Ashrae standard 183 pdf

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Designation: D1238 - 25

Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer*

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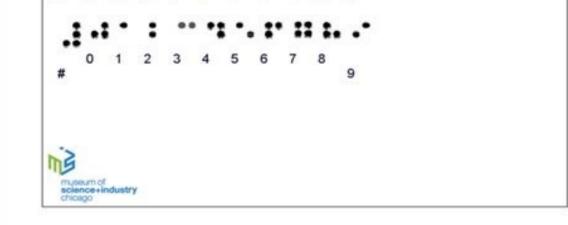
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SQL Workbench/J User's Manual

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2019 Crawford County Land Conservation Photo Contest Entry Form Entries due by November 1, 2019

Entry form and photo release form(s) must be sent before photo is eligible for judging

- 1. Fill out this form. One form for each photo entry. Participants can enter as many as five photos total each year
- 2. Fill out photo release form. One form for each photo entry.
- 3. Fill out subject and model release form(s) with signatures (only needed if people are visible in photo).
- 4. Mail/email original signed completed forms: Crawford County LCPZD, 225 N. Beaumont Rd. Suite 230, Prairie du Chien, WI 53821.
- 5. E-mail digital photo(s) to: bnagel@crawfordcountywi.org

Photographer's Name				
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Any and all photos entered in this contest can be used by the Crawford County Land Conservation Planning & Zoning Department in the future. The photos are to represent the Conservation in Crawford County. By entering this contest you are giving permission to use this photograph. Should your photograph win there will be additional forms needed to move onto the National Competition.

LIMITED LIABILITY COMPANY OPERATING AGREEMENT

, LLC A Momb **OPERATING AGREEMENT**

THIS OPERATING AGREEMENT is made and entered into effective 0_____, by and among:

[ist the full legal names of the LLC members] (collectively referred to in this agreement as the

SECTION 1 THE LIMITED LIABILITY COMPANY Formation. Effective ______, 20____, the Members form a limited liability company under the name ______. L.L.C. (the "Company") on the terms and conditions in this Operating Agreement (the

Agreement's part company () use to terms and consistent on the operand parameter (or Agreement's and pursuant to be Limited Liability Company Act the State of Cklahoma (the "Act"). The Members agree to file with the appropriate agreey within the State of Okkahoma charged with processing and manitaining such records all documentation required for the formation of the Company. The rights and obligations of the parties are as provided in the Act except as otherwise expressly provided in this

1.3 Purpose.
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1.4 Office. The purpose of the Company will is to engage in any lawful act or activity for which a Limited Liability Company may be formed within the State of Oklahoma.
1.4 Office. The Company will maintain its principal business office within the State of Oklahoma at the following address:

Registered Agent. _______ is the Company's initial registered agent in the State of Oklahoma, and the registered office is

 Form. The term of the Company commences on shall continue perpetually unless sooner terminated as provided in this Agr 1.7 Names and Addresses of Members. The Members' names and addresses hedule 1 to this Agreement. as Schedule 1 to this Agreement. **1.8** Admission of Additional Members. Except as otherwise expressly provided in this Agreement, no additional members may be admitted to the Company through issuance by the company of a new interest in the Company without the prior unanimous written consern

SECTION 2 CAPITAL CONTRIBUTIONS 2.1 Initial Contributions. The Members initially shall contribute to the Company capital as described in Schedule 2 attached to this Agreement.

