame Spread.....	10
4.5 Fire Resistance.....	10
4.6 Appearance of Acoustical Materials	10
4.7 Permanence and Maintenance	11
4.8 Open Plan Acoustics	11
5.0 Installation Recommendations	12
5.1 Job Conditions.....	13
5.2 Installation Methods	14
5.3 Insulated Ceilings.....	15
5.4 CISCA Code of Practice	16
6.0 Glossary	17
7.0 Table of Sound Absorption Coefficients	18

Authorized and published under the direction of the
Ceilings & Interior Systems Construction Association, St. Charles, Illinois.

Copyright 1978, 1984 and 1999 by Ceilings & Interior Systems Construction Association
All rights reserved