

DGMR. More than just
a solution.

Right from its inception in 1980 DGMR has endeavoured to be more, and to offer more, than the average consulting engineer. We achieve this through the emphatic choice for a unique approach that goes beyond the problem itself.

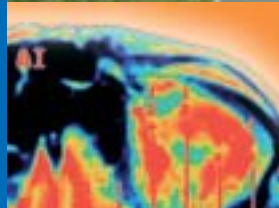
The difference between solving and improving

This approach finds expression in, among other things, the type of solutions we envisage. If a technical design or process needs improvement, we do not simply come up with stand-alone, isolated proposals only for that one problem. We focus instead on a solution which will allow the overall design or process to function better. Equally characteristic of our approach is the logical exchange of knowledge between the various disciplines we exercise in-house. In this way, all the available knowledge can be used to the optimum, and creative cross-pollination can occur freely. It is for this reason that we at DGMR have opted consciously for a level, informal and thus open and flexible organisation.

From Drachten to Maastricht

DGMR is a totally independent enterprise, with all its shares owned by (sector) management members. We have offices in Arnhem, The Hague, Drachten and Maastricht, with a total of more than 100 employees equipped with varying subject-specific technical backgrounds on which our clients can draw. Advice is always clear, viable and financially attainable. A proposal which is more than just a solution.

DGMR. More than just
advice.





The creation of a pleasant and healthy living and working environment. This is the ultimate goal of our building physics specialists. Our Building Physics sector operates out of Arnhem, Den Haag, Drachten and Maastricht. For more information please feel free to contact one of these offices.

building physics

Acoustics
Building physics
CFD simulation
Sustainability
Energy

Environmental physics
Vibration technology



Maximum safety through limiting risks. This is the endeavour of our fire safety specialists. The Fire Safety division is located in Arnhem, Den Haag, Drachten and Maastricht. For more information please feel free to contact one of these offices.

fire safety

Loss prevention
Life safety
Smoke control
External fire spread
Structural fire safety

Fire investigation
Industrial fire safety



The façade has many functions, which determine the quality of living and working. Our Façade Technology section is familiar with them all. This division is based in Arnhem. For more information please feel free to contact this office.

façade technology

Engineering
Damage assessment

Glass
Stone
Aluminium
Brick
Concrete



A healthy relationship between industry, its environment and the authorities. Our Industry and Environment sector has made this its speciality. You will find this division in Arnhem, Den Haag, Drachten and Maastricht. For more information please feel free to contact one of these offices.

industry and environment

Work place improvement
External safety
Noise control
Air quality
Environmental policy

Process control
Product development
Vibration technology
Permit application



The reduction of traffic nuisance and the improvement of the living and working environment. These are the most important aims of our Traffic and Environment sector. This division works out of Arnhem, Den Haag, Drachten and Maastricht. For more information please feel free to contact one of these offices.

traffic and environment

Policy
External safety
Noise barriers
Air quality
Aircraft and shipping noise

Low noise road surfaces
and railways
Vibration technology
Road and railway
traffic noise



Our user-friendly software is being deployed by an increasing number of organisations. The software is developed in-house for numerous applications, both in standard as well as custom-made versions. The software group is based in Den Haag. For more information please feel free to contact this office.

software

Data research
Geographic information
systems
Internet/websites

Prediction models

Healthy and pleasant living. Safe and pleasurable living. Every possible attention is paid to this in building physics by giving form and direction to the factors which influence the living and working environment, such as light, air, noise, temperature, moisture levels and draughts. Issues such as energy, vibration and sustainability also have their place in the portfolio of the building physics specialist. In short, it is a highly comprehensive discipline for which we have made a vital place.

From one discipline to another

Our building physicists are on hand for the client through every stage of the project. From the initiative and the pre-design right through to realisation and occupation. The problem-transgressing approach which is such a notable characteristic of our organisation results in sound and solid advice. After all, building physics has points of convergence with many other disciplines. The exchange of knowledge within the development team, but also between various fields of expertise, is indispensable in reaching a high-quality solution.

