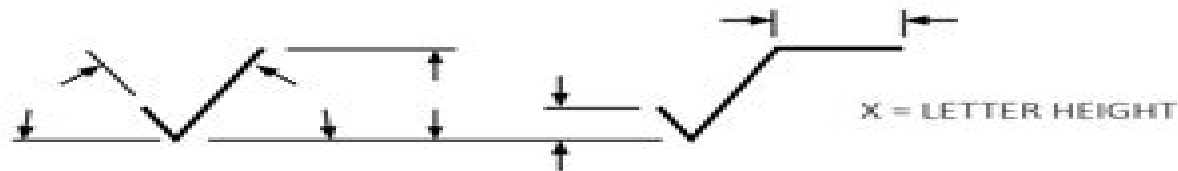


# ISO SURFACE FINISH SYMBOLS AND CALLOUTS

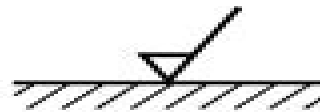


## REMOVAL OF MATERIAL

SURFACE MAY BE PRODUCED  
BY ANY METHOD



MATERIAL REMOVAL  
REQUIRED



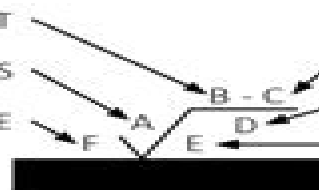
MATERIAL REMOVAL  
PROHIBITED



MAXIMUM WAVINESS HEIGHT

ROUGHNESS AVERAGE VALUES

MACHINING ALLOWANCE



MAXIMUM WAVINESS  
SPACING

ROUGHNESS SAMPLING  
LENGTH

LAY SYMBOL

EXAMPLE

63  
32

.002-4  
┴ .05

BASIC SURFACE TEXTURE SYMBOL



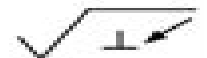
MAXIMUM WAVINESS SPACING  
RATING (C). SPECIFY IN INCHES OR  
MILLIMETERS, HORIZONTAL BAR  
ADDED TO BASIC SYMBOL



ROUGHNESS AVERAGE VALUES (A).  
SPECIFY IN MICROINCHES,  
MICROMETERS, OR ROUGHNESS  
GRADE NUMBERS



LAY SYMBOL (E)



MAXIMUM AND MINIMUM ROUGHNESS  
AVERAGE VALUES (A), SPECIFY IN  
MICROINCHES, MICROMETERS, OR  
ROUGHNESS GRADE NUMBERS.



ROUGHNESS SAMPLING LENGTH  
OR CUTOFF RATING (D). WHEN NO  
VALUE IS SHOWN USE .03 INCH (0.8  
MILLIMETERS).



MAXIMUM WAVINESS HEIGHT RATING (B)  
SPECIFY IN INCHES OR MILLIMETERS.  
HORIZONTAL BAR ADDED TO BASIC  
SYMBOL.



MACHINING ALLOWANCE (F).  
SPECIFY IN INCHES OR  
MILLIMETERS.



NOTE: WAVINESS IS NOT USED IN ISO STANDARDS.

# Mechanical Drawing Standards Surface Finish Symbols

**Anees Ahmad**



## **Mechanical Drawing Standards Surface Finish Symbols:**

Mechanical Drawing ,1920      *Handbook of Optomechanical Engineering* Anees Ahmad,2018-12-07 Good optical design is not in itself adequate for optimum performance of optical systems The mechanical design of the optics and associated support structures is every bit as important as the optics themselves Optomechanical engineering plays an increasingly important role in the success of new laser systems space telescopes and instruments biomedical and optical communication equipment imaging entertainment systems and more This is the first handbook on the subject of optomechanical engineering a subject that has become very important in the area of optics during the last decade Covering all major aspects of optomechanical engineering from conceptual design to fabrication and integration of complex optical systems this handbook is comprehensive The practical information within is ideal for optical and optomechanical engineers and scientists involved in the design development and integration of modern optical systems for commercial space and military applications Charts tables figures and photos augment this already impressive handbook The text consists of ten chapters each authored by a world renowned expert This unique collaboration makes the Handbook a comprehensive source of cutting edge information and research in the important field of optomechanical engineering Some of the current research trends that are covered include      A.S.M.E. Mechanical Catalog and Directory ,1956      **Notes on Mechanical Drawing** Horace Pugh Fry,1906

## **Department Of Defense Index of Specifications and Standards Numerical Canceled Listing (APPENDIX) Part IV September 2005 ,      *Mechanical Catalog* ,1918      Blueprint Reading And Sketching Including Machine Drawings;**

Piping Systems; Electrical and Electronics Prints; Architectural and Structural Steel Drawings , Chapter 1 BLUEPRINTS When you have read and understood this chapter you should be able to answer the following learning objectives Describe blueprints and how they are produced Identify the information contained in blueprints Explain the proper filing of blueprints Blueprints prints are copies of mechanical or other types of technical drawings The term blueprint reading means interpreting ideas expressed by others on drawings whether or not the drawings are actually blueprints Drawing or sketching is the universal language used by engineers technicians and skilled craftsmen Drawings need to convey all the necessary information to the person who will make or assemble the object in the drawing Blueprints show the construction details of parts machines ships aircraft buildings bridges roads and so forth BLUEPRINT PRODUCTION Original drawings are drawn or traced directly on translucent tracing paper or cloth using black waterproof India ink a pencil or computer aided drafting CAD systems The original drawing is a tracing or master copy These copies are rarely if ever sent to a shop or site Instead copies of the tracings are given to persons or offices where needed Tracings that are properly handled and stored will last indefinitely The term blueprint is used loosely to describe copies of original drawings or tracings One of the first processes developed to duplicate tracings produced white lines on a blue background hence the term blueprint Today however other methods produce prints of different colors The colors may be brown black gray or maroon The differences are

