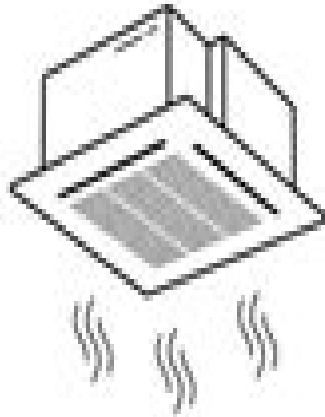


# FAMILY 101

## BUILDING MEP FAMILIES



A MASTERCLASS  
**IN REVIT**

PROJECT BASED  
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# Revit Mep Families Guide

**Don Bokmiller, Simon  
Whitbread, Plamen Hristov**



## Revit Mep Families Guide:

**The How to Guide to Building Autodesk® Revit® Families Volume I 2023** Michael Lindsay, 2023-01-23 Autodesk  
Revit software is specifically built for Building Information Modeling BIM empowering design and construction professionals to bring ideas from concept to construction with a coordinated and consistent model based approach Autodesk Revit is a single application that includes features for architectural design MEP and structural engineering and construction This GUIDE is intended for the BEGINNING and INTERMEDIATE REVIT users This GUIDE can be used as a REFERENCE for the more ADVANCE REVIT user Within this GUIDE SESSIONS 1 3 and 6 guides the user on how to build a SIMPLE to INTERMEDIATE REVIT Family SESSIONS 4 5 8 10 and 11 are optional SESSIONS that the user can learn to implement to enhance the dynamics of a REVIT Family SESSIONS 7 and 9 are practice SESSIONS where the user learns how to implement a CHECK LIST STEPS and other SESSIONS to build a REVIT Family SESSIONS 12 13 are SESSIONS that are normally implemented after SESSIONS 1 3 and 6 are implemented The author recommends that the user should use this GUIDE along with a current version of REVIT beginning with a 2014 Version to receive the full effect of the GUIDE     Mastering Autodesk Revit MEP 2012 Don Bokmiller, Simon Whitbread, Joel Londenber, 2011-08-08 The best tutorial and reference to provide extensive coverage of Revit MEP This perfectly paced Autodesk Official Training Guide covers all the core concepts and functionality of Revit MEP Autodesk s hot mechanical engineering and plumbing software Hands on real world tutorials reinforce the detailed discussions on a variety of Revit MEP topics including interface project setup and templates worksharing as well as such mechanical concerns as building loads and ductwork such electrical concerns as lighting and communications outlets and such plumbing concerns as fixtures and water systems Serves as the only hands on reference and tutorial to cover Autodesk Revit MEP in exhaustive detail Explores the interface and walks you through creating and using project templates Devotes extensive coverage to each aspect of Revit MEP mechanical electrical and plumbing Includes chapters on solid modeling creating symbols using parameters creating equipment and more Shares tips tricks and real world exercises that only professionals who use the software every day can provide To strengthen the learning experience readers can download before and after tutorial files from the supporting web site so they can jump into any tutorial and immediately compare their work to that of the professionals     *Mastering Autodesk Revit MEP 2014* Don Bokmiller, Simon Whitbread, Plamen Hristov, 2013-05-30 The ultimate reference and tutorial to harness the power of Revit MEP This Autodesk Official Press book will help you develop your expertise with Revit MEP s core concepts and functionality Based on the authors years of real world experience this comprehensive reference and tutorial has been updated to cover all of the new features of Revit MEP and includes best practices techniques tips tricks and real world exercises to help you hone your skills Shows how to use the interface effectively explains how to create and use project templates and details ways you can improve efficiency with worksharing and collaboration Addresses generating schedules that show quantities materials design

dependencies and more Looks at creating logical air water and fire protection systems evaluating building loads and placing air and water distribution equipment Covers lighting power receptacles and equipment communication outlets and systems and circuiting and panels Zeroes in on creating water systems plumbing fixtures and their connectors water piping and more Featuring real world scenarios and hands on tutorials this Autodesk Official Press book features downloadable before and after tutorial files so that you can compare your finished work to that of the professionals It s the perfect resource for becoming a Revit MEP expert     **Mastering Autodesk Revit MEP 2013** Don Bokmiller,Plamen Hristov,Simon

