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Heyue SMD Aluminum Electrolytic Capacitors RVT/UT/VT

RVT/UT/VT Wide temperature Standard 宽温标准品

■ Features

105℃, 2000 hours assured.
Available for high density surface mounting.
High stability and reliability.

■ Specifications

Item	Condition		Specifications							
Category Temperature Range(℃)	—		-55℃ ~ +105℃							
Capacitance Tolerance (%)	120Hz, 20℃		±20%							
Rated Voltage (v)	—		6.3	10	16	25	35	50	63	100
Dissipation Factor (tanδ)	120Hz, 20℃ (Max.)	tanδ	0.30	0.24	0.20	0.18	0.16	0.14	0.14	0.14
		Notes	Exceeding 1,000uF, +0.02 every 1,000uF							
Leakage Current (LC)	After 2 minutes, 20℃ (uA, Max.)		0.01CV or 3uA, whichever is greater.							
Low Temperature Characteristics	Impedance Ratio (Max.)	$Z_{-25℃}/Z_{+20℃}$	5	4	3	2	2	2	2	2
		$Z_{-40℃}/Z_{+20℃}$	10	8	6	4	3	3	3	3
Endurance	105℃, Rated Voltage Applied (With the rated ripple current)	Hours	2,000							
		ΔC/C	Within ±30% of initial value							
		tanδ	300% or less of the initial specified value							
		LC	The initial specified value or less							
Shelf life	105℃	Hours	1,000							
		Other Items	same as those for the endurance.							

■ Dimensions

Φ	L	A	B	C	P	α	W
4	5.7	4.3	4.3	5.0	1.0	±0.3	0.5-0.8
5	5.7	5.3	5.3	6.0	1.5	±0.3	0.5-0.8
6.3	5.7	6.6	6.6	7.3	2.0	±0.3	0.5-0.8
6.3	7.7	6.6	6.6	7.3	2.0	±0.3	0.5-0.8
8	10.5	8.3	8.3	9.0	3.1	±0.5	0.7-1.2
10	10.5	10.3	10.3	11.0	4.7	±0.5	0.7-1.2

■ Rated Ripple Current Multipliers

Frequency (Hz) / Capacitance (μF)	50	120	1k	10k up
1 ~ 100	0.70	1.00	1.35	1.50
100 ~ 2200	0.80	1.00	1.20	1.30

Note: All design and specifications are for reference only and is subject to change without prior notice. If any doubt about safety contact us immediately for technical assistance before purchase.

Dongguan Heyue Electronic Co., Ltd. www.heyuecap.com

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Autodesk RVT_ELEC_01101 考試大綱：

主題	簡介
主題 1	• Families: This section of the exam measures the skills of BIM Modelers and focuses on creating and editing Revit families. It includes defining MEP connectors, understanding system and component family types, configuring family categories, and setting up light sources. The section also assesses parameter creation, annotation family setup, and controlling element visibility to ensure effective customization and reuse across electrical projects.

主題 2	• Modeling: This section of the exam measures the skills of Electrical Designers and covers creating and managing electrical elements within Revit. It includes adding electrical equipment such as panelboards and transformers, configuring circuits and low-voltage systems, and using the System Browser for navigation. Candidates must also demonstrate the ability to model connecting geometry, including conduits, cable trays, and wiring, with appropriate settings and fittings.
主題 3	• Collaboration: This section of the exam measures the skills of Project Coordinators and covers collaboration workflows in Revit. It includes working with imported and linked files, managing worksharing concepts, and using interference checks. Candidates are also evaluated on data coordination through copy • monitor tools, exporting to different formats, managing design options, and transferring project standards to ensure effective teamwork in shared environments.
主題 4	• Analysis: This section of the exam measures the skills of Electrical Engineers and focuses on performing analytical tasks in Revit. It includes conducting load calculations, conceptual lighting analysis, and configuring electrical settings for load classifications and demand factors. Candidates must show the ability to use Revit's analysis tools to ensure proper electrical design performance and energy efficiency.
主題 5	• Documentation: This section of the exam measures the skills of Revit Technicians and covers manipulating views, templates, and schedules to produce accurate documentation. It includes managing panel schedules, creating various view types such as legends, callouts, and 3D views, and applying phasing and revision management. Candidates are also tested on annotation tools, including tags, keynotes, and note blocks, to ensure clarity and consistency in project documentation.