in the types of paper and developing processes used A patented paper identified as BW paper produces prints with black lines on a white background The diazo or ammonia process produces prints with either black blue or maroon lines on a white background Another type of duplicating process rarely used to reproduce working drawings is the photostatic process in which a large camera reduces or enlarges a tracing or drawing The photostat has white lines on a dark background Businesses use this process to incorporate reduced size drawings into reports or records The standards and procedures prescribed for military drawings and blueprints are stated in military standards MIL STD and American National Standards Institute ANSI standards The Department of Defense Index of Specifications and Standards lists these standards it is issued on 31 July of each year The following list contains common MIL STD and ANSI standards listed by number and title that concern engineering drawings and blueprints

**Index of Specifications and Standards**, 2005      **Fundamentals of Modern Manufacturing** Mikell P. Groover, 2016-01-11 Fundamentals of Modern Manufacturing Materials Processes and Systems 6th Edition is designed for a first course or two course sequence in Manufacturing at the junior level in Mechanical Industrial and Manufacturing Engineering curricula As in preceding editions the author's objective is to provide a treatment of manufacturing that is modern and quantitative The book's modern approach is based on balanced coverage of the basic engineering materials the inclusion of recently developed manufacturing processes and comprehensive coverage of electronics manufacturing technologies The quantitative focus of the text is displayed in its emphasis on manufacturing science and its greater use of mathematical models and quantitative end of chapter problems

*Mechanical Catalog*, 1953  
*Manufacturing Engineering and Management*, 1960      **CAD\*I Drafting Model** Richard Schuster, Dietmar Trippner, Michael Endres, 2013-12-01 The content of this book is an information model for technical drawings the so called Drafting Model The Drafting Model is a part of a complex information model describing product definition data their applications and their representations The definition of the information model is a central component of the development of STEP a future international standard for the exchange of product definition data Here the Drafting Model particularly encloses descriptions for the representations of organizational drawing data tolerances dimensions and surface attributes such as surface finish symbols a survey of the whole content is shown in the figure above Additional to that requirements for the Presentation Model concerning the representation of geometry as well as the integration process for both the Drafting and the Presentation Models are formulated The extent of the Drafting Model is restricted to the application area Mechanical Engineering Within the Drafting Model the annotation representations are described on the one hand informally and on the other hand formally using a high level language for information modeling EXPRESS Principally the representations of the annotation are described according to the international drawing standards Thus the semantics pertinent to the specific graphical appearance are maintained The data structures provide formal descriptions of annotations at a high generation level which means that a way is defined how to generate these annotations

*Universal Dictionary of Mechanical Drawing*

George Herbert Follows,1906      Self-taught Mechanical Drawing and Elementary Machine Design ... F. L. Sylvester,1910  
**Machine Drawing** Carl Lars Svensen,1921      Machine Drawing Problems Edward Berg,George Elleson,1921  
**Mechanical Drawing** ,1980 A textbook introducing the basic theory techniques and uses of drafting for industrial arts  
and vocational high school students      **Geometrical Drawing, Mechanical Drawing, Sketching, Practical Projection,  
Development of Surfaces** ,1920      **Engineering Mechanics Devoted to Mechanical Civil, Mining and Electrical  
Engineering** ,1884      Machinery and Production Engineering ,1921

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## **Table of Contents Mechanical Drawing Standards Surface Finish Symbols**

1. Understanding the eBook Mechanical Drawing Standards Surface Finish Symbols
  - The Rise of Digital Reading Mechanical Drawing Standards Surface Finish Symbols
  - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Drawing Standards Surface Finish Symbols
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mechanical Drawing Standards Surface Finish Symbols
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Drawing Standards Surface Finish Symbols
  - Personalized Recommendations
  - Mechanical Drawing Standards Surface Finish Symbols User Reviews and Ratings
  - Mechanical Drawing Standards Surface Finish Symbols and Bestseller Lists
5. Accessing Mechanical Drawing Standards Surface Finish Symbols Free and Paid eBooks
  - Mechanical Drawing Standards Surface Finish Symbols Public Domain eBooks
  - Mechanical Drawing Standards Surface Finish Symbols eBook Subscription Services
  - Mechanical Drawing Standards Surface Finish Symbols Budget-Friendly Options

6. Navigating Mechanical Drawing Standards Surface Finish Symbols eBook Formats
  - ePub, PDF, MOBI, and More
  - Mechanical Drawing Standards Surface Finish Symbols Compatibility with Devices
  - Mechanical Drawing Standards Surface Finish Symbols Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mechanical Drawing Standards Surface Finish Symbols
  - Highlighting and Note-Taking Mechanical Drawing Standards Surface Finish Symbols
  - Interactive Elements Mechanical Drawing Standards Surface Finish Symbols
8. Staying Engaged with Mechanical Drawing Standards Surface Finish Symbols
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mechanical Drawing Standards Surface Finish Symbols
9. Balancing eBooks and Physical Books Mechanical Drawing Standards Surface Finish Symbols
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mechanical Drawing Standards Surface Finish Symbols
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Mechanical Drawing Standards Surface Finish Symbols
  - Setting Reading Goals Mechanical Drawing Standards Surface Finish Symbols
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mechanical Drawing Standards Surface Finish Symbols
  - Fact-Checking eBook Content of Mechanical Drawing Standards Surface Finish Symbols
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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