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The store will not work correctly in the case when cookies are disabled. This site has been tested and optimized for Firefox, Safari, Chrome and Internet Explorer to update to Version 11 or later. ASHRAE/ACCA Standard 183 establishes requirements for performing peak cooling and heating load calculations for buildings except low-rise residential buildings. Las opiniones de clientes, incluidas las valoraciones de producto adecuado para ellos. Para calcular la valoraciA³n global y el desglose porcentual por estrella, no utilizamos un promedio simple. En cambio, nuestro sistema considera cosas como la actualidad de la opiniÃ³n y si el revisor comprÃ³ el producto en Amazon. TambiÃ[©]n analiza las opiniones para verificar la confiabilidad. MÃ₁s informaciÃ³n sobre cÃ³mo funcionan las opiniones de clientes en Amazon ANSI/ASHRAE/ACCA Standard 1 83-2007 (RA 201 4) (Reaffirmation of AN SI /ASH RAE/ACCA Standard 1 83 -2007) Peak Cooling and Heating Load Calculations in Buildings Approved by the ASH RAE Standards Committee on J anuary 27, 2007, and reaffirmed J une 28, 201 4; by the ASH RAE Board of Directors on M arch 2, 2007, and reaffirmed J uly 2, 201 4; by Air Conditioning Contractors of America on M arch 5, 2007, and reaffirmed M arch 17, 2014; and by the American N ational Standards are scheduled to be updated on a five-year cycle; the date foll owing the standard number is the year of ASH RAE Board of Directors approval . The latest edition of an ASH RAE Standard may be purchased on the ASH RAE website (www. ashrae. org) or from ASH RAE Customer Service, 1 791 Tul lie Circle, N E, Atl anta, GA 3 03 29-23 05 . E-mail: org. Fax: 678-5 3 9-21 29. Tel ephone: 404-63 6-8400 (worldwide) or tol l free 1 -800-5 27-4723 (for orders in U S and Canada). For reprint permission, go to www. ashrae. org/permissions. © 201 4 ASH RAE I SSN 1 041 -23 3 6 Copyright American Society of Heating, Refrigerating and Air-Conditioning Engine ASHRAE Standard Project Committee 1 83 Cognizant TC: TC 4.1 , Load Calculation Data and Procedures SPLS Liaison: Ross D. Montgomery Christopher K. Wilkins, Chair* Phil D. Forner, Vice Chair* Constantinos A. Balaras* Steven F. Bruning* Terry L. Cornell* Robert C. Doeffinger, Jr.* Glenn Friedman* Patricia E. Jones* Curtis O. Pedersen James F. Pegues* Henry T. Rutkowski* John Sedine* Jonathan C. Spreeman* Arunkumar T. Vedhathiri* *Denotes members of voting status when the document was approved for publication ASHRAE STANDARDS COMMITTEE 201 3-201 4 William F. Walter, Chair Richard L. Hall, Vice-Chair Karim Amrane Joseph R. Anderson James Dale Aswegan Charles S. Barnaby Steven F. Bruning John A. Clark Waller S. 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Compliance with this standard is voluntary until and unless a legal jurisdiction makes compliance mandatory through legislation. ASHRAE obtains consensus through participation of its national and international members, associated societies, and public review. ASHRAE Standards are prepared by a Project Committee appointed specifically for the purpose of writing the Standard. The Project Committee Chair and Vice-Chair must be members of ASHRAE; while other committee members may or may not be ASHRAE members, all must be technically qualified in the subject area of the Standard. Every effort is made to balance the concerned interests on all Project Committees. The Manager of Standards of ASHRAE should be contacted for: a. interpretation of the contents of this Standard, b. participation in the next review of the Standard, c. offering constructive criticism for improving the Standard, or d. permission to reprint portions of the Standards and Guidelines for the benefit of the public in light of available information and accepted industry practices. However, ASHRAE does not guarantee, certify, or assure the safety or performance of any products, components, or systems tested, installed, or operated in accordance with ASHRAE's Standards or Guidelines will be nonhazardous or free from risk. 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Copyright American Society of Heating, Refrigerating and Air-Conditioning Engine CONTENTS ANSI/ASHRAE/ACCA Standard 1 83-2007 (RA 201 4), Peak Cooling and Heating Load Calculations in Buildings Except Low-Rise Residential Buildings SECTION PAGE Foreword 2 1 Purpose 3 5 Weather Data and Indoor Design Condition ... 4 7 External Heat Gains 3 6 Cooling Load Method 4 8 Internal Heat Gains.. 4 1 0 System Cooling and Heating Loads 4 9 Heating Load 5 Informative Appendix B: Recommended ASHRAE/ACCA Compliance Form for Standard 1 83-2007 6 NOTE Approved addenda, errata, or interpretations for .. 4 Informative Appendix A: Choice of Methods... this standard can be downloaded free of charge from the ASHRAE Web site at www.ashrae.org/technology. © 201 4 ASHRAE 1 791 Tullie Circle NE · Atlanta, GA 30329 · www.ashrae.org · All rights reserved. ASHRAE is a registered trademark of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. ANSI is a registered trademark of the American Society of Heating. trademark of the American National Standards Institute. Copyright American Society of Heating, Refrigerating and Air-Conditioning Engine (This standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative effort between ASHRAE and ACCA, the Air Conditioning Contractors of America. It establishes minimum requirements for performing peak cooling and heating load calculations, the intent of this standard is to establish a minimum level of requirements that is as inclusive of as many methods as possible while still being restrictive enough to mandate an appropriate level of care and accuracy. An accuracy estimate of peak cooling or heating load requires not only that a sound method be used but also that occur outside and inside a conditioned building are complex and involve many interrelated variables. All load calculation methods therefore involve some level of simplification of the security complex and interactions among these variables. method are technical to the extent