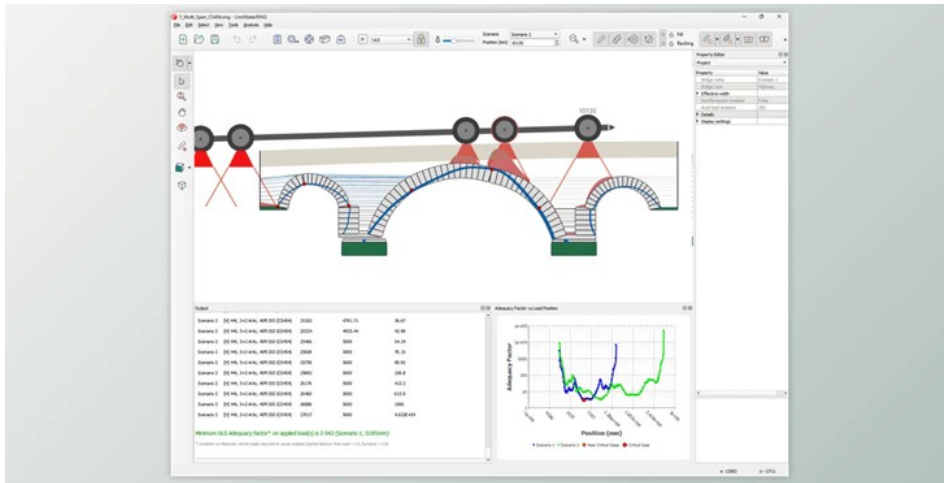


LimitState RING 4.0.6.30301

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LimitState RING 4.0.6.30301: Introducing LimitState: RING, the unparalleled software solution for masonry arch bridge analysis, is trusted by top consulting engineers, bridge owners, and universities worldwide. With its rapid analysis capabilities and user-friendly interface, LimitState: RING revolutionizes the process of understanding and optimizing masonry arch bridges.

Analysis Technology:

- **Rigid Block Analysis:** Utilizes rigid block modelling to simulate masonry elements, considering contacts and the beneficial effects of backfill.
- **Limit Analysis Theory:** Underpinned by rigorous Limit Analysis theory to obtain precise solutions.
- **Optimization:** Determines the line of thrust, pattern of hinges, and corresponding margin of safety through optimization techniques.

How It Works:

- Specify problem geometry, material properties, and loading.
- Model masonry elements using rigid blocks, accounting for contacts.
- Incorporate effects of backfill, such as load spreading.
- Utilize optimization to identify critical collapse mechanisms and margins of safety.
- **Speed:** Create a bridge model with vehicle loading in minutes, with analysis results available in seconds.
- **Power:** Utilize rigorous optimization to identify critical modes of response and safety margins, whether a single-span arch or a complex multi-ring viaduct.
- **Trust:** Developed by renowned experts and validated against laboratory and field bridge tests, ensuring reliability and accuracy.



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