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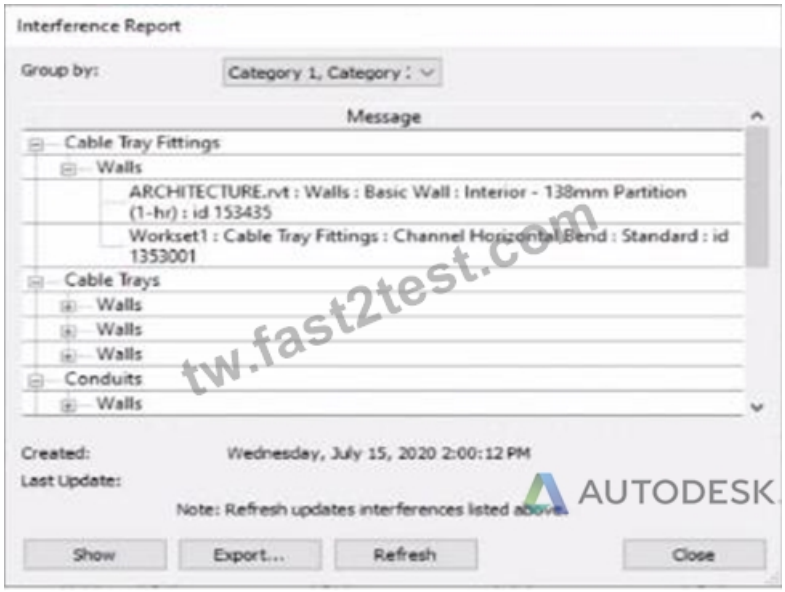
最新的 Autodesk Certified Professional RVT_ELEC_01101 免費考試真題 (Q59-Q64):

問題 #59
Refer to exhibit.



An electrical designer runs an interference check and reviews the Interference Report.
How can the designer select the cable tray fitting referenced in the interference to resolve the clash?

- A. Select the row with the cable tray fitting, click Show, and select the fitting.
- B. Click Export, expand Cable Tray Fittings, and select Channel Horizontal Bend: Standard.
- C. Double-click the fitting that appears in the list.
- D. Select the row with the cable tray fitting, and activate IDs of Selection.

答案：A

解題說明：
When performing an Interference Check in Revit, the Interference Report dialog is generated. This report lists all interfering elements found. To select or locate a specific element-such as a cable tray fitting-the designer must use the Show command.
The official workflow from the Revit documentation clearly states:
"To see one of the elements that is intersected, select its name in the Interference Report dialog, and click Show. The current view displays the problem." This confirms that selecting the row that lists the interfering cable tray fitting and clicking Show will highlight and activate the view containing the clashing element-allowing it to be modified or moved to resolve the conflict.
This means the designer must:
Click the row containing the cable tray fitting in the Message list.
Click Show to highlight and locate it in the model view so the clash can be addressed directly.
This reference explicitly confirms that Show is the correct method to select the clashing cable tray fitting from the interference results in order to resolve the conflict.

問題 #60
Which condition applies when placing a colling-hosted light fixture?

- A. The light must be placed in the same model as the ceiling
- B. The light must be defined in the ceiling layout pattern.
- C. The light must be snapped to the celling using nodes.
- D. The light must be hosted to the celling reference plane.