that they address these simplifications of the fundamental heat transfer interactions. If a method sust to the extent that these methods used and the techniques that these methods use to address the fundamental heat transfer interactions. There is a distinction in this standard between zone load, but it is impossible to completely decouple the system load or capacity calculation. Systems and the processes to calculate their loads or capacities vary dramatically. Some aspects of the overall approach to systems are included in this standard, but the standard is not intended to be a comprehensive or detailed discussion ofhow to calculate system loads. Users of this standard are cautioned not to confuse zone heat gain with system sizing. This is a reaffirmation of Standard 183-2007. This standard was prepared under the auspices of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE). It may be used, in whole or in part, by an association or government agency with due credit to ASHRAE. Adherence is strictly on a voluntary basis and merely in the interests of obtaining uniform standards throughout the industry. This version of the reaffirmation includes no changes. Copyright American Society of Heating, Refrigerating and Air-Conditioning Engine 1. PURPOSE This standard establishes requirements for performing peak cooling and heating. 2. SCOPE Thisserating and Air-Conditioning Engine 1. standard sets minimum requirements for methods and procedures used to perform peak cooling and heating load calculations for buildings. 3. DEFINITIONS, AND ACRONYMS 3.1 Terms Defined in this Standard beam solar: the component of solar radiation received from the sun without being scattered by the atmosphere or reflected by other surfaces. building location: for purposes of load calculation, the building's latitude and longitude or the country, state, and city. convective heat gain: the portion of a heat gain that is transferred by convection to air inside a building. cooling load of a zone or an HVAC system. diffuse solar: the component of solar radiation composed of the sky diffuse and ground diffuse solar flux. design conditions, the air temperature and/or humidity, and solar flux. requirements for a zone or a building. diversity: adjustments to internal heat gains made to account for the fact that the instantaneous heat output of all loadproducing items. The instantaneous load is discounted for factors such as on-off cycles, occupancy schedules, duty cycles, and reduced power input. fenestration: windows, skylights, and doors. Fenestration is typically composed of multiple components or assemblies, such as framing, glazing, dividers, and mullions. flux: energy flow rate per unit surface area. ground diffuse solar: the component of solar radiation received after being reflected by ground surfaces surrounding a building. heat gain: the rate at which heat enters a surface, an airstream, or a zone. Heat gain is classified by its mode (convective or radiant) and by whether it is a sensible or latent gain. The radiant portion of heat gain becomes cooling load by a conversion process over time that causes a delay between the time the heat gain occurs and the time the heat is converted to cooling load. heating load: for zones, the rate at which heat must be added to maintain indoor design conditions. For systems, the rate at which heat must be added to maintain indoor design conditions. beam, sky diffuse, and ground diffuse solar flux received by fenestration and opaque building surfaces. infiltration: the flow of outdoor air into a building surfaces. internal equipment that is located in the zone or building and that generates heat (e.g., computers, copy machiners, laboratory equipment, kitchen equipment, motors, factory machinery). internal heat gain: heat that is generated from sources that are within the zone (e.g., people, lights, equipment). latent cooling load: for zones, the rate at which moisture must be removed from the zone to maintain indoor design humidity. For systems, the rate at which heat is removed at a cooling coil or dehumidifying device in order to condense or remove moisture from the supply airstream or dehumidified space. sensible cooling load: for zones, the rate at which heat must be removed from the zone to maintain indoor design temperature. For systems, the rate at which heat is removed at the apparatus in order to reduce the temperature of the supply airstream. sensible heat gain: an energy gain to a zone that occurs when heat is directly added to the zone through convection, conduction, and/or radiation. atmosphere. solar heat gain: energy from the sun that enters a zone through fenestration. thermal mass effect: the ability of an opaque envelope component to dampen and delay transfer of heat. time delay: the time interval between heat transfer events in a zone or building. temperature-driven heat gain: the heat gain or loss due to the difference between the indoor temperatures. latent heat gain: an energy gain to a zone that occurs when moisture is added to the air in the zone. zone: a room or space or group ofrooms or spaces in a building. load factor: the ratio of actual power use to rated or nameplate power for equipment. For example, equipment with a nameplate rating of 250 W may have a peak measured power of 1 80 W. In this example, an internal heat gain of 1 80 W should be used rather than 250 W for load calculations. 3.2 Abbreviations and Acronyms Used in This Standard low-rise residential: single-family houses, multi-family structures of three stories or fewer above grade, and manufactured houses, which includes both mobile homes and modular homes. methods that comply with this standard include, but are not limited to: • the cooling load temperature difference/cooling load factor (CLTD/CLF) family of methods, • total equivalent temperature difference/time averaging (TETD/TA) methods, and • heat balance (HB) methods, and • heat balance (HB) methods, or heating load or heating lo calculated based on design conditions. radiant heat gain to surfaces within the zone or the building. reheat is often discouraged by energy codes. Copyright American Society of Heating, Refrigerating and Air-Conditioning Engine zone load: the cooling load or heating load occurring in a zone. HVAC: heating, ventilating, and air conditioning. 