

# ESDU Construction

## Construction Engineering Package



**The Source**  
for Critical Information and Insight™

The ESDU Construction Engineering package provides a comprehensive collection of analysis methods, design data and software. This suite of tools forms an important part of the design operation of many companies large and small throughout the world.

The practising structural engineer is faced with a plethora of data, rules, regulations and design procedures contained in hundreds of laws, codes of practice and other regulations. Advances in technology are driving engineers to design longer bridges, taller and slender towers and buildings, and larger offshore structures heavily loaded by winds and waves.

The ESDU Analytical toolbox provides a one-stop shop for engineers involved in research, design & analysis and product development. All ESDU tools are presented in a clear, concise and consistent format.

Available via the Internet, the ESDU Construction Engineering package covers:

- Structural Analysis
- Wind Engineering
- Sound Propagation
- Strength Analysis

The ESDU collection of tools covers stiffnesses, stresses and deflections, buckling loads, fatigue strengths, crack growth rates and growth thresholds. Comprehensive prediction procedures are provided for estimating forces and pressures due to wind action on structures. Methods for obtaining the natural vibration characteristics of buildings are given. Computer programs are included for predicting dynamic effects associated with the oscillation of a structure.





IHS ESDU provides validated engineering design data, methods and software that form an important part of the design operation of companies large and small throughout the world. Available via the Internet, Intranet or PC network, ESDU's vast range of industry-standard tools are presented in over 1380 design guides with supporting software. Guided and approved by independent international expert Committees, and endorsed by key professional institutions, ESDU methods are developed by industry for industry.

## Benefit from using ESDU by:

### Achieving greater design accuracy

With ESDU, you are gaining a concentration of the world's knowledge – validated – to help ensure your design calculations are accurate. ESDU complements the other design tools you use, e.g. Finite Element and Computational Fluid Dynamics techniques, in-house design procedures, codes, standards, etc.

### Saving time & meeting deadlines

While ESDU may not be the only design tool you need, it

will save you valuable time and reduce the number of other sources previously referenced.

### Preventing rework or redesigns

With the integrity and reliability of ESDU's content, your design is more likely to represent the final product than one based on less systematic and validated collections of information.

### Keeping projects within budget

Because ESDU helps you move through the initial phases of development more efficiently, you are able to achieve the desired design on time and under budget.

### Having design flexibility

Apply your skills and training with ESDU data and methods to explore design options and scenarios that lead to the best design.

## Your complete ESDU subscription includes:

- Validated methods, equations, worked examples and associated software.
- Regular updates and amendments. As new methods are developed the content in your subscription expands.
- Customer support including direct access to ESDU engineers via telephone, e-mail and fax to help you gain maximum value from your subscription.

**ESDU will quickly become one of the most valuable engineering design tools you will use!**

Your nearest Office:



ESDU International PLC,  
27 Corsham Street,  
London, N1 6UA, UK  
t: +44 (0) 1344 328000  
f: +44 (0) 1344 328008  
e: sales@ihsesdu.com  
w: www.ihsesdu.com

IHS Corporate Headquarters  
15 Inverness Way East  
Englewood, CO 80112, USA  
t: +1 303-736-3000  
w: www.ihs.com