

# Ecet Mechanical Branch Material Ebook

## ECET Mechanical Branch Material: Your Comprehensive Guide to Excelling in the ECET Mechanical Branch

When preparing for the Engineering Common Entrance Test (ECET), students often seek focused and reliable study material tailored specifically for the mechanical branch. The ECET mechanical branch material is essential for understanding core concepts, practicing problems, and ultimately achieving success in the exam. This article provides an in-depth overview of the vital topics, preparation strategies, and recommended resources to help aspiring mechanical engineers excel in ECET.

## Understanding the Importance of ECET Mechanical Branch Material

The ECET (Engineering Common Entrance Test) is a gateway for diploma holders to enter into undergraduate engineering programs, including mechanical engineering. The mechanical branch material serves as the foundation for mastering the exam's syllabus, which typically includes subjects like Mathematics, Physics, Chemistry, and core Mechanical Engineering topics.

Having comprehensive, well-structured ECET mechanical branch material enables students to focus their studies effectively, identify key concepts, and practice relevant questions. It acts as a roadmap guiding aspirants through complex topics and helps build confidence for the exam.

## Core Subjects and Topics in ECET Mechanical Branch Material

The mechanical branch material encompasses a broad range of subjects. Here are the main topics students should focus on:

### 1. Mathematics

Mathematics forms the backbone of technical exams like ECET. Essential topics include:

- Algebra
- Trigonometry
- Calculus (Differentiation & Integration)
- Analytical Geometry
- Statistics and Probability
- Matrices and Determinants

## 2. Physics

Physics topics that are crucial include:

- Mechanics (Laws of Motion, Work, Power & Energy)
- Properties of Matter
- Thermodynamics
- Sound & Waves
- Optics
- Electricity and Magnetism

## 3. Chemistry

Chemistry in ECET covers:

- Physical Chemistry (States of Matter, Thermodynamics)
- Inorganic Chemistry (Periodic Table, Chemical Bonding)
- Organic Chemistry (Hydrocarbons, Functional Groups)
- Environmental Chemistry

## 4. Mechanical Engineering Core Topics

These are the specialized areas within the mechanical branch material:

- Strength of Materials
- Thermodynamics and Heat Engines
- Fluid Mechanics and Machinery
- Manufacturing Processes
- Machine Design
- Industrial Engineering
- Metallurgy and Materials Science

## Effective Strategies to Use ECET Mechanical Branch Material

Simply collecting the material isn't enough. To maximize your preparation, follow these strategies:

### 1. Focus on NCERT and Standard Textbooks

Most ECET questions are based on concepts from NCERT textbooks for Physics and Chemistry, along with standard engineering books for Mechanical topics. Ensure you understand fundamental concepts thoroughly.

## 2. Create a Study Plan

Divide your syllabus into manageable sections, allocating specific days for each subject. Consistency is key; dedicate focused hours daily to cover all topics.

## 3. Use Previous Years? Question Papers

Practice with past ECET question papers to familiarize yourself with exam patterns and frequently asked questions. This also helps in time management.

## 4. Refer to Standard Reference Books

Apart from your main textbooks, consider books like:

- ?Strength of Materials? by R.K. Bansal
- ?Thermodynamics? by P.K. Nag
- ?Fluid Mechanics? by R. K. Bansal
- ?Manufacturing Processes? by R. K. Jain

## 5. Practice Numerical Problems

Mechanical engineering heavily relies on problem-solving. Regularly practice numerical questions to improve accuracy and speed.

## Recommended ECET Mechanical Branch Material Resources

Access to quality study materials can significantly enhance your preparation. Here are some top resources:

### 1. Books and Textbooks

- Mathematics: ?Mathematics for Engineering? by K. Gupta
- Physics: ?Concepts of Physics? by H.C. Verma
- Chemistry: ?Physical Chemistry? by O.P. Tandon
- Mechanical Engineering: As mentioned above, standard textbooks for core topics

## 2. Online Courses and Video Lectures

Platforms like YouTube, NPTEL, and Unacademy offer free and paid courses specifically tailored for ECET aspirants in mechanical topics.

## 3. Previous Year Question Papers and Sample Tests

Many coaching centers and online portals provide collections of previous ECET papers, which are invaluable for practice.

## 4. Mobile Apps and Study Guides

Numerous apps offer practice tests, flashcards, and quick revision notes on mechanical topics.