The know-how and the means

At DGMR we have more than simply a wealth of building physics knowledge and experience - we also have the necessary technical resources to hand, such as building physics measuring equipment and advanced, self-developed software for the execution of calculations. We are also happy to take care of laboratory research and wind tunnel tests. In this way, we come up with the best conceivable living environment, the most perfect acoustics and an optimal and energy-efficient construction. All conceivable options are considered in this process, so that not a single possibility is overlooked. This is building physics as practised by DGMR.

DGMR. More than just
building physics.






After white and green energy, now there is also transparent energy.

A low-angle photograph of a Gothic cathedral facade, showing the intricate stonework and large arched windows. A red sign with the word "FULL" in white capital letters is superimposed on the lower part of the image, positioned between two smaller Gothic arches. The sky is a clear blue with some light clouds.

Fire safety is not about belief, but about certainty.

FULL



There are few areas where an integrated, all-embracing approach is as important as in fire safety. Not only because multiple factors are in play here, but also and primarily because when it comes to an emergency, human lives are at stake. More so than in any other specialisation, no detail may thus be overlooked.

At home throughout the entire process

Certainty. For DGMR this is the uncompromising point of departure in achieving a fire-safe building or complex. Thus it is that we advise the client in each and every phase of the building process on all conceivable issues related to fire safety. In close consultation with the parties involved such as the client, fire department and insurer we strive towards optimal safety at an affordable price. To this end, we regard the relevant legal provisions merely as a start. We advise on loss prevention and life safety on the basis of fundamental knowledge of fire. Should the project not meet the provisions, we then, if possible, adapt advanced methods in order to achieve an equivalent level of safety.

From risk to safety

At DGMR we also proffer advice on the fire behaviour of materials and fire-resistant constructions. To this end, a great deal of knowledge exchange takes place with other disciplines within our organisation, in particular when it comes to building physics and façade technology. In addition to this, we have developed special software for issues such as external fire spread. In this way we have even more solutions to go a step further. We want to offer safety to everyone in the building, exclude risks, and we will only be satisfied when we are certain.

DGMR. More than just
fire safety.

Design and function! When it comes to façade technology, these are the two sides of the picture, since the architecture of the façade bears overriding importance for the building itself, while the technical design, the construction and materials applied, largely determine the use and maintenance requirements. How do you produce a façade which is not only aesthetically pleasing, but also allows transparency, gives shading from the sun, wind- and waterproof, burglary resistant, strong, sound-proof, low-maintenance and economic?

Advice for new and old

At DGMR we are highly experienced in the field of façade technology: knowledge enabling us to offer integrated solutions for all the abovementioned aspects. Know-how which is accessed with great regularity by clients both within the Netherlands and abroad; both for new building projects, and for the resolution of problems with existing façades. Thus it is that, for existing façades, we carry out investigation into the technical condition or cause of any damage ascertained, on the basis of which we then provide advice for preventive maintenance and repair.

In search of the best approach

For testing façades DGMR has access to specially developed equipment covering, among others, the onsite testing of air permeability and watertightness. Intensive exchange of knowledge with our Building Physics and Fire Safety divisions among others helps to offer first-class advice and the best conceivable approach to each and every façade problem. Therefore let your façade be our headache.

DGMR. More than just
façade technology.





For a façade without headaches.

A man in a blue and white cycling jersey and black shorts is riding a road bike through a lush green field of daisies. In the background, a large industrial refinery or chemical plant is visible, featuring several tall smokestacks and large storage tanks. A body of water is situated between the cyclist and the industrial facility. The sky is clear and blue.

When production is limited, we produce a solution.



The relationship between industry on the one hand and the environment and authorities on the other is not always friendly. In particular, the stricter requirements relating to noise emissions and expanding built-up areas have led to the requirements for industrial plants and buildings becoming increasingly strict. Safety aspects such as fire and explosion hazards, and issues such as air quality, have also made the permit procedures more complex.

