



FIDAEL E-RA



FIDAEL EARTH



FIDAEL

FIDAEL E-TOOL

www.fidael.com

FIDAEL FOW



FIDAEL DECK





Fidael Power Solutions:- Simplifying the Lightning Protection & Earthing Design

Streamline your process with Fidael E-RA and Fidael Earth

At Fidael Power Solutions, we're dedicated to providing innovative solutions that simplify the complex task of lightning protection design. Our web-based E-tools, Fidael E-RA and Fidael Earth, offer a comprehensive and user-friendly approach that adheres to the highest industry standards.

By adopting Fidael E-RA and Fidael Earth, you can:

- **Improve project efficiency:** Streamline your design process and reduce turnaround time.
- **Enhance accuracy:** Ensure compliance with regulations and minimize risks.
- **Make informed decisions:** Access valuable data to optimize your designs.
- **Gain a competitive advantage:** Stay ahead of the curve with cutting-edge technology.

Experience the Fidael Difference

Join the growing number of professionals who trust Fidael Power Solutions to simplify their lightning protection design process. Discover how our E-tools can help you achieve exceptional results.

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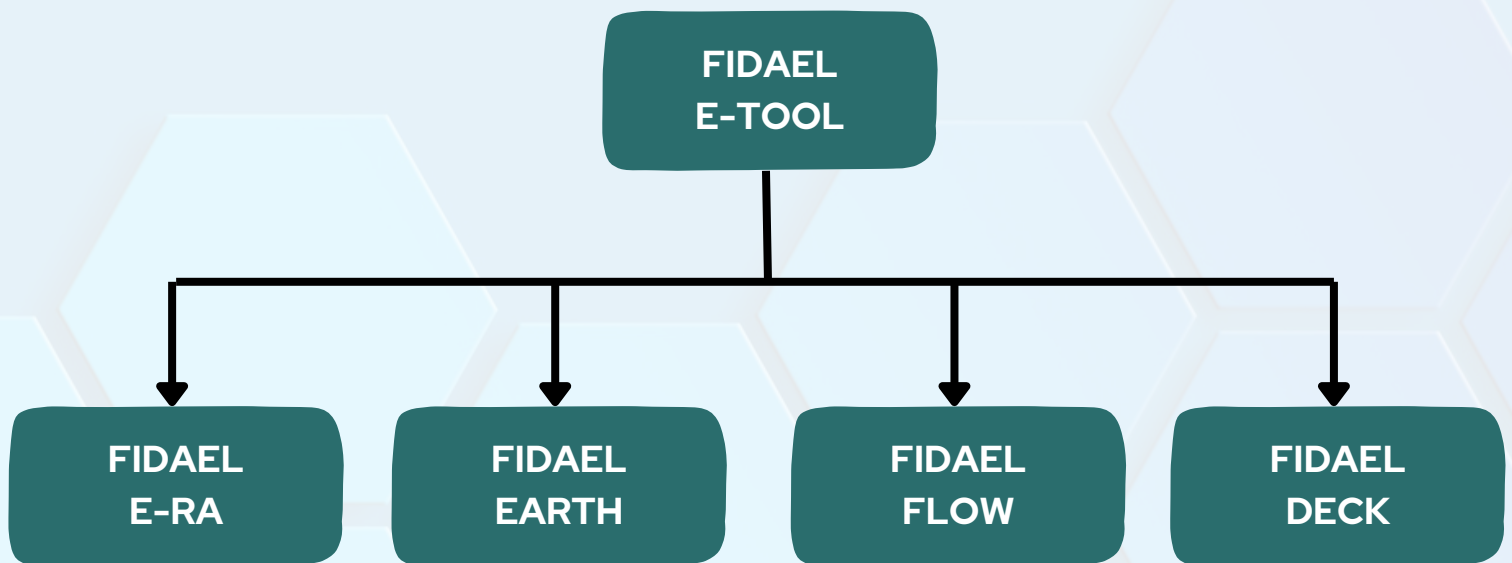
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Introduction



FIDAEL E-RA (E-RISK ASSESSMENT)

This tool is specifically designed by Fidael team to do the Risk assessment of any type of structure in fraction of seconds. It complies IS/IEC 62305-2 and NBCS Apr 2026 for the Risk Calculations.

