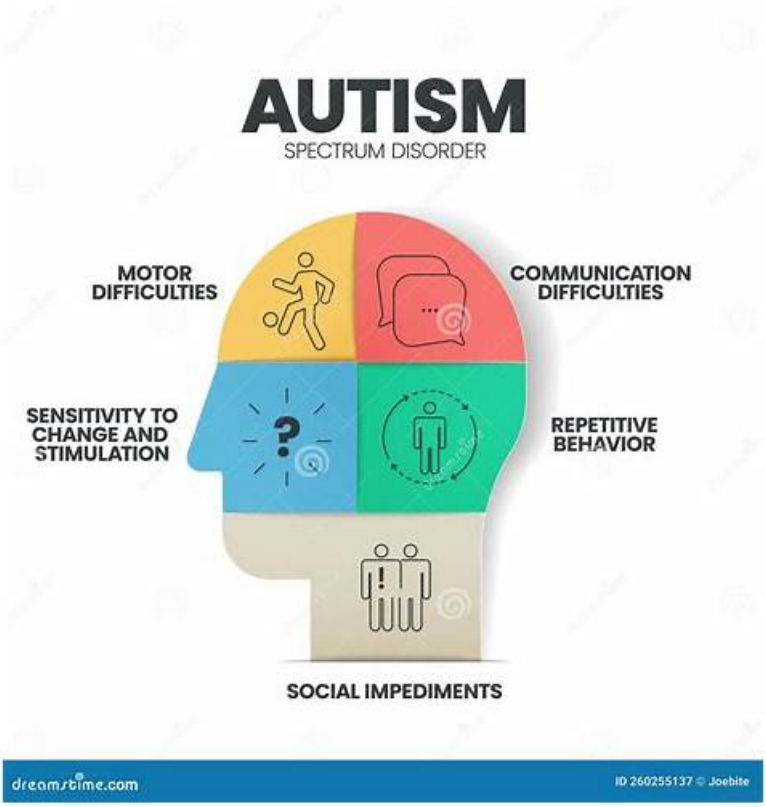
PDD Übungsmaterialien & PDD Lernführung: ARE 5.0 Project Development and Documentation Exam & PDD Lernguide



Wenn Sie die NCARB PDD Zertifizierungsprüfung bestehen wollen, ist es doch kostengünstig, die Produkte von ZertFragen zu kaufen. Denn die kleine Investition wird große Gewinne erzielen. Mit den Prüfungsfragen und Antworten zur NCARB PDD Zertifizierungsprüfung von ZertFragen können Sie die Prüfung sicher bestehen. ZertFragen ist eine Website, die einen guten Ruf genießt und den IT-Fachleuten die Prüfungsfragen und Antworten zur NCARB PDD Zertifizierungsprüfung bieten.

NCARB PDD Prüfungsplan:

Thema	Einzelheiten
Thema 1	• Construction Cost: This section of the exam measures the skills of Construction Managers and focuses on the financial side of project execution. It evaluates the ability to analyze construction cost estimates to confirm that they align with project design intent and budgetary constraints. Although this is the smallest section, it is critical for ensuring projects remain feasible and economically viable.
Thema 2	• Integration of Building Materials & Systems: This section of the exam measures the skills of Architectural Designers and focuses on the ability to resolve and integrate various building systems into cohesive project goals. It covers analyzing architectural systems and technologies, determining the size of structural, mechanical, electrical, and plumbing systems, and incorporating specialty systems such as acoustics, lighting, security, and communications. It also evaluates the ability to detail how multiple building systems work together and to coordinate across disciplines to achieve a unified design.

Thema 3	• Construction Documentation: This section of the exam measures skills of Project Architects and addresses the creation and management of project documentation. Candidates are expected to demonstrate knowledge of documenting building design and site features, preparing detailed architectural drawings, and applying industry standards to produce a coordinated set of construction documents. The section also includes understanding how project changes impact documentation and how to communicate these updates effectively to both the design team and the client.:
Thema 4	• Codes & Regulations: This section of the exam measures skills of Building Code Specialists and examines how codes and regulations apply at a detailed level during documentation. Candidates are expected to demonstrate knowledge of compliance with the International Building Code (IBC) as well as other specialty regulations, as well as how to interpret and apply these standards to ensure design and documentation meet legal and safety requirements.
Thema 5	• Project Manual & Specifications: This section of the exam measures the skills of Specifications Writers and emphasizes the importance of developing documentation that goes beyond drawings. Candidates must understand how to identify and prioritize elements needed to prepare, maintain, and refine both the project manual and project specifications. It also assesses the ability to align and coordinate these specifications with the construction documents to ensure consistency and accuracy.