We show the way

Thanks to DGMR no-one has to struggle through the jungle of policy measures, laws and increasing jurisprudence. DGMR has operated for two decades as a consultant for industry and authorities, and is right up to date with developments. It's no wonder that we are involved in many industrial activities, and are called in for research, evaluation and advice on the broadest scale.

From research to policy

Our specialists are involved in carrying out noise research within the framework of the laws on environmental protection, noise reduction and health and safety at work, among other activities. We are also involved in product development and research into the improvement of processes. In addition to this, technical, organisational and policy support is offered to authorities. But we do more and, in particular, we have more to offer! We offer advice which leads to a better entrepreneurial climate and government policy, with a minimum damage to both mankind and the environment.

DGMR. More than just
industry and environment.

The modern citizen is constantly on the move: by road, by rail, on the water or through the air. Unfortunately, the nuisance caused by this constant travelling is just as constant. Annoyance caused by continual noise and vibration pollution, the production of exhaust gases and external safety risks. But how do we limit the nuisance and the risks? At DGMR we are involved daily in answering this question.

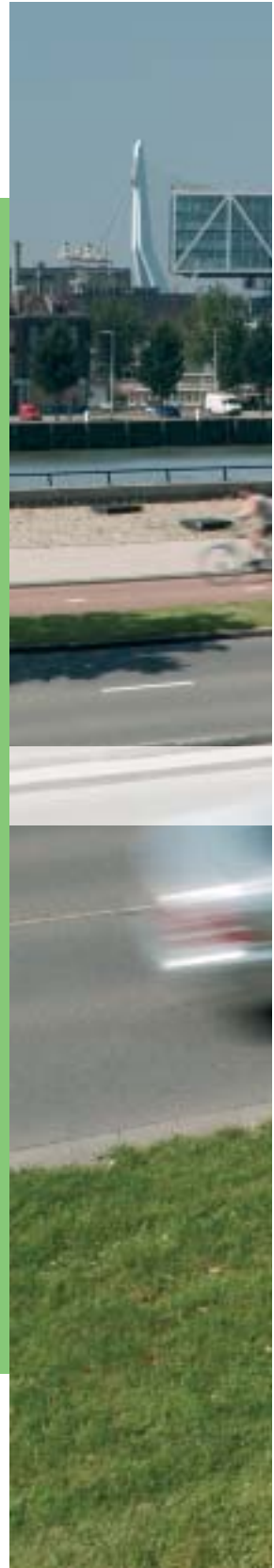
First research, then advise

Acoustic research and research into air and safety are part of the core activities of our traffic specialists; research carried out in terms of the execution and construction of new infrastructure but also in the building of new homes and other projects. Advice is then issued about the possibilities for limiting any nuisance. At DGMR we are constantly seeking out the right balance between costs and results. Urban development, natural landscape and safety factors play a role in this.

More knowledge, less annoyance

One of the ways to restrict noise pollution to acceptable levels is the application of low noise road surfaces. We also have extensive knowledge in this field. In collaboration with others, we have developed innovative road surfaces which achieve substantial noise reduction. We also have access to a special measuring trailer, developed for carrying out readings on all types of road. We have produced calculation models for noise barriers for complex designs, so that the barriers can be introduced into the environment in an aesthetic way. In this way, DGMR demonstrates once again that more can be done. More pleasant living and working, with less annoyance.

DGMR. More than just
traffic and environment.