Risk assessment for international projects can also be arrived by entering the location of project and knowing the Ground Flash Density.

FIDAEL EARTH

This tool is can be used widely by the customers for doing the Earthing calculation based on the required input parameters. The tool is designed in such a way that the details of Number of earth pits and the overall grid resistance can be obtained in just one click. The calculations are backed up IS 3043 and BS 7430 formulae.

FIDAEL FLOW

This tool is mainly used to select the conductor sizing. Depending on the required fault current, conductor sizing with different orientation and materials can be selected and the earthing designs can be performed. This software complies IEEE80 standards

FIDAEL DECK

This tool is mainly developed to do the installation, testing and commissioning of LPS and Earthing system. Entire process is tracked, monitored and documented digitally. This enhances the speed of the project and installation work is carried out in a smooth way.

Problem Statement

Fidael believes in simplifying the complex customer needs by providing an innovative, customized and cost effective solutions.

As LPS and Earthing involves multiple standards and codes like IEC 62305, NBSC 2026, NEC 2023, IS 3043; dependency for the calculation and design on vendor increases substantially. Due to which below challenges were observed from the customers:-

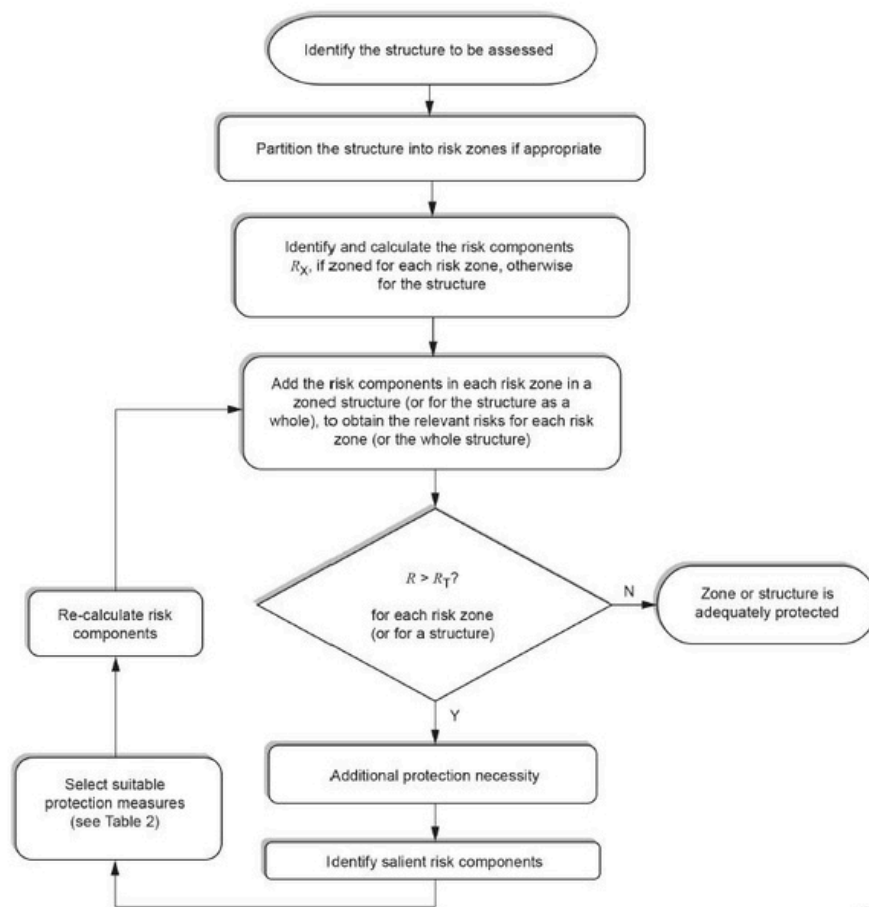
- a. Time consumption
- b. Changes in input parameters
- c. Multiple co ordination
- d. Loss of data
- e. Dependency on vendors
- f. Documentation process
- g. Design submissions
- h. Recovery of old details
- c. Approvals for software downloads
- and Many more.....