4. COMPLIANCE 4.1 Where validation of compliance with this standard is part of a permit or other review process, documentation shall be provided indicating that the method used, the assumptions, and the execution of this standard. Note: The requirements of this standard. 4.3 Inputs to a method shall utilize data and perform calculations in a manner that meets the requirements of this standard. determined in a manner that meets the requirements of this standard. 5. WEATHER DATA AND INDOOR DESIGN CONDITIONS 5.1 Indoor design conditions shall use values ofoutdoor air temperature and humidity for the building use, the building location, time of year, and time of day. 5.3 Solar radiation for cooling calculations shall use solar flux conditions for the building location. 6. COOLING LOAD METHOD 8.4 6.1 The calculation method shall account for convective heat gain, radiant heat gain, and the thermal mass effect on cooling load calculation shall address the hours of the year necessary to establish the peak cooling load and the hours of the year necessary to establish the peak cooling load and the hours of the day and months of the year necessary to establish the peak cooling load and the hours of the year necessary to establish the peak cooling load and the hours of the year necessary to establish the peak cooling load and the hours of the year necessary to establish the peak cooling load and the hours of the year necessary to establish the peak cooling load and the hours of the year a number of possible hours. 6.2 7. EXTERNAL HEAT GAINS 7.1 Fenestration 7.1.1 The calculation method shall account for both temperature-driven heat gains from lighting and internal equipment shall consider their operation schedules and load factors. Evaluation of heat gains from lighting equipment shall account for heat transfer to the ceiling plenum (if applicable). 9. HEATING LOAD Heating load calculations shall be based on peak temperature-driven heat gains and for internal heat gains and for internal heat gains shall not be included as part of the calculation of the peak heating load. Where constant or permanent internal heat gains are known to be present in the zone to be heated, the peak heating load may be adjusted to account for these available heat gains. Exception: 7.1 .2 The temperature-driven heat gain shall be calculated from incident solar flux and the solar performance of the entire fenestration assembly. 7.1 .4 The solar heat gain calculation shall account for interior shading from devices are present. The solar heat gain calculation shall account for interior shading from devices are present. heat gain of opaque building envelope components shall account for solar radiation and temperature-driven heat gain, shall consider the time delay occurring as heat is conducted through the material layers. 7.2 7.3 Infiltration. The calculation method shall account for separate sensible and latent infiltration heat gains when infiltration exists. 8. INTERNAL HEAT GAINS 8.1 Internal heat gains shall be accounted for when it exists. 9.4 Heating load calculations shall account for cold processes or equipment in the zone that absorbs heat (for example, some refrigerated cases). 1 0. SYSTEM COOLING AND HEATING LOADS 1 0.1 Cooling and heating system loads shall account for the capacity required to accomplish psychrometric processes. Psychrometric processes include conditioning for reheat, dehumidification, humidification, and air mixing. 1 0.2 Energy from fans and pumps used in cooling systems shall be accounted for in system loads. 1 0.3 1 0.4 Duct leakage shall be accounted for in determining system loads. 1 0.3 1 0.4 Duct leakage shall be accounted for in determining system loads. data. 1 0.5 8.2 Sensible and latent heat gain components of all internal gain contributors shall be considered separately. Diversity due to variations in actual occupancy, lighting, or equipment use shall be considered separately. their activity levels, and the occupancy schedule. 1 0.7 Based on the specific type of system designed, the system cooling and heating loads shall account for inherent system inefficiencies such as damper leakage. Copyright American Society of Heating, Refrigerating and Air-Conditioning Engine 1 0.6 (This appendix is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to appeal to ASHRAE or ANSL) INFORMATIVE APPENDIX A CHOICE OF METHODS Modeling the heat interactions in a building is complex, often involving many interrelated variables. It would be impossible for practical calculations to address all interactions in a building is complex, often involving many interrelated variables. It would be impossible for practical calculations to address all interactions in a building is complex. interactions. Simplified methods are not necessarily less accurate. In fact, according to the availability of accurate information and the design engineer's judgment in the assumptions made in interpreting the available data. Those factors have much greater influence on a project's success than does the choice of a particular cooling. It should be noted, however, that simplified nethods inherently involve more simplifications and fixed assumptions than more rigorous methods. If the building or zone in ques- Copyright American Society of Heating, Refrigerating and Air-Conditioning Engine tion has components that match the assumptions of a simplified method, then the method can be used to obtain an accurate result. On the other hand, if the components do not match the assumptions that were made in deriving the simplified method, then the results may not be accurate. With any method—but in particular with more simplified methods—it is important to understand the specific assumptions that are embedded and whether these approximate the building being considered. This standard includes a specific reference to five