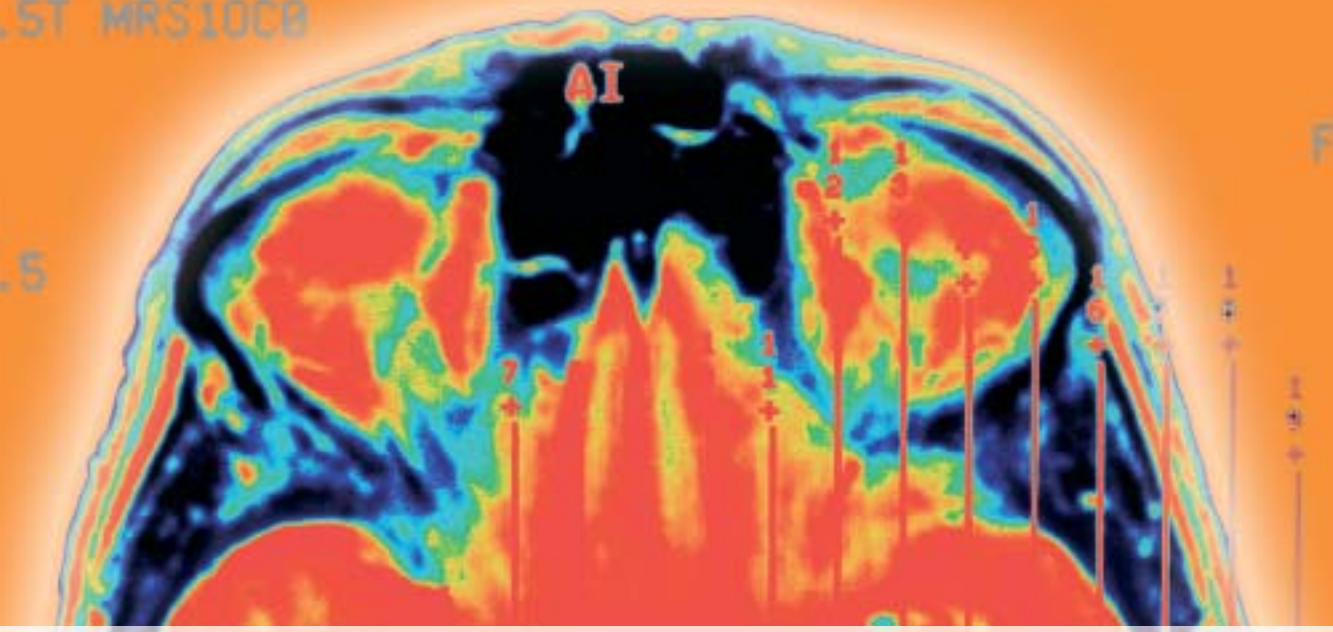
In noise control, it's about more than just what you hear.



