

Design Guidelines For Cut Features

Distance Between Features

A minimum distance between features should be maintained to ensure the integrity of the cut. Following the guidelines below will ensure reliable results no matter the sheet cutting method.

MT = Material Thickness

- Minimum Hole to Edge Distance = 2X MT or 3 mm, whichever is smaller
- Minimum Hole to Hole Distance = 6X MT or 3 mm, whichever is smaller
- Minimum Relief Cuts = 0.25 mm or 1X MT, whichever is greater
- Minimum Corner Fillets = 0.5X MT or 3 mm, whichever is smaller
- Minimum Tab Thickness = 1.6 mm or 1X MT, whichever is greater
- Minimum Slot Thickness = 1 mm or 1X MT, whichever is greater

Minimum Detail Sizes

Before a feature is cut, the tool (e.g. laser beam, waterjet stream, etc.) must pierce through the material at the start point of the cut. Holes and other internal shapes should be sized appropriately to allow for this action.

A good rule of thumb is to design your details to be at least 50% of the material's thickness or larger. Also, remember to account for kerf width, as features that are designed below the kerf width will become blown out or lost.



- ✓ - Larger than 50% Material Thickness
- ✗ - Less than 50% Material Thickness



Design Guides For Sheet Metal Fabrication

ML Morrison



Design Guides For Sheet Metal Fabrication:

Sheet Metal Forming Processes and Die Design Vukota Boljanovic, 2004 This book is a complete modern guide to sheet metal forming processes and die design still the most commonly used methodology for the mass production manufacture of aircraft automobiles and complex high precision parts It illustrates several different approaches to this intricate field by taking the reader through the hows and whys of product analysis as well as the techniques for blanking punching bending deep drawing stretching material economy strip design movement of metal during stamping and tooling Technical Abstract Bulletin ,1982 *Fabrication* Peter Silver, William McLean, 2008-05-09 Packed with stunning images this is an indispensable visual guide illustrating and explaining current fabrication processes and material transformation Providing a documentary of an eclectic range of fabrication techniques this is the ideal reference for designers who wish to learn more about the materials and current technologies in material production available to them Featuring the work of 12 fabricators based in the UK the case studies displayed range from manufacture of complex wire rope the processes of metal spinning large scale composite casting to computer controlled sheet steel fabrication With a full knowledge of how the materials are transformed this book provides readers with a greater ability to employ material processes for their own designs and to better understand material fabrication This is a book that provides information on contemporary technology and design inspiration in abundance The Practical Steam Engineer's Guide in the Design Emory Edwards, 1883 *American Society of Heating and Ventilating Engineers Guide* ,1923 **American Society of Heating and Ventilating Engineers Guide** American Society of Heating and Air-Conditioning Engineers, 1923 **Regional Industrial Buying Guide** ,1996 **Heating, Ventilating, Air Conditioning Guide** ,1922 **The Architect's Guide to Computer-aided Design** Mark Lauden Crosley, 1988 The 2004 Guide to the Evaluation of Educational Experiences in the Armed Services American Council on Education, American Council on Education Staff, 2004 For more than a half century the Guide to the Evaluation of Education Experiences in the Armed Services has been the standard reference work for recognizing learning acquired in military life Since 1942 ACE and has worked cooperatively with the US Department of Defense the Armed Services and the US Coast Guard in helping hundreds of thousands of individuals earn academic credit for learning achieved while serving their country *Rich's High-tech Business Guide to Silicon Valley and Northern California* ,2003 **Inventor's Manual, how to Work a Patent to Make it Pay** George Milton Hopkins, 1924 **Elgen Manufacturing Corporation V. Ventfabrics, Inc** ,1962 Machine Design; a Manual of Practical Instruction in the Art of Creating Machinery for Specific Purposes American School (Lansing, Ill.), 1907 *Thomas Regional Industrial Buying Guide* ,2002 *Practical Sheet Metal Work and Demonstrated Patterns* John Henry Teschmacher, 2023-07-18 This comprehensive guide to sheet metal work is an essential resource for anyone working in that field It covers all aspects of sheet metal fabrication including bending cutting joining and finishing The book also includes more than 200 detailed patterns and templates that readers can use to create

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