Whitbread,2012-08-03 An outstanding tutorial and reference for Autodesk Revit MEP This Autodesk Official Training Guide is the detailed reference and tutorial you need to master the powerful Autodesk Revit MEP 2013 building information modeling software The expert authors combine their considerable mechanical electrical and plumbing experience to help you quickly learn the interface and tools get hands on practice with real world projects and tutorials and master expert techniques and tricks that only pros who use the software on a daily basis know Explains how to integrate Revit MEP 2013 into workflows worksharing and schedules Covers using Revit MEP for mechanical design including HVAC load analysis and designing ductwork and piping Covers using Revit MEP for electrical design including lighting power communications and circuits Covers using Revit MEP for plumbing design including water systems fixtures sanitary piping and fire protection Shows how to prepare models for analysis and import export gbxml green building xml files Addresses managing content from symbols and annotations to creating devices adding details and producing sheets Mastering Autodesk Revit MEP 2013 is the complete guide to this popular software with a companion website that provides before and after tutorial files so you can compare your work to that of professionals     Mastering Autodesk Revit MEP 2015 Don Bokmiller,Simon Whitbread,Daniel

Morrison,2014-05-30 The definitive guide to Autodesk Revit MEP The expert author team for this Autodesk Official Press book has employed their years of experience to develop this exhaustive reference and tutorial which is perfectly paced to cover all the core concepts and functionality of Revit MEP including Navigating the interface Project setup and templates Worksharing Mechanical concerns such as building loads and ductwork Electrical concerns such as lighting and communications outlets Plumbing concerns such as fixtures and water systems This revision covers all of Revit MEP s new features and includes more advanced electrical and plumbing information In addition the book features real world sidebars and hands on tutorials that reinforce the detailed discussions along with downloadable before and after tutorial files to help you complete the hands on projects This Autodesk Official Press book is the perfect resource for becoming a Revit MEP expert     *Mastering Autodesk® Revit® MEP 2011* Don Bokmiller,2010-10-01 Master all the core concepts and functionality of Revit MEP Revit MEP has finally come into its own and this perfectly paced reference covers all the core concepts and functionality of this fast growing mechanical electrical and plumbing software The authors collate all their years of experience to develop this exhaustive tutorial that shows you how to design using a versatile model You ll discover tips tricks

and real world exercises that only authors who use the software daily in a professional environment can know and explain  
Explores the basics of the interface how to create and use project templates how to generate schedules that show quantities materials design dependencies and more Examines the mechanical side of Revit MEP including chapters on creating logical air water and fire protection systems and evaluating building loads Delves into how to best generate and model content including solid modeling creating symbols using parameters creating equipment and more Featuring real world sidebars hands on tutorials and a supporting Web site this reference allows you to jump into any tutorial and compare your finished work to the pros

*BIM Handbook* Rafael Sacks, Charles Eastman, Ghang Lee, Paul Teicholz, 2018-07-03 Discover BIM A better way to build better buildings Building Information Modeling BIM offers a novel approach to design construction and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format BIM is beginning to change the way buildings look the way they function and the ways in which they are designed and built The BIM Handbook Third Edition provides an in depth understanding of BIM technologies the business and organizational issues associated with its implementation and the profound advantages that effective use of BIM can provide to all members of a project team Updates to this edition include Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working national and major construction clients BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling the BIM Handbook Third Edition guides readers to successful implementations helping them to avoid needless frustration and costs and take full advantage of this paradigm shifting approach to construct better buildings that consume fewer materials and require less time labor and capital resources

*Mastering Autodesk Revit MEP 2016* Simon Whitbread, 2015-09-01 Get up and running on Autodesk Revit MEP 2016 with this detailed hands on guide Mastering Autodesk Revit MEP 2016 provides perfectly paced coverage of all core concepts and functionality with tips tricks and hands on exercises that help you optimize productivity With a focus on real world uses and workflows this detailed reference explains Revit MEP tools and functionality in the context of professional design and provides the practical insight that can only come from years of experience Coverage includes project setup work sharing building loads ductwork electrical and plumbing and much more with clear explanation every step of the way The companion website features downloadable tutorials that reinforce the material presented allowing you to jump in at any point and compare your work to the pros This is your guide to master the capabilities of this essential productivity enhancing tool Generate schedules that show quantities materials design dependencies and more Evaluate building loads and design logical air water and fire protection systems Create comprehensive electrical and plumbing plans tailored to the project Model your design with custom parameters