## Preparation Tips for Mechanical Branch Students Appearing for ECET

To leverage the ECET mechanical branch material effectively, consider these tips:

- **Prioritize high-weightage topics:** Focus more on topics frequently asked in the exam.
- **Revise regularly:** Use your material for weekly revisions to reinforce concepts.
- **Clear fundamentals:** Avoid rote learning; aim for conceptual clarity.
- **Time management:** Practice solving questions within stipulated time limits.
- **Join coaching or study groups:** Collaborative learning can help clarify doubts quickly.

## Conclusion: Mastering the ECET Mechanical Branch Material

Success in ECET's mechanical branch requires diligent study, strategic preparation, and access to quality materials. The ECET mechanical branch material serves as your comprehensive resource covering theoretical concepts, practical problems, and exam patterns. By focusing on core topics, practicing regularly, and utilizing the right resources, aspirants can confidently aim for top scores and secure admission into premier engineering colleges.

Remember, consistency and perseverance are key. Equip yourself with the best study material, follow a disciplined study plan, and stay motivated throughout your preparation journey. With the right approach and resources, excellence in ECET mechanical branch is well within your reach.

ECET Mechanical Branch Material: Essential Resources for Success

Introduction

*ECET mechanical branch material* serves as the backbone for aspiring engineering students aiming to excel in their coursework, project work, and competitive exams. As one of the core branches in the Diploma in Engineering and Technology, Mechanical Engineering offers a blend of theoretical principles and practical applications, making a comprehensive and well-structured resource essential. This article aims to provide a detailed overview of the key materials, textbooks, reference guides, and study strategies that students pursuing mechanical engineering at the ECET level should focus on. Whether you are preparing for exams, projects, or extracurricular competitions, understanding the right materials and how to utilize them effectively can significantly impact your academic journey.

## The Importance of Quality Study Materials in Mechanical Engineering

Before diving into specific resources, it's crucial to understand why high-quality study materials are vital for success. Mechanical engineering is a broad field encompassing thermodynamics, mechanics, manufacturing, robotics, and more. Each domain demands a solid grasp of fundamental concepts and the ability to apply them practically.

Why proper materials matter:

- Foundation Building: Clear explanations of fundamental concepts lay the groundwork for advanced topics.
- Exam Preparation: Well-structured notes and solved problems facilitate efficient revision.
- Project Development: Practical guides and references provide insights necessary for designing and implementing mechanical systems.
- Competitive Edge: Additional reference books and practice problems improve problem-solving skills, critical for exams like State-level technical competitions.

## Core Textbooks and Reference Materials

### Standard Textbooks for Mechanical Branch

A well-curated selection of textbooks serves as the primary resource for learning. Here are some of the most recommended titles:

- Engineering Mechanics by R.S. Khurmi & J.K. Gupta
- Covers fundamental principles of statics and dynamics.
- Features numerous solved examples and practice questions.

- Thermodynamics: An Engineering Approach by Yunus Çengel & Michael Boles
- Simplifies complex thermodynamic concepts with practical applications.
- Essential for understanding energy systems.
- Manufacturing Processes by R.K. Jain
- Focuses on various manufacturing techniques including casting, welding, and machining.
- Fluid Mechanics and Machinery by R.K. Bansal
- Explains the behavior of fluids and their applications in turbines, pumps, etc.
- Material Science and Metallurgy by R. K. Rajput
- Provides insights into material properties, testing, and selection criteria.

#### Reference Guides and Handbooks

- Mechanical Engineering Reference Manual by Michael R. Lindeburg
- Offers quick access to formulas, key concepts, and practice questions.
- Design Data Handbooks
- Contains standard data, material properties, and design tables essential for project work.
- NCERT Textbooks (if applicable)
- For foundational understanding, especially if preparing for competitive exams.

#### Supplementary Resources for Practical Knowledge

#### Industry Standards and Codes

Understanding real-world standards is critical for practical applications:

- ASME Codes
- ISO Standards
- IS Codes (Indian Standards)

Studying these ensures compliance and safety in design and manufacturing processes.

### Software Tools and Simulations

Modern mechanical engineering increasingly relies on software:

- AutoCAD & SolidWorks: For drafting and 3D modeling.
- ANSYS & MATLAB: For simulations, analysis, and design optimization.
- SPICE & LabVIEW: For control systems and electronics integration.

