

Perforation without limits



RMIG

2



www.rmig.com

INDEX

RMIG

RMIG is the world's largest manufacturer and supplier of perforated metal with manufacturing units and sales offices in thirteen European countries. The company offers the entire product palette, ranging from intricate fine hole perforation for filtration purposes – perforation for everyday use – through large decorative works for prestige buildings – to heavy industrial construction jobs for power stations and the like.

Perforation without limits

www.rmig.com

Austria RMIG Lochbleche GmbH • info.at@rmig.com

Belgium RMIG nv/sa • info.be@rmig.com

Denmark RMIG A/S • info.dk@rmig.com

France RMIG • info.fr@rmig.com

Germany RMIG GmbH • info.de@rmig.com

Germany RMIG Nold GmbH • info.nold@rmig.com

Italy RMIG S.p.A. • info.it@rmig.com

The Netherlands RMIG bv • info.nl@rmig.com

Norway RMIG AS • info.no@rmig.com

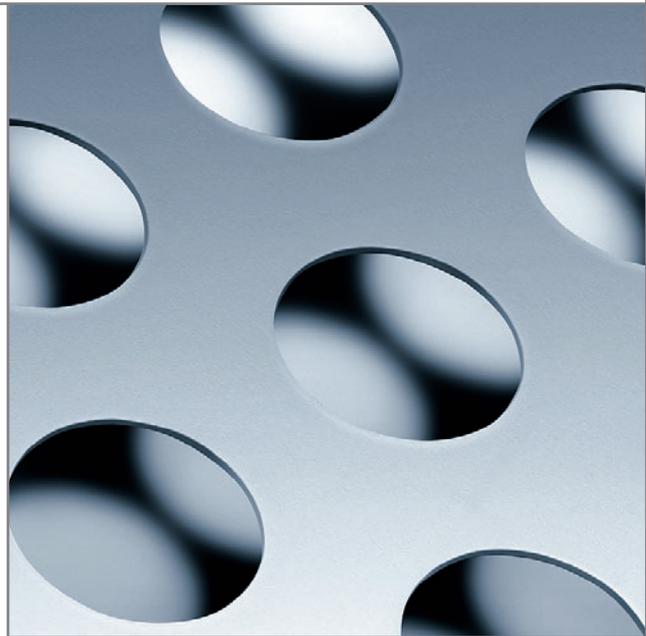
Poland RMIG Sp. z o.o. • info.pl@rmig.com

Spain RMIG • info.es@rmig.com

Sweden RMIG Sweden AB • info.se@rmig.com

Switzerland RMIG AG • info.ch@rmig.com

United Kingdom RMIG Ltd. • info.uk@rmig.com



3

RMIG	page 4-5
Agriculture	page 6-7
Audio	page 8-9
Automotive & Transport	page 10-11
Buildings	page 12-15
Design	page 16-17
Electronics	page 18-19
Processing	page 20-21
Shop Decoration	page 22-23
White Goods	page 24-25
Various	page 26-28
Application List	page 29
References	page 30-31



RMIG

4

Torben D. Svanholm,
CEO RMIG



Dear Customer

Welcome to RMIG. This catalogue aims to provide you with inspiration for the use of perforated metal in a wide variety of applications. As you will see, the possibilities are virtually limitless and we are sure that you will find examples of products that are relevant to you and your business. Naturally, we can include but a part of our range, so please contact us if you would like to see more...

RMIG is the largest perforation company in the world and has over a century's experience in the perforation industry. The experience we have gained in the various application areas where our products are used, allows us to serve as a knowledgeable partner to you, finding the right solution to your needs.



Richard Müller

1925

Rich. Müller A/S

1960

1901



Ernst Müller

1936

**Move
to Ballerup**



Dealing with RMIG, a company of our size, offers a number of advantages that benefit you as a customer directly. But most of all, it is our local presence in the various European markets which means there always is a contact person close to you readily available to answer any question you might have.

With the power of the group's multiple manufacturing sites, your contact person can draw on an enormous reservoir of experience both in manufacturing and in application knowledge, including our own Research & Development department.

As a group, we are committed to providing you with a quality product and an excellent service. That is why our goal is to show you that RMIG is the best choice for your perforation requirements, every time. Therefore, we would like to invite you to contact one of our sales representatives to discuss your needs.

We look forward to our cooperation.

Sincerely,



Torben D. Svanholm
CEO RMIG



1987



Acquisition by Rich.
Müller foundation.

2001

1981



1996



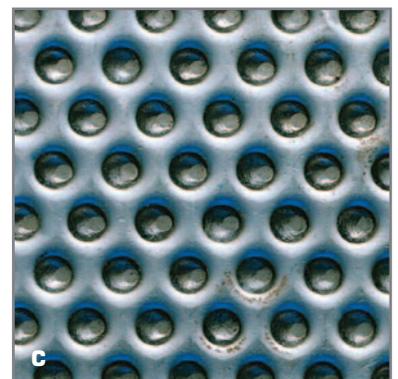
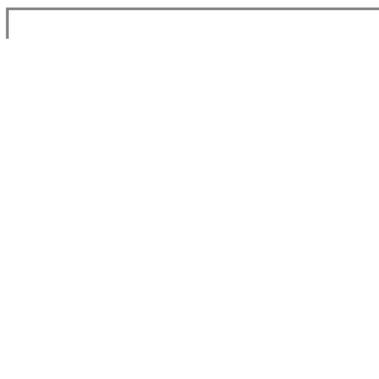
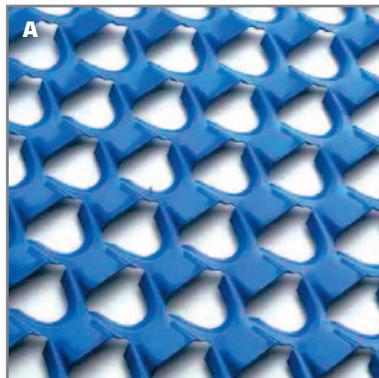
2004