symbols fixtures devices and more If you re ready to get on board this emerging design collaboration and documentation paradigm Mastering Autodesk Revit MEP 2016 is the one stop resource you need      **Essentials of Revit Families 2012** Ken Jolly,2011-06-21 This book is specialized to provide you with essential knowledge easily accessed that you need to quickly begin making Revit Families This will assist both the beginner and intermediate Revit user in creating your unique custom Families      **Introducing Autodesk Revit Architecture 2012** Patrick Davis,2011-07-05 A fast focused introduction to Revit functions tools and concepts As the leading Building Information Modeling software package Revit is praised for its ease of use power and sophistication Authored by a high profile team of Revit professionals this reference and tutorial quickly has readers building skills to an intermediate level by exploring Revit tools and tasks putting parametric modeling to use detailing the basics of views and constraints and working with detailing massing rendering interior design and more Based on real world workflows and projects this book shows you readers how to model document present and share designs using Revit just the way the pros do Discussions and workflows are reinforced with tutorials drawn from the authors extensive experience and a beautiful 16 page color insert focuses on real world Revit projects Helps novice to intermediate level users learn Revit and its functions tools and concepts easily and efficiently Contains straightforward explanations real world examples beautiful illustrations and practical tutorials that focus intently on accomplishing vital Revit tasks Features in depth discussions reinforced by comprehensive step by step exercises that show you how to model document present and share your designs Includes a beautiful 16 page color insert with inspirational and instructional images drawn from the authors professional experience This book is the perfect resource for readers of all skill levels who want to quickly accomplish crucial Revit tasks      **BIM Handbook** Charles M. Eastman,2011-04-19 The BIM Handbook presents the technology and processes behind BIM and how architects engineers contractors and sub contractors construction and facility owners AECO can take advantage of the new technology and work process Unlike CAD BIM is a major paradigm shift in the documentation work processes and exchange of project information It facilitates collaboration and further automation in both design and construction AEC professionals need a handbook to guide them through the various BIM technologies and related processes The collaborative nature of BIM requires professionals to view BIM from various industry perspectives and understand how BIM supports multiple project participants The BIM Handbook reviews BIM processes and tools from multiple perspectives the owner architects and engineers contractors subcontractors and fabricators      **Introducing Autodesk Revit Architecture 2011** Patrick Davis,Charlie Busa,Beau Turner,Stephen Stafford,2010-09-16 Revit all stars present a fast focused introduction to Revit functions tools and concepts Hailed for its ease of use power and sophistication Revit is the industry leading Building Information Modeling BIM software package Introducing Revit Architecture provides a thorough overview of Revit s concepts interface conventions tools and tasks In depth discussions reinforced by comprehensive step by step exercises detail how to model document present and share designs Written by expert authors all

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Revit Architecture 2023 for Electrical Workers Elise Moss,2022-06 Finally The book electrical workers have been waiting for an introduction to Autodesk Revit written just for you Featuring exercises based on real work situations Revit Architecture 2023 for Electrical Workers will help get you up to speed quickly on developing your own construction documents The author developed and coordinated this book with a local chapter of electrical workers to ensure it would meet the needs of electrical journeymen This textbook shows you how to work with Revit documents provided by outside contractors and architects Using this textbook you will be able to learn enough skills in Revit to be fully functional in less than a week The textbook can be used in a training class or by someone teaching themselves in their own home or office If you can open a file and use a mouse you can learn Revit You don t need a college degree to use Revit software There is no other Revit book out there that covers so much material specifically for electricians and electrical engineers Knowing Autodesk Revit software is a valuable skill that will help you earn more money increase your value as an employee and collaborate better with other team members This textbook was written by Elise Moss an Autodesk Certified Instructor Elise has experience training machinists electricians and equipment installers She knows how to break down software content to make it easy to understand and learn quickly

The Aubin Academy: Revit MEP 2014 Paul F. Aubin,Darryl McCelland,Martin Schmid,Gregg Stanley,2013-05-30 The Aubin Academy Master Series Revit r MEP is the ideal book to help readers successfully use Revit MEP It is a concise manual focused squarely on the rationale and practicality of the Revit MEP Building Information Model BIM process The book emphasizes the process of creating projects in MEP rather than a series of independent commands and tools The goal of each lesson is to help the reader complete their projects successfully Tools are introduced together in a focused process with a strong emphasis on why as well as how The text and exercises seek to give the reader a clear sense of the value of the tools and a clear indication of each tool s potential The Aubin Academy Master Series Revit MEP is a resource designed to shorten your learning curve raise your comfort level and most importantly give you real life tested practical advice on the usage of the software to create mechanical electrical and plumbing designs and calculations Empowered with the information within this book you will have insight into how to use Revit MEP to create coordinated BIM project models and documentation Revised and updated to the latest release of the software Includes practical project focused how to exercises where readers learn by doing Focused on MEP Production so readers can learn to create a coordinated BIM model and documentation set Written by authors with over 75 years of combined real World

architectural and MEP industry experience Provides Power User BIM Manager tips throughout Includes free online download of complete dataset of project files to follow along in the exercises