Familiarity with these tools complements theoretical learning and enhances employability.

### Special Topics and Advanced Materials

#### Thermodynamics and Heat Engines

- Focus on cycles (Otto, Diesel, Rankine).
- Understand the working principles of engines and turbines.
- Study energy conservation, efficiency, and entropy concepts.

#### Manufacturing and Materials

- Explore latest manufacturing techniques like CNC machining, additive manufacturing.
- Understand material selection based on properties, cost, and application.

#### Mechanical Design and CAD

- Study design principles, stress analysis, and material strength.
- Practice designing components using CAD software, which is a vital skill.

### Study Strategies for ECET Mechanical Branch Students

Achieving mastery in mechanical engineering requires strategic planning:

- Consistent Revision: Regularly revisit core concepts to reinforce understanding.
- Solve Previous Years' Papers: Familiarize yourself with exam patterns and frequently asked questions.
- Join Study Groups: Collaborative learning often clarifies doubts and introduces new perspectives.
- Practice Numerical Problems: Mechanical engineering involves significant problem-solving; practice is key.
- Use Multimedia Resources: Videos, tutorials, and online courses can simplify complex topics.

#### Additional Tips:

- Maintain a comprehensive notebook for formulas, shortcuts, and important concepts.
- Attend workshops, seminars, and industrial visits to connect theory with practice.
- Stay updated with recent technological advancements in mechanical engineering.

#### Resources for Practical and Project Work

Practical skills are as important as theoretical knowledge. For project work and internships:

- Laboratory Manuals: Follow college-provided manuals for experiments like calorimetry, material testing, and fluid mechanics.
- Project Reports: Refer to previous successful projects for ideas and methodologies.
- Online Community Forums: Platforms like ResearchGate, Engineering.com, and Stack Exchange facilitate problem-solving and idea exchange.

#### Conclusion

*ECET mechanical branch material* encompasses a wide spectrum of books, guides, standards, software tools, and practical resources. Success in mechanical engineering at the diploma level hinges on a balanced approach: grounding in fundamental theory, hands-on practical skills, and awareness of industry standards. Leveraging the right materials, practicing consistently, and staying curious about innovations can open pathways to academic excellence and future career opportunities. Remember, the journey involves continuous learning, and the right resources are your trusted companions along the way.

Stay focused, stay motivated, and make the most of the abundant resources available to you. Your mechanical engineering future begins today!

QuestionAnswer What are the best study materials for ECET Mechanical branch preparation?

The best study materials include standard textbooks on Mechanical Engineering concepts, previous years' question papers, NCERT reference books, and online resources like video lectures and practice tests tailored for ECET Mechanical branch aspirants. Where can I find previous year question papers for ECET Mechanical branch? Previous year question papers for ECET Mechanical branch are available on official exam websites, educational portals like IndiaBIX, and coaching institute platforms that provide PDFs and solutions for practice. Which reference books are recommended for Mechanical branch ECET students? Recommended reference books include 'Mechanical Engineering' by R. K. Jain, 'Strength of Materials' by R. K. Bansal, and 'Thermodynamics' by P. K. Nag, along with ECET-specific guides that align with the exam syllabus. Are online mock tests useful for ECET Mechanical branch exam preparation? Yes, online mock tests help students assess their preparation, improve time management, and familiarize themselves with the exam pattern, thereby increasing their chances of scoring well in the ECET Mechanical branch exam. What are the key topics to focus on for ECET Mechanical branch material? Key topics include Thermodynamics, Strength of Materials, Fluid Mechanics, Manufacturing Processes, Machine Design, and Theory of Machines, as these are frequently covered in the exam syllabus. How can I get updated material for the latest ECET Mechanical branch syllabus? Stay updated by regularly visiting the official ECET exam website, joining online forums and coaching groups, and subscribing to educational channels that provide the latest syllabus, sample papers, and study guides. Are reference notes and quick revision guides helpful for ECET Mechanical preparation? Yes, reference notes and quick revision guides help in revising important concepts efficiently and are especially useful for last-minute preparation and maintaining clarity on key topics.

