

# Bicsi Data Center Design Consultant - Dcdc

1. What is the minimum thickness of an elevated floor topping over metal flutes?

A.  
1,5Inch

B. 4 Inches

C. 2 inches, 3 Inches

**Answer(s): A**

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2. What is the recommended placement of electrical distribution sub systems

A. install in dedicated electrical rooms, or, locate outside the computer room with fire rated wall

B. install within the computer room space on raised floor

C. install within server racks

D. none of the above

**Answer(s): A**

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3. Apart from marine cargo ports, hazardous material transport roadways, transportation roadways, and flight paths, what other things should a data centre be at least one mile away from?

A. Petroleum storage installations like petrol stations & oil storage facilities only.

B. Waste-disposal units and dumpsites only.

C. All of The Above

D. Fireworks manufacturing companies only.

**Answer(s): C**

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4. Where should power cable be ran in an access floor?

A. Below the access floor

B. Hot aisle

C. Above the access floor

D. Cold aisle

**Answer(s): D**

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5. What is the clearance required between the cold aisle and the CRAC unit?

A. 4 feet

B. 2 feet

C. 6 feet

D. 8 feet

**Answer(s): D**

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6. What kind of height clearance should data center access roads have?

A. A Minimum clear road width and sixteen (16) ft height clearance throughout.

B. A Minimum clear road width with fourteen (14)ft high clearance throughout.

C. None Of The Above.

D. A Minimum clear road width and six(06) ft height clearance throughout.

**Answer(s): B**

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7. Why are H DAs more often required in data centers?

A. they enhance cooling effectiveness

B. they minimize noise pollution

C. they improve fire suppression system

D. they avoid cable congestion

**Answer(s): D**

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8. What is the formula to find the maximum allowable cable depth in a non-solid bottom cable tray?

A.  $H = 150/1 + (L * 0.0007)$

B.  $H = 50/1 + (L * 0.0007)$

C.  $H = 100/1 + (L * 0.0007)$

D.  $H = 200/1 + (L * 0.0007)$

**Answer(s): A**

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9. where should printers be located

A. placed outdoor, away from building facilities

B. beside high traffic areas

C. near equipment that has active air flow to cool them down

D. in a dedicated print room with dedicated air handling system

**Answer(s): D**

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**10.** What are three primary considerations in designing the power systems space plan?

A. Physical security, environmental monitoring, backup power source

B. Energy utilization, efficiency of cooling and redundant generators

C. Leakage current control, firewall protection & hardening redundancy

D. Reduce transmission loss, conduit path minimizing & spacing requirement for system

**Answer(s): D**

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**11.** What electrical service feed options are there for a data center?

A. Single Entrance/Dual Pathway

B. Dual Entrance/Dual Pathway

C. All of the above

D. Single Entrance/Single Pathway

**Answer(s): C**

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**12.** What is the appropriate fire rating requirements for an electrical room?

A. 1 hour

B. 2 hours

C. 3 hours

D. 1/2 hour

**Answer(s): A**

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**13.** what are the dimensions of circulation pathways?

A. 4 feet wide and have clear overhead of 8 feet

B. 5 feet width with a height of 7feet.

C. 6feet width, width depends on the layout functionality.

D. None

E. All

**Answer(s): A**

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**14.** What is the minimum slab floor to ceiling height recommended?

A. 16feetminimum

B. 14feetminimum

C. 15feetminimmum

D. 12feetminimum

**Answer(s): C**

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15. What is the recommended amount of fuel supply to be available to a class F4 data center?

A. 72 hours

B. 24 hours

C. 48 hours

D. 96 hours

**Answer(s): D**

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16. What is the minimum distance from the bottom of the access floor to the top of the cable tray?

A. 5 inches

B. 1 inch

C. 3 inches

D. 2 inches

E. 4 inches

**Answer(s): D**

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17. Which areas should generate a history of all access attempts and monitored by CCTV Security System?

A. Any concealed places

B. Computer rooms, Loading docks, storage areas, Staging areas and Vendor Storage

C. Only computer rooms

D. Storage Areas

E. Loading Docks

**Answer(s): B**

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**18.** what is the recommended height, of the support room pathway

A. 9 ft

B. 8ft

C. 7ft

D. 6ft

**Answer(s): A**

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**19.** what is the second preference regarding utility service

A. At least four circuits each from different distribution stations but fed via common feeders

B. Two balanced feeds with different voltages derived from a single distribution station

C. At least One Circuit from two Separate Substations and Different Voltage Levels

D. One balanced feeder coordinated with upstream backup feed

**Answer(s): B**

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**20.** What is the typical air delivery temperature from a CRAC unit?

A. 15-18 degrees Celsius

B. 20-25 degrees Celsius

C. 10-13 degrees Celsius

D. 13-16 degrees Celsius

**Answer(s):** D

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