Fidael has analyzed this challenge and created E-tool which is web based tool which is the only one stop solution to address all the above issue.

Working Method

Fidael E-RA (E-Risk Assessment):-

- Fidael E-RA complies IS/IEC 62305-2 and NBCS Apr2016
- It works on Reverse Iteration Process.
- Flow chart on how it works is as below:-



Fidael EARTH:-

- Fidael EARTH complies IS 3043 & BS 7430 standards.
- It pulls pre-fed data from above standards.
- Based on the input parameters the Number of earth pits and overall grid resistance values can be determined.

Fidael FLOW:-

- Fidael FLOW complies with IEEE 80 standards
- Based on conductor orientation and materials, it analysis data from prefetched matrix and shares othe fault current output

Fidael DECK:-

- Fidael DECK is an ITC software that allows the SI and contractors to install the LPS and earthing system as per the drawings and BOQ complying with IEC 62305
- It does **D**ocumentation of entire process, **E**xecution support to system integrators and Contractors, **C**ertifies the completed project and provides the **K**nowledge on how to maintain the system and document the details provided post handover.

USPs



Complying Standards:-

Complies IS/IEC 62305 & NBCS Apr 2026 for Fidael E-RA and IS 3043 and BS 7430 for Fidael EARTH



Available & Accessible:-

Visit our website and register yourself to get the full access of Fidael E tools. Can be used from Laptop/Desktop and from Smartphones also. You can access your data any time as it is cloud based software.



Data Security:-

We believe in securing your privacy and Data. This E-tool is Based on OTP generation at your registered Email ID whenever you login. No one can access your details except you.



Independent :-

E Tool helps the customers to be independent as client can directly do the RA & Earthing calculation using the advanced tool.



Tracking & Monitoring :-

E Tool dashboard allows the customer to track the project design and documentation status and can get live updates.



Relevant and Easy Options:-

E Tool has drop-downs which has options that are easy to select depending on the project requirements.



USPs



Data Management:-

All the projects and communications are stored in Chronological order and the data can be accessed anywhere and anytime.



Informative Reports:-

Detailed report of risk assessment with and without LPS installation and Earthing Report will be generated which can be accessed and stored in the local servers.



Lightning speed output:-

The software operates in reverse iteration process where the output is generated in fractions of seconds.



Modifiable :-

Input parameters can be modified in later stage depending upon the architectural requirements and the required output can be generated in just one click



Transferable :-

The required drawings of any size can be downloaded and upload quickly and all the data are stored in cloud.



Universal Application:-

E Tool can be used for Domestic and Global Projects as it complies all international and domestic norms and standards.



USPs



Device Compatible:-

Can be accessed by any smart device and at any location. Compatible with any Windows and Android device.



Seamless communication:-

Customers will be in direct touch with our efficient design team through Fidael E tool and our back-end team will provide seamless support and communication with live project tracking.



User friendly:-

The software requires minimal training for its use as it is highly efficient and user friendly.



Reliable and Accurate :-

Outputs are tested multiple times and are complying and adhering to Global standards samples.



All-In-One :-

Fidael ETool is one stop solutions for LPS and Earthing requirement as it provides RA, Design, BOQ and offer all in one roof.



Streamlined:-

Quick and Hassle free login and E-Registration process.



HOW TO USE?

To use our advanced Fidael E-Tool follow below 5 steps:-

- ① Visit our website **www.fidael.com**
- ② Click ETool tab and a new page will open
- ③ Click Signup and fill the basic details and submit
- ④ Wait for the approval for 24hrs.
- ⑤ Once approved, Sign In , Enter Email ID the OTP



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BUSINESS TO NEXT LEVEL**



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