**Related keywords:** mechanical engineering materials, mechanical branch notes, mechanical engineering textbooks, mechanical properties of materials, mechanical engineering syllabus, mechanical material list, mechanical workshop materials, mechanical engineering labs, mechanical branch books, mechanical engineering courses

## AUTODESK REVIT 2014 MATERIAL LIBRARY METRIC

**autodesk revit 2014 material library metric** is an essential component for architects, engineers, and construction professionals who rely on Revit for Building Information Modeling (BIM). The material library in Revit 2014 provides a comprehensive set of predefined materials that facilitate realistic visualizations, accurate simulations, and efficient documentation workflows. Understanding how to effectively utilize and customize the material library is crucial for optimizing project outcomes, especially when working with metric units, which are standard in many countries around the world.

In this article, we will explore the details of the Autodesk Revit 2014 material library metric, including its structure, how to access and modify materials, best practices for managing materials, and tips for

leveraging the library to enhance your BIM projects.

## Understanding the Revit 2014 Material Library

### What is the Material Library?

The material library in Revit 2014 is a collection of predefined materials that can be applied to different elements within a project. These materials define the visual appearance, physical properties, and rendering characteristics of objects such as walls, floors, furniture, and structural components. The library helps streamline the modeling process by providing ready-to-use materials that can be customized further.

### Metric Units in the Material Library

Revit 2014's material library supports metric units, making it suitable for projects in regions where the metric system is standard. This includes measurements such as millimeters (mm), centimeters (cm), and meters (m). When working with metric units, it is essential to ensure that your project units are correctly set, and materials are configured to reflect real-world dimensions accurately.

## Accessing and Navigating the Material Library

### How to Access the Material Library

To access the material library in Revit 2014:

- Open your Revit project.
- Navigate to the **Manage** tab on the ribbon.
- Click on **Materials** in the Settings panel.
- The Materials dialog box will open, displaying the library's contents.

Within this dialog, you can browse existing materials, create new ones, or duplicate and modify existing ones.

### Structure of the Material Library

The material library in Revit 2014 is organized into categories such as:

- Wood
- Concrete

- Metal
- Glass
- Fabric
- Paint
- Plastics

Each category contains multiple predefined materials with specific visual and physical properties.

## Working with Materials in Revit 2014

### Applying Materials to Elements

Applying materials is straightforward:

- Select the element in the model.
- In the Properties palette, find the **Material** parameter.
- Click the drop-down menu and choose an existing material from the library.
- Alternatively, click **Manage Materials** to create or modify materials.

### Creating Custom Materials

To create a custom material tailored to your project needs:

- Open the Materials dialog box.
- Click **New** to create a new material.
- Name your material appropriately.
- Adjust the appearance settings, including color, texture, reflectivity, and transparency.
- Configure physical properties such as thermal conductivity and density, especially important for energy analysis.
- Save your custom material for reuse in your project.

### Modifying Existing Materials

Existing materials can be fine-tuned to match specific design requirements:

- Select the material from the library.
- Click **Edit** to open the Material Editor.
- Adjust the visual and physical parameters accordingly.

- Save changes to update all instances of that material in your project.

## Best Practices for Managing the Material Library

### Organizing Custom Materials

As your project progresses, you may accumulate numerous custom materials. To maintain organization:

- Create a dedicated category or subcategory for your custom materials.
- Name materials clearly to indicate their purpose or finish.
- Use consistent naming conventions to facilitate quick searching.

### Sharing Materials Across Projects

Revit allows you to export and import material libraries, enabling consistent material usage across multiple projects:

- Export your custom materials by saving the Material Library file (.adsk) from the Materials dialog.
- In a new project, import the library to access the same materials.

### Keeping the Library Up-to-Date

Regularly review and update your materials to reflect changes in product specifications or design preferences. This ensures visual consistency and accurate physical properties.

## Leveraging the Material Library for Better Visualizations and Analysis

### Realistic Renders

The material library's appearance settings can be fine-tuned to produce photorealistic renderings:

- Adjust reflectivity, glossiness, and transparency.
- Apply textures and bump maps for surface detail.
- Use the rendering settings in Revit or export to external rendering software for higher quality visuals.

## Energy and Structural Analysis

Physical properties assigned to materials influence energy modeling and structural performance:

- Define thermal conductivity, specific heat, and density for energy analysis.
- Ensure materials are accurately represented for structural simulations.

## Compliance and Documentation

Using standardized materials from the library helps in maintaining compliance with building codes and in preparing precise documentation for procurement and construction.