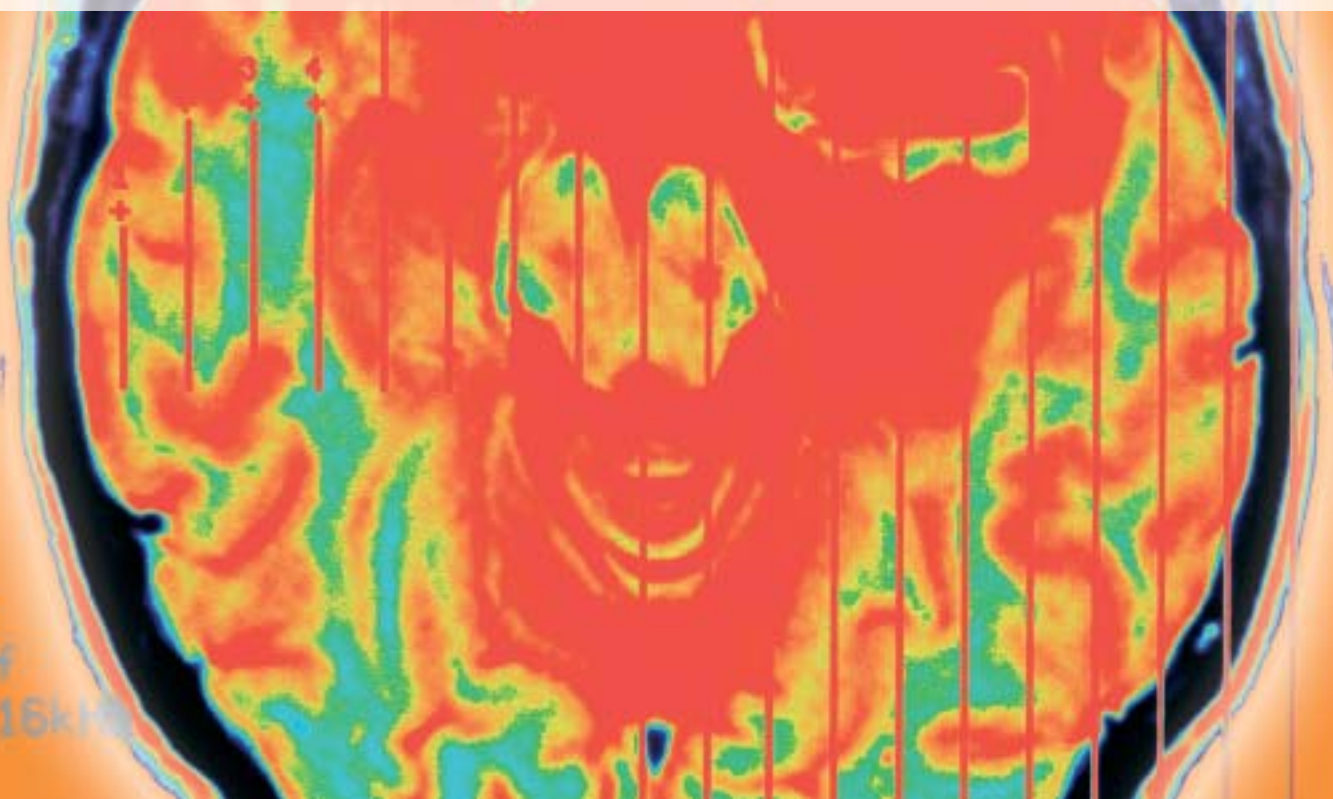
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You get more insights from our software, because we put more in.



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At DGMR we are not afraid of sharing our knowledge and experience with others. The development and provision of software covering a variety of knowledge fields is in fact one of our core activities. In this respect we have built up an excellent reputation both nationally and internationally.

A solution for every discipline

Many consulting engineers, municipalities, central governments, provinces, architects, environmental services and companies make use of our software developed in-house. This software is based on broad expertise, incorporating know-how in the field of road and railway traffic noise, policy, sustainability, fire safety, industrial noise and energy performance among others; in short, all the fields of knowledge which we include in our specialisations here at DGMR. Our software engineers, in close collaboration with the relevant specialists, see the entire process through: from analysis, design and execution right through to delivery and support. The latter includes the maintenance and continual manning of a help desk.

From standard solutions to the tailor-made

Our software group provides both standard software and customised products: both ready-to-use products, adapted on request if necessary, and also special tailor-made solutions for all conceivable situations and applications, from the environmental burdens of a building right through to zoning plans for a highly-populated area. Because also when it comes to our software, DGMR offers more than just a solution.

DGMR. More than just
software.

DGMR. More than just a solution.

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Consultants for construction, industry, traffic, environment and software

member
ONRI
info@dgmr.nl
www.dgmr.nl

Brugstraat 16, P.O.Box 153
NL-6800 AD Arnhem
The Netherlands
T +31 26 351 21 41
F +31 26 443 58 36

Eisenhowerlaan 112, P.O.Box 82223
NL-2508 EE Den Haag
The Netherlands
T +31 70 350 39 99
F +31 70 358 47 52

Lavendelheide 11
NL-9202 PD Drachten
The Netherlands
T +31 512 52 23 24
F +31 512 52 25 19

Prof. P. Willemsstraat 21-23
NL-6224 CC Maastricht
The Netherlands
T +31 43 362 36 54
F +31 43 352 00 20