答案：A

解題說明：
According to Autodesk's Revit MEP User's Guide (Revit MEP 2011, Chapter 17 "Electrical Systems"), lighting fixtures in Revit are hosted components-this means they rely on another model element (like a wall, ceiling, or floor) to exist. Specifically, ceiling-hosted lighting fixtures must be placed on a ceiling element that is within the same model file in which the light is being placed.
From the document:
"Most lighting fixtures are hosted components that must be placed on a host component (a ceiling or wall). To place a lighting fixture in a view:
In the Project Browser, expand Views (all) ➤ Floor Plans, and double-click the view where you want to place the lighting fixture.
Click Home tab ➤ Electrical panel ➤ Lighting Fixture.
In the Type Selector, select a fixture type.
On the ribbon, verify that Tag on Placement is selected to automatically tag the fixture.
Move the cursor over the drawing area.
The lighting fixture is previewed as you move the cursor over a valid host or location in the drawing area.
Click to place the lighting fixture."
- Revit MEP User's Guide, Chapter 17: Electrical Systems, p. 402
Additionally, in the Rendering section of the same guide, Autodesk clearly defines hosting relationships in lighting fixture templates:
"The names of all lighting fixture templates include the words Lighting Fixture. Be sure to select the appropriate template for the type of lighting fixture that you want to create. For example, to create a ceiling-based fixture for metric projects, use Metric Lighting Fixture ceiling based.rft.
Revit MEP opens the Family Editor. The template defines reference planes and a light source. For ceiling-based and wall-based fixtures, the template includes a ceiling or wall to host the fixture."
- Revit MEP User's Guide, Chapter 50: Rendering, p. 1148
This indicates that the ceiling host must physically exist within the same model environment. If the ceiling is part of a linked architectural model, the lighting fixture cannot attach to it directly because Revit does not allow cross-model hosting. In such cases, a work plane-based or face-based light family must be used instead.
Therefore, among the given options:
A (snapping using nodes) and B (hosted to a ceiling reference plane) are partial actions within a placement workflow, not hosting

conditions.
C (defined in the ceiling layout pattern) is incorrect because pattern layout does not determine hosting.
D (placed in the same model as the ceiling) is correct since Revit requires the ceiling host and the light fixture to exist in the same project file for the hosting relationship to function.
Verified Reference Extracts from Revit for Electrical Design Documentation:
Autodesk Revit MEP User's Guide (2011), Chapter 17: Electrical Systems, p. 402 - "Most lighting fixtures are hosted components that must be placed on a host component (a ceiling or wall)." Autodesk Revit MEP User's Guide (2011), Chapter 50: Rendering, p. 1148 - "For ceiling-based and wall-based fixtures, the template includes a ceiling or wall to host the fixture." Revit MEP Family Templates Description - Metric Lighting Fixture ceiling based.rft defines the ceiling as the hosting reference within the same model environment.

問題 #61
Refer to exhibit.
(The Image is presented in Imperial units: 1 In = 25 mm [Metric units rounded).)

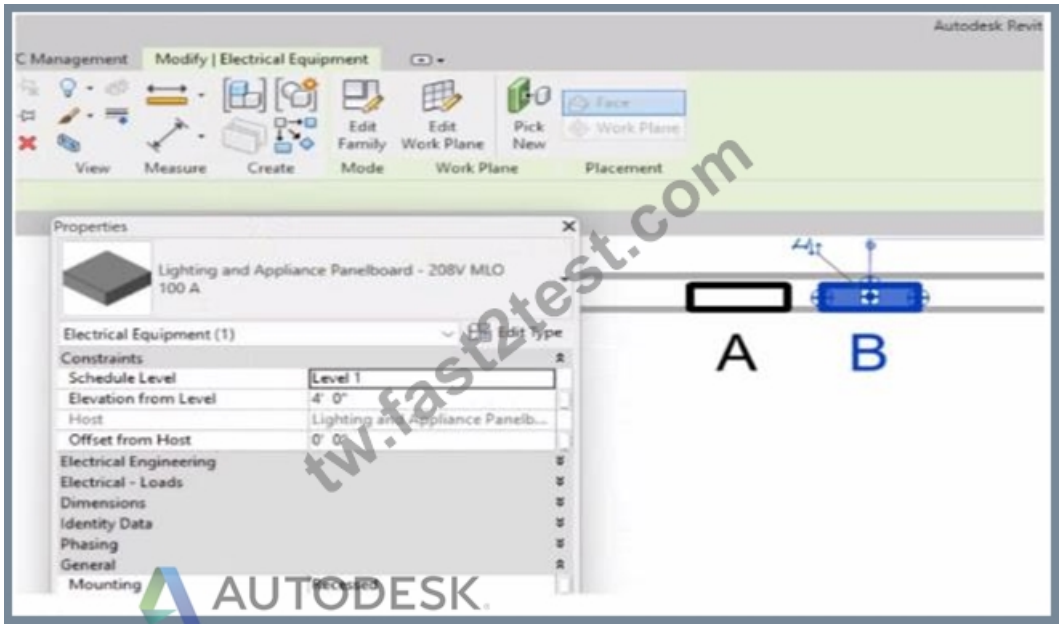
What is the electrical designer trying to do as shown in the exhibit?