## Tips and Tricks for Using the Revit 2014 Material Library Metric

- **Use Templates:** Create project templates with predefined materials to streamline workflows.
- **Leverage Material Overrides:** For specific elements, override default materials without altering the library.
- **Utilize Material Libraries from Manufacturers:** Import manufacturer-specific materials for greater accuracy.
- **Regular Backups:** Save copies of your custom material libraries regularly to prevent data loss.
- **Documentation:** Keep documentation of material properties for future reference or project handovers.

## Conclusion

The Autodesk Revit 2014 material library metric is a powerful tool for creating visually appealing, physically accurate, and efficiently managed building models. Understanding how to access, customize, and organize materials ensures that your BIM projects are not only aesthetically compelling but also compliant and functional. By leveraging the full capabilities of the material library, professionals can significantly enhance their modeling workflows, produce high-quality visualizations, and perform precise analyses. Whether you're working on a small residential project or a large commercial development, mastering the Revit 2014 material library is an essential step toward achieving your design and documentation goals.

Autodesk Revit 2014 Material Library Metric: An In-Depth Exploration

Introduction

Autodesk Revit 2014 Material Library Metric stands as a cornerstone for architects, engineers, and

BIM professionals seeking to streamline their design processes and enhance their project realism. As a pivotal component within Revit's comprehensive Building Information Modeling (BIM) environment, the Material Library provides users with an extensive repository of predefined materials, enabling accurate visualization, analysis, and documentation of building components. In this article, we delve into the intricacies of the Revit 2014 Material Library in the metric system, exploring its features, practical applications, and how it empowers professionals to create more realistic and data-rich models.

## Understanding the Revit 2014 Material Library: An Overview

### What is the Material Library?

The Material Library in Autodesk Revit 2014 is a curated collection of materials that can be assigned to various elements within a building model. These materials define the appearance, physical properties, and behavior of surfaces and objects, such as walls, floors, roofing, and furnishings. They serve multiple purposes, including:

- Visualization: Providing realistic renderings and visual styles.
- Documentation: Supporting accurate schedules and specifications.
- Analysis: Enabling performance simulations like thermal or energy analysis.

### Metric System Integration

Revit 2014's Material Library is designed with a focus on the metric system, catering to projects in regions where metric units are standard. This integration simplifies the process of creating, editing, and applying materials with measurements in meters, centimeters, and millimeters, ensuring that the model's physical dimensions align precisely with real-world specifications.

### Features of Revit 2014 Material Library Metric

#### Extensive Material Database

The Material Library comes with a vast array of predefined materials covering common construction materials such as:

- Concrete
- Brick
- Wood
- Metal

- Glass
- Ceramics
- Plastics

Each material is detailed with properties that influence visual appearance and physical characteristics.

### Customization and Creation

Revit allows users to customize existing materials or create new ones from scratch. This flexibility is essential for:

- Modeling unique or proprietary materials.
- Adjusting visual attributes like color, texture, and reflectivity.
- Defining physical properties such as thermal conductivity or density.

### Material Types and Categories

Materials are organized into categories, making it easier to locate and assign appropriate textures. These categories include:

- Structural Materials
- Finish Materials
- System Materials
- Imported Materials

This organization streamlines the workflow, especially in large projects with diverse material requirements.

### Navigating the Material Editor: Practical Tips

#### Accessing the Material Browser

In Revit 2014, the Material Browser is the primary interface to explore and manage materials. To access it:

- Navigate to the Manage tab.
- Click on Materials in the Settings panel.

The browser displays a list of default and custom materials, along with their properties.

### Editing Material Properties

Within the Material Editor, users can modify:

- Graphics: Color, pattern, transparency, and surface patterns.
- Appearance: Render appearance settings, including reflectivity, glossiness, and bump maps.
- Physical: Thermal properties, density, and other physical parameters.

Adjustments here influence both visual realism and analytical accuracy.

### Applying Materials to Elements

Materials can be assigned directly to model elements via:

- The Properties palette.
- Material override options.
- Drag-and-drop in the visual model.

Proper assignment ensures consistency across documentation and visualization.

### Practical Applications in Metric Projects

#### Architectural Visualization

Using the metric material library allows architects to produce highly realistic renderings that accurately represent real-world materials. This includes:

- Precise color matching.
- Material textures scaled appropriately to dimensions.
- Realistic reflections and transparency settings.

