BUILDINGS FOR A BETTER FUTURE

WWW.RAMBOLL.COM/BUILDINGS
Ramboll is a leading engineering, design and consultancy company employing 15,000 experts. Our presence is global with a strong representation in the Nordics, UK, North America, Middle East and Asia-Pacific. We constantly strive to achieve inspiring and exacting solutions that make a genuine difference to our customers, end-users and society as a whole. www.ramboll.com

15,000 EXPERTS
300 OFFICES
35 COUNTRIES

BUILDINGS
Buildings form a fundamental part of our lives by shaping our communities and daily activities.

For these reasons, Ramboll’s design philosophy is always to make room for the human experience. As one of Europe’s top 3 buildings designers with decades of experience in the global market, we create visionary, sustainable, and award-winning buildings that improve life for users and enhance the surrounding landscape. Read more at: www.ramboll.com/buildings

TRANSPORT
Mobility fuels economic and social development and with 50% of the world’s population now living in urban areas, efficient and reliable transport systems are essential.

To meet this need, Ramboll has been working on some of the world’s largest, most innovative infrastructure projects and is the leading consultancy in the Nordic market.

We create value for transport authorities, contractors and local authorities by providing multidisciplinary technical excellence and minimising resource usage. Read more at: www.ramboll.com/transport

ENVIRONMENT & HEALTH
As a globally recognised environmental and health consultancy, we have earned a reputation for technical and scientific excellence, innovation and client service.

Advances in science and technology and evolving regulatory, legal and social pressures create increasingly complex challenges for our clients. We evolve to keep pace with these changes – by adding new services, contributing to scientific advances or expanding geographically. Read more at: www.ramboll.com/environment

WATER
Water is essential to life and one of our most precious resources. Working with municipalities, utilities, and industrial clients Ramboll draws on proven multidisciplinary expertise to manage the most challenging water resources, wastewater, and storm water issues.

We integrate treatment process selection and engineering, operational services, and regulatory management and planning to deliver innovative solutions that benefit both industries and society. Read more at: www.ramboll.com/water

Front cover: Harpa Concert Hall, Reykjavik
OIL & GAS
To make it in today’s fast paced and competitive oil and gas market, companies depend on advanced technical solutions that combine economic efficiency with stringent health, safety and environmental (HSE) safeguards during the production and distribution processes.

These elements form an integral part of Ramboll’s independent and multidisciplinary consultancy service, which covers the entire project cycle. We excel in onshore consultancy and have designed offshore structures for industry giants such as Maersk Oil, DONG Energy and Statoil since the 1970s.

Read more at: www.ramboll.com/oil-gas

PLANNING & URBAN DESIGN
Ramboll’s holistic approach to urban development encompasses strategy, planning and world class technical design services and is based on an integrated multidisciplinary skills base.

We have an extensive track record working with a number of the world’s largest cities to create liveable, sustainable, and implementable urban development solutions that are fully adapted to the local context.

Read more at: www.ramboll.com/planning-and-urban-design

ENERGY
Security of supplies, climate change, energy efficiency and resource scarcity are top priorities on the global agenda. The key challenge is to plan and implement a sustainable and affordable energy system that is capable of meeting the growing demand for energy.

As a consultancy, Ramboll is at the forefront of addressing these issues with world-leading competencies in offshore wind, waste-to-energy, thermal power and district energy.

Read more at: www.ramboll.com/energy

MANAGEMENT CONSULTING
National, regional and local authorities are responsible for issues that affect us all; from health care, education and day care to strategic planning of infrastructure and climate initiatives.

Drawing on 500 management experts, Ramboll acts as a trusted partner to public administrations, creating the insights needed to make informed strategic decisions that promote stronger societies.

With unprecedented levels of competition in the global economy, Ramboll focuses on empowering private sector customers with expertise and powerful management tools.

Read more at: www.ramboll.com/management-consulting
Ramboll is among the top 3 buildings designers in Europe (source: ENR).

We have worked extensively in Northern Europe and have unrivaled expertise in designing liveable cities.

We have won numerous awards for design innovation and excellence. We challenge assumptions in the interest of creating more practical, sustainable and economic designs.

We are leaders in Building Information Modeling, where we build the prototype in 3D and use this to coordinate and optimise geometry, quantities, construction sequence and time schedules. We train our specialists to accommodate the strict government regulations that apply in our home markets.

We hold the industry’s top certifications within sustainable design, incl. DGNB, LEED and BREEAM. We have been designing energy efficient buildings for decades, and today, our buildings are meeting the strictest demands than anywhere else in the world.

We design more than 10 million square meters of buildings every year, equating to approx. 10,000 separate buildings projects of varying size.
**OUR APPROACH**

**WE VIEW DESIGN AS A TOOL FOR VALUE CREATION - TO INCREASE POSITIVE EXPERIENCES FOR THE USERS AND ULTIMATELY IMPROVE THE WAY WE LIVE**

**The Power of Design**
We are engineers, scientists and consultants who believe in the power of design to create a better future. At its best, good design can regenerate communities, protect natural environments, and connect people across vast distances; it can provide new energy solutions and create buildings that people are happy to be in. Good design is also robust and long-lasting.

Our design philosophy is to always make room for the human experience. Ultimately, we measure our success by how well people and communities are served by what we have done.

We share this design approach with the world’s leading architects and developers – with whom we regularly collaborate, often as a preferred partner.

**KREOD PAVILION**
For the KREOD pavilion, we developed a new overall geometric concept that was optimised for digital fabrication and simple connections. (Images right)

**Our Customers**
In Buildings, we use the term ‘customer partnerships’ to describe the long-term repeat-customers that constitutes more than 85% of our work.