- A. Array Conduit
- B. Add Cable Tray
- C. Place Multiple Pipe
- D. Place Parallel Conduits

答案：D

解題說明：
The exhibit shown in the image is taken directly from the Revit MEP Electrical Systems workspace, specifically from the Parallel Conduits command interface. This dialog box appears when the designer activates the Place Parallel Conduits tool in the Systems tab → Electrical panel → Conduit dropdown → Parallel Conduits.
In this interface, the designer can specify:
Horizontal Number / Offset - defines how many conduits will be created horizontally and their spacing.
Vertical Number / Offset - defines how many conduits will be created vertically and their spacing.
Bend Radius Options:
Same Bend Radius - all conduits use identical bend radii.
Concentric Bend Radius - conduits bend concentrically around a common center point.
According to Autodesk's Revit MEP 2011 User's Guide (Chapter 18, Electrical Systems - Conduit Layout):
"The Parallel Conduits tool allows you to create multiple conduits side-by-side at the same time.
You can specify the number of conduits horizontally and vertically, as well as the offset between them.
You can also define whether bends have the same bend radius or concentric bend radii."
- Revit MEP User's Guide, Electrical Systems, Section: Conduit Layout
This tool is used when electrical designers need to route groups of conduits that run in parallel-such as power and data conduits running between panels or equipment racks.
The Concentric Bend Radius option (as shown in the exhibit) ensures all conduit bends share a common center, which is critical for maintaining uniformity in conduit sweeps and avoiding clashes during coordination.
Therefore:
A . Add Cable Tray - incorrect; the cable tray tool is separate and does not use bend radius options.
C . Array Conduit - incorrect; arraying is a different geometric function not specific to conduit routing.
D . Place Multiple Pipe - incorrect; applies to mechanical piping systems, not electrical conduits.
The display of Concentric Bend Radius, Horizontal Number, Vertical Number, and Offset confirms that the designer is using the Parallel Conduit placement tool.
Verified Reference Extracts from Revit Electrical Design Documentation:
Autodesk Revit MEP User's Guide (2011) - Electrical Systems → Conduit Layout → "Parallel Conduits Tool" description.
Autodesk Revit MEP Training Curriculum - Electrical Module, Exercise 6.3 "Placing Parallel Conduits," which illustrates the same interface for bend radius configuration.

問題 #62
Refer to exhibit.



An electrical designer has accidentally hosted Panel B to Panel A. Select two ways the designer can correct hosting. (Select two.)

- A. Edit the Host value in the Properties palette.
- B. Use the Pick New command in the Work Plane panel.
- C. Use the Edit Work Plane command
- D. Edit the Mounting value in the Properties palette.
- E. Use the Move command.