*Design Integration Using Autodesk Revit 2010* Daniel John Stine, 2010-03-31 *Design Integration Using Autodesk Revit 2010* is designed to provide the reader with a well rounded knowledge of Autodesk Revit tools and techniques All three components of the Revit platform are introduced in this textbook This approach gives the reader a broad overview of the Building Information Modeling BIM process The topics cover the design integration of most of the building disciplines Architectural Interior Design Structural Mechanical Plumbing and Electrical Civil is not covered but adding topography to your model is Throughout the book the student develops a two story law office The drawings start with the floor plans and develop all the way to photo realistic renderings similar to the one on the cover of this book Along the way the building s structure ductwork plumbing and electrical power and lighting are modeled By the end the reader will have thorough knowledge of many of the Revit basics needed to be productive in a classroom or office environment Even if you will only be working with one component of Revit in your chosen profession this book will give you important knowledge on how the other disciplines will be doing their work and valuable insight into the overall process As an instructor the author understands that many students in a classroom setting have varying degrees of computer experience To help level the playing field the first chapter is devoted to an introduction to computers Much of the basics are covered from computer hardware and software to file management procedures including step by step instructions on using a flash drive Chapters 2 through 5 cover many of the Revit basics needed to successfully and efficiently work in the software Once the fundamentals are covered the remaining chapters walk the reader through a building project which is started from scratch so nothing is taken for granted by the reader or the author

*Design Integration Using Autodesk Revit 2011 (Architecture, Structure and MEP)* Daniel John Stine, 2010-07-02 *Design Integration Using Autodesk Revit 2011* is designed to provide the reader with a well rounded knowledge of Autodesk Revit tools and techniques All three components of the Revit platform are introduced in this textbook This approach gives the reader a broad overview of the Building Information Modeling BIM process The topics cover the design integration of most of the building disciplines Architectural Interior Design Structural Mechanical Plumbing and Electrical Civil is not covered but adding topography to your model is Each book comes with a DVD containing numerous video presentations of the written material Throughout the book the student develops a two story law office The drawings start with the floor plans and develop all the way to photo realistic renderings similar to the one on the cover of this book Along the way the building s structure ductwork plumbing and electrical power and lighting are modeled By the end the reader will have thorough knowledge of many of the Revit basics needed to be productive in a classroom or office environment Even if you will only be working with one component of Revit in your chosen profession this book will give you important knowledge on how the other disciplines will be doing their work and valuable insight into the overall process As an instructor the author understands that many students in a classroom setting



have varying degrees of computer experience To help level the playing field the first chapter is devoted to an introduction to computers Much of the basics are covered from computer hardware and software to file management procedures including step by step instructions on using a flash drive Chapters 2 through 5 cover many of the Revit basics needed to successfully and efficiently work in the software Once the fundamentals are covered the remaining chapters walk the reader through a building project which is started from scratch so nothing is taken for granted by the reader or the author

**Exploring Autodesk Revit 2021 for MEP, 7th Edition** Prof. Sham Tickoo, 2020-12-06 Exploring Autodesk Revit 2021 for MEP book covers the detailed description of all basic and advanced workflows and tools to accomplish an MEPF Mechanical Electrical Plumbing and Fire Fighting project in a BIM environment It explores the processes involved in Building Information Modeling The topics covered in this book range from creating building components HVAC system electrical system plumbing system and Fire protection system to designing conceptual massing performing HVAC heating and loading analysis and creating rich construction documentation In Revit MEP 2021 book special emphasis has been laid on the concepts of space modeling and tools to create systems for all disciplines MEP Each concept in this book is explained using the detailed description and relevant graphical examples and illustrations The accompanying tutorials and exercises which relate to the real world projects help you understand the usage and abilities of the tools available in Autodesk Revit 2021 In addition the chapters in this book are punctuated with tips and notes to make the concepts clear thereby enabling the readers to create their own innovative projects