Our goal is to always create customer partnerships. We do this by prioritising relationship building from the outset of every project: through close dialogue, we develop a profound understanding of our customers, the way they work, their vision, and their preferences.

Buildings’ customers want innovative yet proven design solutions, and we strive to put the best of ourselves into every single project. This requires specialised competencies and unique skill sets. We foster these through personal development and by facilitating multiple strong professional environments with 250-300 engineers sitting together under one roof. By close collaboration and knowledge sharing across disciplines, we develop a multidisciplinary, holistic outlook.

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CHICAGO LAKESIDE

The Chicago Lakeside master plan takes urban development to a new level of sustainability. The plan has been awarded two Sustainia awards in 2012. Visualisation: Skidmore, Owings & Merrill LLP/MIR.
Technical Excellence
We want to ensure that we deliver the best solution for any project. We constantly develop and perfect our design tools, construction methods and building components - and we use continuous training, systematic knowledge sharing, and regular project critiques as key enablers to ensure technical excellence.

Creative Installations
Aside from the major projects we work on, we enjoy working on smaller projects like pavilions and art objects. We use these projects to challenge the traditional boundaries and test out new technologies. Apart from having fun, we learn things from designing creative installations that we can apply to real building projects.
HOW WE WORK

PROJECT MANAGEMENT

We use the same approach to project management across the Ramboll group. Based on internationally recognised standards and best practice from Ramboll’s most experienced project managers, the approach comprises a stage-gate model and tools that are scalable and generic to all projects.

Ramboll Project Management also provides a clear and structured road map throughout the project cycle. This way, customers benefit from consistent project delivery excellence, innovative solutions, and access to the very best specialist expertise.

WE WORK AS INDEPENDENT CONSULTANTS IN AN OPEN, TRANSPARENT MANNER WITH OUR PROJECT STAKEHOLDERS

We take a fully integrated multidisciplinary approach to our work. Specialised teams are assembled from across the entire Ramboll group on a project-by-project basis, with regular staff rotation between Country Business Units to ensure that the appropriate expertise is employed on each individual project.

As part of our approach, we exercise best practices within project management. We communicate technical information clearly, both within our own teams and to customers and stakeholders, in order to facilitate effective decision making.

We have a genuine passion for engineering, and we apply the same rigour and enthusiasm to the design of an industrial production facility as we do to a single façade connection detail.

CONSTRUCTION SITE, DUBAI
(Image top)

TATE MODERN, LONDON
The transformation of the Southwark area in London into a cultural hub was instigated by Tate Modern transforming a former power station into a national gallery of international art. (Image below)
Copyright: Daniel Shearing.
HARPA CONCERT HALL, REYKJAVIK
Harpa was named the best building of the year 2011 by the leading Swedish magazine for Nordic architecture and design, FORM. In 2013, it won Europe’s most prestigious architectural award, the Mies van der Rohe award. The spectacular shape of the building was made possible because engineering and architectural disciplines were designed in a 3D model – the world’s largest at that time. The model resulted in saved time and money, fewer misunderstandings and the freedom to design a unique landmark, which has now become Iceland’s new attraction. Ramboll was responsible for all engineering design. (Image below)

KAROLINSKA HOSPITAL, STOCKHOLM
New Karolinska Solna is one of the world’s biggest and most ambitious hospital projects. When completed in 2016-2017, it will offer highly qualified specialist care and a world-class research environment. Ramboll has been involved from an early stage and has the design responsibility for more than 75% of the project’s building structures. By using a BIM-suitable format for submittal of designs and monthly multidisciplinary model reviews, we have ensured thorough clash detection and design integration, which adds significant value to the completion of the hospital in an incredibly fasttrack programme. (Image right below)

AWARDS WON
GCC Engineer of the Year 2012, GCC Construction Week Awards 2012: Andrew Darlington, BIM Manager for the Doha Marina Mall, Qatar project.
Sustainable GCC Project of the Year 2012, MEP Middle East Awards 2012: for The Change Initiative, Dubai project.
The Concrete Structure of the Year 2012, Concrete Association of Finland: 1st prize for Seinäjoki Public Library
2012 BREEAM Award, Education Project of the Year: Ashmount Primary School and Bowlers Nursery, Crouch Hill Park
European Award for Steel Bridges, 2012: Akrobaten (footbridge at Oslo Central Station).
WORLD CLASS PROJECTS

TATE MODERN, LONDON
As part of a wider initiative known as The Tate Modern Project, Ramboll is working with architect Herzog & de Meuron on an extraordinary new building, currently known as Tate Modern II. The project includes the redevelopment of part of the switch house and close integration, both visually and physically, with the main building. The new building will increase Tate Modern’s display space by 60% to accommodate the increasing number of visitors. Working closely with the architect, Ramboll developed the engineering design to accommodate both the particular specifications of the structure as well as realise the architect’s visions. (Image top) Copyright: Daniel Shearing.

NATIONAL MUSEUM, OSLO
The size, location and combined functionality of this new landmark will create a unique arena for Norway’s most extensive collections of art and will be one of the largest cultural buildings in Oslo. Through design and building information modelling (BIM), Ramboll is seeking to reduce construction costs for Statsbygg, maximise use of the space for tenants, as well as considerably reduce the building and operating costs. (Image below) Copyright: Kleihues+Schuwerk Architect & Statsbygg

PULKOVO AIRPORT, ST. PETERSBURG
Ranked as Russia’s fourth largest airport, Pulkovo Airport has been close to reaching maximum passenger capacity for years. In 2008, the City of St. Petersburg announced an international tender for a 30-year concession to develop and operate Pulkovo Airport. The project represents one of the most ambitious aviation projects currently underway in Europe, and it demonstrates Ramboll’s capabilities in the aviation sector. (Image right) Copyright: Grimshaw
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