答案： B,C

解題說明：
In Autodesk Revit's Electrical discipline, when electrical components such as panelboards are hosted incorrectly (for example, Panel B hosted to Panel A instead of a wall or level), the hosting relationship must be corrected by reassigning the work plane or host. This is essential because hosted electrical elements depend on the geometry or level of their host for placement, alignment, and coordination.
According to the Revit MEP User's Guide (Chapter 45 "Work Planes and Element Hosting"):
"If a hosted element is placed incorrectly or the host has changed, use the Edit Work Plane or Pick New commands to redefine its host or work plane." Here's how these two tools apply:
Pick New (Option A)
Located under the Work Plane panel on the Modify tab, this command allows you to select a new face or host (e.g., a wall, ceiling, or floor) for the existing component. It effectively reassigns the element's host without deleting or recreating the element.
"Use Pick New to specify a different face or surface as the host for a component that was incorrectly placed."
Edit Work Plane (Option E)
This command lets the designer redefine the reference level or named work plane to which an element is associated. For hosted electrical equipment (like lighting or panels), this ensures the object references the correct structural or architectural surface.
"To correct hosting errors, open Edit Work Plane from the Modify tab, and assign a new named plane, level, or face." Incorrect Options Explanation:
B . Edit Mounting value - changes only how the panel is mounted (e.g., recessed or surface), not the host itself.
C . Move command - repositions the element but does not change the hosting relationship.
D . Edit Host value - the "Host" parameter is read-only; it cannot be edited directly.
Thus, the correct methods to rehost Panel B from Panel A to the correct wall or work plane are through Pick New and Edit Work Plane, ensuring proper association and maintaining system connectivity.
References:
Autodesk Revit MEP User's Guide - Chapter 45 "Work Planes and Hosting," pp. 1068-1072 Smithsonian Facilities Revit Template User's Guide - Section 6.2.3 "Complex Geometry and Multiple Parametric Relationships," p. 57 Autodesk Revit Electrical Design Essentials - "Rehosting Electrical Equipment and Devices"

問題 #63

How can an electrical designer see changes from other users without saving their own work to the central model?

- A. Relinquish All Mine
- B. Manage Worksets
- C. Worksharing Display
- D. Reload Latest

答案：D

解題說明：
In Autodesk Revit, particularly for electrical and MEP design disciplines using a workshared model, the command "Reload Latest" allows a designer to see changes made by other users without saving or publishing their own work to the central model. This tool ensures that while the designer continues to work locally, their environment stays updated with the latest modifications made by colleagues.
According to the Autodesk Revit MEP User Guide (Chapter 54 - Working in a Team), under the section Loading Updates from the Central Model, it states:
"As you work, you can see the changes other team members have made to the project after they have been synchronized with the central model. You can load updates from the central model without publishing your changes to the central model.
In your local file, click Collaborate tab ➢ Synchronize panel ➢ (Reload Latest)." This confirms that the Reload Latest command refreshes your local file with any modifications from the central file that others have synchronized, but it does not send your local changes back. It is a critical feature for coordination in a team environment, especially when multiple designers-such as electrical, mechanical, and structural engineers-are contributing simultaneously to a shared BIM model.
By contrast:
A . Relinquish All Mine only releases ownership of elements but doesn't update the local model.
C . Manage Worksets is for controlling visibility and editability of worksets.
D . Worksharing Display visually identifies ownership and status but doesn't refresh model data.
Therefore, when an electrical designer needs to review updates from others (for example, when a lighting layout needs coordination with architectural ceiling adjustments), the proper workflow is to use Reload Latest, ensuring all new information from the central model appears instantly without saving or affecting their current unsaved edits.
References:
Autodesk Revit MEP 2011 User's Guide, Chapter 54: Working in a Team, "Loading Updates from the Central Model," pp. 1332-1333.
Autodesk Revit Structure User's Guide, Chapter 49: Working in a Team, "Loading Updates from the Central Model," p. 1230.
Smithsonian Revit Template Guide (2021), Section 6.3.1 How Worksharing Works, confirming synchronization and reloading behavior for shared Revit environments.

問題 #64
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