

# Cost of Lightning Protection for Data Center Racks in Japan

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Why is copper lightning protection more expensive than aluminum?

Copper lightning protection equipment is generally more expensive than aluminum due to commodity prices. There are also regional biases that favor one material over the other. In nonresidential buildings, roof area is the most significant factor in determining the work required to install lightning protection.

What happens if lightning strikes a non-residential property?

Lightning fires in non-residential properties cause an average of over \$100 million in direct property damage annually, not including damage due to electrical or equipment malfunctions, non-fire-related structural damage, or consequential damages. Additional risks include injury and death due to lightning strikes. 1

How much property damage does lightning cause a year?

Lightning accounts for about \$1 billion a year in homeowner's insurance claims for property damage. Lightning fires in non-residential properties cause an average of over \$100 million in direct property damage annually, not including damage due to electrical or equipment malfunctions, non-fire-related structural damage, or consequential damages.

The cost of rack systems for a data center can vary significantly depending on several factors, including the size of the racks, the type of racking system you choose, the capacity and ...

To allow for comparison between regions, material types and construction styles, the pricing for installed lightning protection systems was broken down according to square feet of roof area ...

Studies show that the cost of installing lightning protection systems is significantly lower than the potential cost of damage from lightning strikes, making it a worthwhile ...

Factors influencing growth include the high cost of advanced protection devices, which may limit adoption

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among smaller businesses or residential users, although this is ...

With no lightning strikes and no resulting electrical damage, data centers can operate 24/7 without fear of unexpected outages. According to industry reports, the cost of ...

Why Lightning Protection Systems are So Important for data centers Imagine a lightning strikes a data center. When your data center goes down, it affects more than just your bottom line. Data ...

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