NCARB ARE 5.0 Project Development and Documentation Exam PDD Prüfungsfragen mit Lösungen (Q20-Q25):

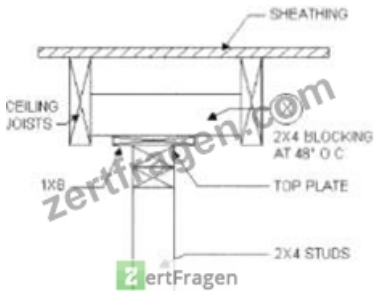
20. Frage
Which of the following documents would the architect need in order to prepare the specifications?

- A. Geotechnical report, building sections, and room finish schedule
- B. Architectural floor plans, room finish schedule, and traffic management plan
- C. Legal survey, geotechnical report, and traffic management plan
- D. Legal survey, engineering drawings, and door schedule

Antwort: A

Begründung:
To prepare project specifications, the architect requires documents that inform about site conditions, building construction, and interior finishes:
Geotechnical report provides soil conditions, foundation recommendations, and site constraints.
Building sections provide detailed information on assemblies, materials, and vertical relationships.
Room finish schedule identifies finishes, materials, and related specifications for interior spaces.
Legal surveys, traffic management plans, and door schedules are important for planning and design coordination but less directly informative for writing specifications.
References:
NCARB ARE 5.0 Review Manual, Project Development and Documentation chapter CSI Construction Specifications Practice guides Project delivery and documentation best practices

21. Frage



Refer to the exhibit.
What is the primary function of the 2 x 4 blocking shown at X in the drawing?

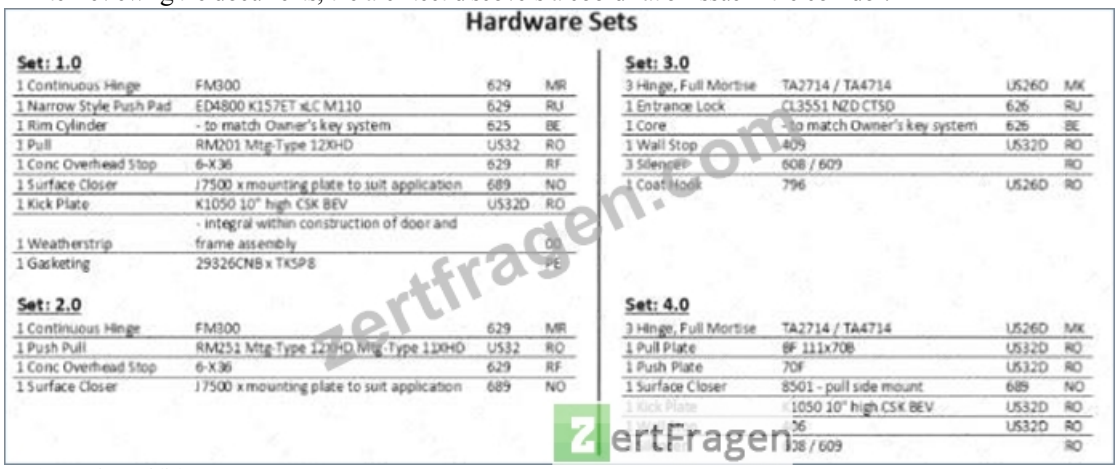
- A. Support the top of the partition
- B. Brace the ceiling joists
- C. Transfer the lateral load to the 1 x 8
- D. Transfer the lateral loads from the ceiling joists

