





DECISION TREE

Clause Number 443.4

SCENARIO 1

Surge Protection Must Be Provided

Surge protection must be provided where overvoltage could:

- Cause serious injury/loss of life
- Cause interruption of public services
- Cause damage to cultural heritage
- Cause interruption to commerical/ industrial activity
- Affect a large number of co-located individuals

Mandatory to fit

protection devices against transient voltages

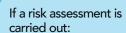
SCENARIO 2

All Other Cases

A risk assessment must be performed to determine if surge protection is needed



If no risk assessment is carried out **surge** protection must be provided





A Risk assessment valuation more than 1000, **no need** for surge protection



B Risk level evaluation less

SCENARIO 3

With The Exception Of Single Dwelling (Domestic) Units

Surge Protection may be required in single dwelling (domestic) units:

- A Designer/installer establishes what the customer requires.
- **B** They look at the perceived value of the installation and equipment within the dwelling



Installed value does not warrant surge protection no need to fit



See section 534 of BS 7671 to establish the selection of SPD's for protection against transient over-voltages where required by section 443

Requirements for overvoltage protection BS 7671:2018 18th Edition IET Wiring Regulations

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