commonly known load calculation methods (see Section 3, Definitions, Abbreviations and Acronyms). These specific methods are indicated as examples and are not intended to be an exclusive list. It is expected that newer and hopefully better methods will continue to be developed. New methods or existing methods that are not specifically referenced are able to meet the requirements of this standard as long as they properly consider the load elements described in this standard. Many methods can be practically executed only by using a computer, but it is recognized that manual methods have a place in the industry as well. Computerized methods can be practically executed only by using a computer, but it is recognized that manual methods have a place in the industry as well. specific time of the peak cooling load for each building and/or individual zone. When applying a manual method, it is not practical to perform every iteration to check all hours for all zones. The peak hours can usually be determined by applying a province and professional judgment to check all hours for all zones. cooling load is not properly identified due to poor judgment or an insufficient number of iterations, then a significant error could result. (This appendix is not part of this standard. It is merely informative and does not contain requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal to ASHRAE or ANSI) INFORMATIVE APPENDIX B RECOMMENDED ASHRAE/ACCA COMPLIANCE FORM FOR STANDARD 1 83 Building or Zone Name: Location or Address: Design Conditions: Cooling Heating Weather Data Used Indoor Dry Bulb Design Temperature Indoor Design Relative Humidity Load Calculation Methods is used.) J CLTD/CLF—Cooling Load Temperature Difference/Cooling Load Factor methods J TETD/TA—Total Equivalent Temperature Difference/Time Averaging methods J TFM—Transfer Function Methods J RTS—Radiant Time Series methods J OTHER (please specify) The undersigned attests that the above information is correct and that the procedures used to perform the load calculations comply with ANSI/ASHRAE/ACCA Standard 1 83. Signed: Submitted by: Copyright American Society of Heating, Refrigerating and Air-Conditioning Engine Date: Dote to both the indoor and outdoor environment. ASHRAE's members will strive to minimize any possible deleterious effect on the indoor and outdoor environment of the systems and components in their responsibility while maximizing the beneficial effects these systems and components in their responsibility while maximizing the beneficial effects these systems and components in their responsibility while maximizing the beneficial effects these systems and components in their responsibility while maximizing the beneficial effects these systems and components in their responsibility while maximizing the beneficial effects these systems and components in their responsibility while maximizing the beneficial effects these systems and components in their responsibility while maximizing the beneficial effects these systems and components in the systems and com range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the standards and guidelines as established by itself and other responsible bodies. As an ongoing goal, ASHRAE will, through its Standards Committee and extensive technical committee structure, continue to generate up-to-date standards and guidelines where appropriate and adopt, recommend, and promote those new and revised standards developed by other responsible organizations. Through its Handbook, appropriate chapters will contain up-to-date standards and design considerations as the material is systematically revised. ASHRAE will take the lead with respect to dissemination of environmental information of its primary interest and will seek out and disseminate information from other responsible organizations that is pertinent, as guides to updating standards and guidelines. The effects of the design and selection of equipment and systems will be considered within the scope of the system's intended use and expected misuse. The disposal of hazardous materials, if any, will also be considered. ASHRAE's primary concern for environmental impact will be at the site where equipment within ASHRAE's scope operates. However, energy source selection and the possible environmental impact due to the energy source and energy transportation will be considered where possible. Recommendations concerning energy source selection should be made by its members. Copyright American Society of Heating, Refrigerating and Air-Conditioning Engine ASHRAE · 1 791 Tullie Circle NE · Atlanta, GA 30329 · www.ashrae.org About ASHRAE ASHRAE, founded in 1 894, is an international building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration, and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow's built environment today. 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