Antwort: B

Begründung:
Comprehensive Detailed Explanation with all NCARB ARE 5.0 Project Development and Documentation (PDD) Study Guide References:
In wood frame construction, blocking installed between joists at regular intervals (commonly 48 inches on center) serves primarily to brace and stabilize the joists laterally, preventing twisting and lateral displacement under load.
The 2x4 blocking at point X, placed perpendicular between the ceiling joists, acts as cross bracing.
It resists lateral torsional buckling of the joists and distributes loads evenly.
It also helps maintain alignment during construction and after the finish materials are installed.
The blocking does not support the partition top plate directly (that is the function of the studs beneath), nor does it transfer lateral load to the 1x8. Its main role is structural bracing for the joists.
Supporting References:
NCARB ARE 5.0 Review Manual, Project Development and Documentation, Structural Systems chapter Wood Frame Construction details from International Residential Code (IRC) Building construction texts such as "Fundamentals of Building Construction" by Allen and Iano, which describe blocking used to brace joists.

22. Frage
A family-owned apple farm in the Upper Midwest is taking advantage of a change in the local zoning code that added a new Agri-Tourism class in the existing farm zone. This allows the Owner to build a new facility on their existing site. The building will be open to the public and include a brewery, distillery, tap room, and market. The architect is ready to submit the drawings to the Owner for the 50% construction documents review.
To accommodate a compressed construction schedule, the Owner will be utilizing a design-build process. The Contractor has submitted the Pre-Engineered Metal Building (PEMB) shop drawings to the Architect for review, due to the lead time on this critical path item. Once construction begins, farming operations must be able to continue uninterrupted.
Key project information includes:
* Brewing and distilling will operate year-round.
* Brewery will initially include four fermenting tanks. Owner has requested space for at least two additional tanks. Potential expansion will be based on future sales.
* Distillery will produce 16% alcohol, which is classified as a flammable liquid. Fire separations are required.
* Tap Room is designed with seating for 300 people, not including exterior patio seating. It will have views to the working orchards and the historic buildings on site.
* Tap Room is scheduled to be open from August through November. Owner would like options to extend operating dates based on popularity.
* The Market area will feature local farm products and is not conditioned.
* Entire building will be fully sprinklered.
* Selected building materials are low-maintenance, as requested by the Owner, for durability and to reflect the nature of a working farm.
* Mechanical and electrical systems will be hung from the building structure. These loads are included in PEMB shop drawings.
* Public water and sewer is not available at the Project Site.
* Occupancy sensors are included to reduce utility costs and achieve energy conservation requirements.
The following resources are available for your reference:
* Architectural Drawings, including plans, elevations, sections, and schedules

* Consultant Drawings, including structural, HVAC, power distribution, and plumbing
* PEMB Shop Drawings
* Design and Construction Schedule
* Specification Excerpts, showing relevant spec sections
* IBC and ADA Excerpts, showing relevant code and accessibility sections
* After reviewing the documents, the architect discovers a coordination issue in the corridor.



Hardware Sets

Set: 1.0

1 Continuous Hinge	FM300	629	MR
1 Narrow Style Push Pad	ED4800 K157ET x LC M110	629	RU
1 Rim Cylinder	- to match Owner's key system	625	BE
1 Pull	RM201 Mtg Type 12XHD	US32	RO
1 Conc Overhead Stop	6-X36	629	RF
1 Surface Closer	J7500 x mounting plate to suit application	689	NO
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Weatherstrip	- integral within construction of door and frame assembly		CO
1 Gasketing	29326CNB x TKSPS		PE

Set: 2.0

1 Continuous Hinge	FM300	629	MR
1 Push Pull	RM251 Mtg Type 12XHD Mtg Type 12XHD	US32	RO
1 Conc Overhead Stop	6-X36	629	RF
1 Surface Closer	J7500 x mounting plate to suit application	689	NO

Set: 3.0

3 Hinge, Full Mortise	TA2714 / TA4714	US26D	MK
1 Entrance Lock	CL3551 NZD CTSD	626	RU
1 Core	- to match Owner's key system	626	BE
1 Wall Stop	409	US32D	RO
3 Silencer	608 / 609		RO
1 Coat Hook	796	US26D	RO

Set: 4.0

3 Hinge, Full Mortise	TA2714 / TA4714	US26D	MK
1 Pull Plate	BF 111x70B	US32D	RO
1 Push Plate	70F	US32D	RO
1 Surface Closer	8501 - pull side mount	689	NO
1 Kick Plate	1050 10" high CSK BEV	US32D	RO
[illegible]	36	US32D	RO
[illegible]	08 / 609		RO

Refer to the exhibit.
Which hardware set should be specified for door number 27?