#### Structural Analysis and Performance Simulation

For structural engineers, materials with defined physical properties enable simulations such as:

- Structural load calculations.
- Thermal performance analysis.
- Energy modeling.

Having materials in metric units ensures that calculations are based on real-world measurements.

### Construction Documentation and Specifications

Accurate material definitions assist in generating precise schedules and specifications, critical for procurement and construction management.

### Challenges and Best Practices

#### Ensuring Consistency Across Models

In projects with multiple team members or phases, maintaining uniform material definitions is crucial. Best practices include:

- Creating shared parameter files for materials.
- Documenting custom material properties.
- Regularly updating the Material Library.

#### Managing File Sizes and Performance

A comprehensive material library can increase project file size and impact performance. To optimize:

- Use linked or referenced material libraries when appropriate.
- Archive unused or outdated materials.
- Regularly audit materials for relevance and accuracy.

#### Compatibility and Version Control

While the discussion centers on Revit 2014, users should be aware of compatibility issues when upgrading or sharing files across different Revit versions. Maintaining a standardized material library mitigates discrepancies.

#### Enhancing the Material Library Experience

## Utilizing External Resources

Many professionals supplement Revit's default material library with:

- Custom textures and materials created in external software like Photoshop or Substance Designer.
- Imported materials from manufacturer catalogs.

These additions can increase realism and project specificity.

## Automating Material Assignments

Using Revit's tools and plugins to automate material assignments based on parameters or templates can improve efficiency, especially in large projects.

## Future Outlook and Evolving Features

Although Revit 2014 is now several versions old, its Material Library laid the foundation for continued enhancements in subsequent releases. Modern Revit versions offer:

- Improved rendering capabilities.
- More detailed physical property settings.
- Enhanced library management tools.

Understanding the 2014 material system provides valuable insights into the evolution of BIM workflows.

## Conclusion

The Autodesk Revit 2014 Material Library in metric units remains an essential tool for professionals aiming for precise, realistic, and data-rich building models. Its extensive database, customization options, and integration with Revit's powerful environment enable users to craft detailed visualizations, conduct meaningful analyses, and produce accurate documentation. By mastering the features and best practices associated with the material library, BIM practitioners can significantly elevate the quality and efficiency of their projects, ensuring that designs are not only visually compelling but also grounded in real-world physical properties. As BIM technology continues to evolve, a solid understanding of these foundational tools remains vital for adapting to future innovations in architectural and engineering workflows.

**Question** How do I access the Material Library in Autodesk Revit 2014 Metric version? In Revit 2014 Metric, you can access the Material Library by going to the Manage tab, clicking on 'Materials,' and then selecting 'Material Browser.' From there, you can browse and load materials from the library. Can I customize or add new materials to the Revit 2014 Metric Material Library? Yes, you can create custom materials or duplicate existing ones within Revit 2014. To add new materials, open the Material Browser, click 'Create New Material,' and define its properties. To include external library materials, import them via the Material Browser options. What are the differences between the Revit 2014 metric material library and the imperial version? The primary difference lies in the units and material standards. The metric library uses SI units and compatible material properties, while the imperial version uses imperial units. Material appearance and physical properties may also vary accordingly. How can I load additional material libraries into Revit 2014 Metric? You can load additional libraries by importing material files (.adsklib) into the Material Browser. Use the 'Manage Materials' option, then 'Import Material Library,' and select the desired library files to add them to your project. Are there any common issues with the Revit 2014 Material Library in metric projects? Common issues include missing materials after library import, mismatched units, or materials not displaying correctly. These can often be resolved by reloading libraries, checking unit settings, or updating graphics drivers. How can I ensure accurate material representation in Revit 2014 metric projects? Ensure that the materials are correctly assigned with proper physical and visual properties, and that the project units are set to metric. Preview materials in the Material Browser to confirm appearance and properties before applying them. Is it possible to export Revit 2014 metric materials for use in other software? Direct export of materials from Revit 2014 is limited, but you can export material appearance as images or use the material library files (.adsklib) to share materials with compatible software or Revit versions. For full material data, consider exporting the project or using IFC files.

**Related keywords:** Autodesk Revit 2014, material library, metric units, Revit materials, BIM materials, Revit families, Revit textures, Revit 2014 tutorials, material parameters, Revit material libraries

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