**Salient Features** Comprehensive book that covers all major Revit MEP tools and concepts Coverage of advanced concepts such as worksharing families and system creation Detailed description on building envelope spaces and zones HVAC system electrical system fire fighting system and plumbing system Step by step explanation that guides the users through the learning process Effectively communicates the utility of Revit 2021 for MEP Self Evaluation Test and Review Questions at the end of chapters for self assessment Table of Contents Chapter 1 Introduction to Autodesk Revit 2021 for MEP Chapter 2 Getting Started with an MEP Project Chapter 3 Creating Building Envelopes Chapter 4 Creating Spaces and Zones and Performing Load Analysis Chapter 5 Creating an HVAC System Chapter 6 Creating an Electrical System Chapter 7 Creating Plumbing Systems Chapter 8 Creating Fire Protection System Chapter 9 Creating Construction Documents Chapter 10 Creating Families and Worksharing Index

[The How to Guide to Building Autodesk® Revit® Families - Volume II](#) Michael J. Lindsay, 2020-03-13 Autodesk Revit software is specifically built for Building Information Modeling BIM empowering design and construction professionals to bring ideas from concept to construction with a coordinated and consistent model based approach Autodesk Revit is a single application that includes features for architectural design MEP and structural engineering and construction This GUIDE is intended for the BEGINNING and INTERMEDIATE REVIT users This GUIDE is comprised of 9 SESSIONS Within this GUIDE SESSION 1 guides the user on how to apply three additional extrusions such as REVOLVE BLEND and SWEEP SESSION 2 guides the user on how to create

and apply a LABEL and TEXT REVIT Family SESSION 3 guides the user on how to apply MODEL TEXT and MODEL LINES in or as a REVIT Family SESSION 4 guides the user on how to create and apply SHARED PROJECT and GLOBAL Parameters SESSION 5 guides the user on how to create and apply MODEL and ANNOTATION TAGS and LEADERS SESSION 6 guides the user on how to create FAMILY TYPES SESSION 7 guides the user on how to create and apply a VIEW TITLE a SECTION the NORTH ARROW and the SEAL REVIT Families SESSION 8 guides the user on how to create a TITLEBLOCK REVIT Family SESSION 9 guides the user on to create different types of LOOKUPTABLES SESSION 10 guides the user on how to form an ARRAY using NON PERMANENT VOIDS      *Autodesk Revit 2018 MEP Mechanical: Review for Professional Certification* ASCENT - Center for Technical Knowledge, Autodesk Revit 2018 MEP Mechanical Review for Professional Certification is a comprehensive review guide to assist in preparing for the Autodesk Revit MEP Mechanical Certified Professional exam It enables experienced users to review learning content from ASCENT that is related to the exam objectives The content and exercises have been added to this training guide in the same order that the objectives are listed for the Autodesk Revit MEP Mechanical Certificated Professional exam This order does not necessarily match the workflow that should be used in the Autodesk Revit 2018 MEP software New users of Autodesk Revit MEP 2018 software should refer to the following ASCENT learning guides Autodesk Revit 2018 MEP Fundamentals Autodesk Revit 2018 BIM Management Template and Family Creation Autodesk Revit 2018 Collaboration Tools Prerequisites Autodesk Revit 2018 MEP Mechanical Review for Professional Certification is intended for experienced users of the Autodesk Revit software Autodesk recommends 400 hours of hands on software experience prior to taking the Autodesk Revit MEP Mechanical Certified Professional exam

**Exploring Autodesk Revit 2025 for MEP, 11th Edition** Prof. Sham Tickoo, 2025-06-06 Exploring Autodesk Revit 2025 for MEP book covers the detailed description of all basic and advanced workflows and tools to accomplish an MEPF Mechanical Electrical Plumbing and Fire Fighting project in a BIM environment It explores the processes involved in Building Information Modeling The topics covered in Revit MEP book range from creating building components HVAC system electrical system plumbing system and Fire protection system to designing conceptual massing performing HVAC heating and loading analysis and creating rich construction documentation In this book special emphasis has been laid on the concepts of space modeling and tools to create systems for all disciplines MEP Each concept in this book is explained using the detailed description and relevant graphical examples and illustrations The accompanying tutorials and exercises which relate to the real world projects help you understand the usage and abilities of the tools available in Autodesk Revit 2025 In addition the chapters in this book are punctuated with tips and notes to make the concepts clear thereby enabling the readers to create their own innovative projects Salient Features Comprehensive book that covers all major Revit MEP tools and concepts Coverage of advanced concepts such as worksharing families and system creation Detailed description on building envelope spaces and zones HVAC system electrical system fire fighting system and plumbing system Step by step

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