- A. Hardware set 4.0
- B. Hardware set 1.0
- C. Hardware set 3.0
- D. Hardware set 2.0

Antwort: C

Begründung:
Hardware Set 3.0 includes: three full-mortise hinges, an entrance/privacy lock, matching core, wall stop, silencers, and a coat hook. That combination is the typical specification for a single-occupant toilet room or similar private room opening off a corridor-privacy latch (not an exit device), door control, and a coat hook inside. Sets 1.0 and 4.0 are push/pull or exit-device packages (for egress/assembly or non-latching doors), and Set 2.0 is a basic push-pull set without a latch-none of which meet the corridor toilet-room function.
PDD refs: Division 08 door hardware scheduling; coordination of door sets with room function and code egress/privacy requirements.

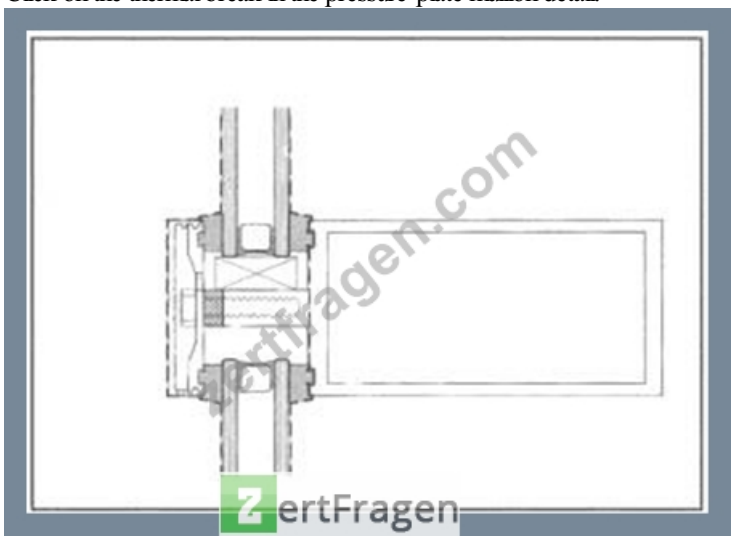
23. Frage
An architect is designing a sub-surface drainage system that outfalls into a site retention pond. The recommended shape, size, and slope of the drainage lines need to be determined for primarily which of the following purposes?

- A. To minimize the desired flow
- B. To obtain the desired velocity
- C. To increase the desired velocity
- D. To maximize the desired flow

Antwort: B

Begründung:
In subsurface drainage system design:
The shape, size, and slope of drainage lines are selected primarily to achieve a desired flow velocity that prevents sedimentation and clogging but does not cause erosion.
Minimizing or maximizing flow is not the goal; the system must convey the design flow efficiently.
Velocity must be balanced - too low leads to sediment build-up; too high causes pipe damage.
Reference:
NCARB ARE 5.0 Review Manual, Site Design and Civil Engineering chapter
Drainage design principles from civil engineering manuals and EPA stormwater guidelines

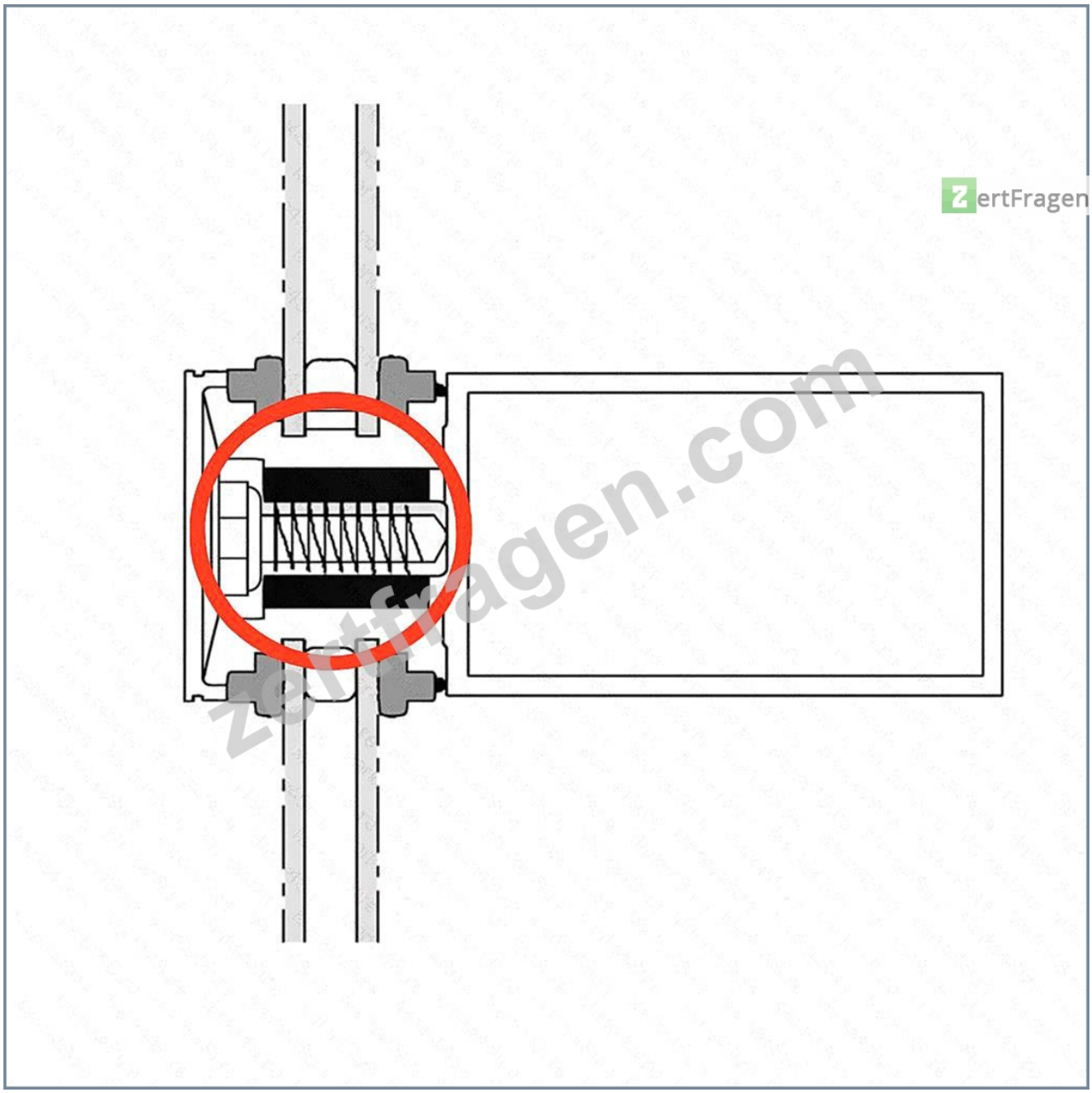
24. Frage
The design of a 10-story residential building features a curtain wall system on all four elevations. Due to diurnal temperature swings in the area, the curtain wall will need a thermal break to prevent the transfer of heat into the building.
Click on the thermal break in the pressure-plate mullion detail.



Antwort:

Begründung:

Explanation:



In the provided pressure-plate curtain wall mullion detail, the thermal break is typically located between the interior and exterior aluminum components of the mullion to prevent conductive heat transfer.
Thermal Break Location:
Look for the black or dark shaded strip in the middle of the mullion where the two separate metal parts meet - this strip is a non-metallic insulating material (usually polyamide or other plastic) that interrupts the metal-to-metal connection between interior and exterior.
In this image, the thermal break is located:
In the vertical center of the mullion, between the inner and outer aluminum extrusions, where a black isolator or separator is shown (just above and below the screw/fastener).
Clicking on this narrow dark band (thermal isolator) between the inner and outer components of the curtain wall mullion would be the correct hotspot answer.

25. Frage

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PDD Lerntipps: https://www.zertfragen.com/PDD_prufung.html

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