RM timeline

Agriculture

In the agricultural industry, needs for perforated material range from grain sorting and drying, through sieves for special applications to parts for agricultural machinery. Based on their vast experience, our specialists can advise you about the particular perforation pattern that will give you the best result – no matter the job you need to do.





D



E

7

More and more, perforated metal becomes the material of choice for the modern high-end audio systems.

8



Audio



Audio

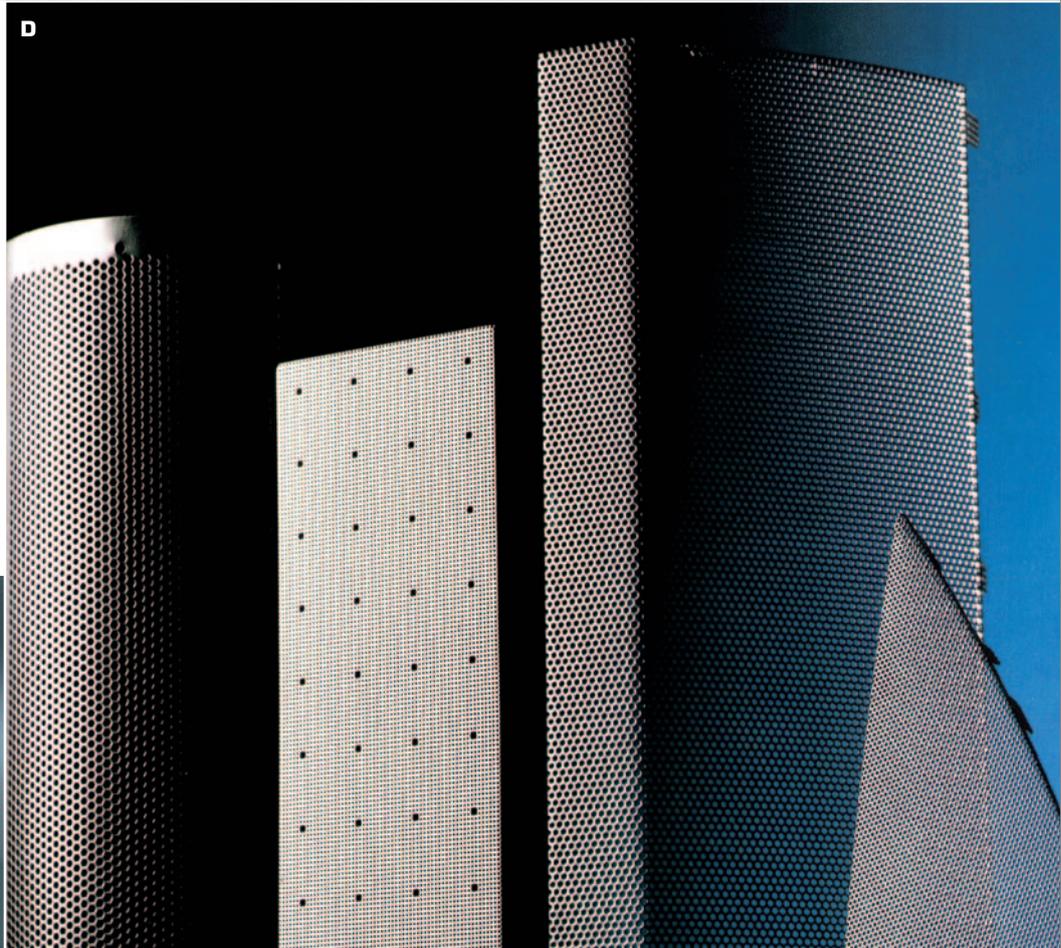


E

9



C



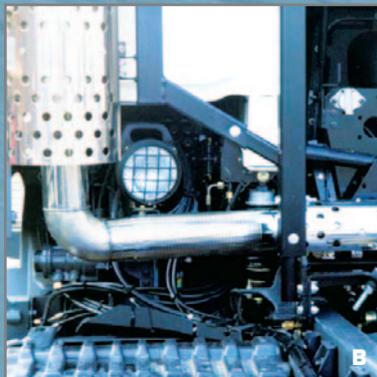
D



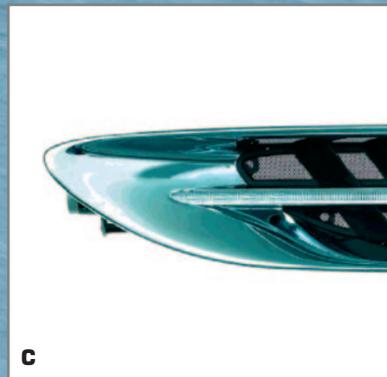
A high-quality look and feel, flexibility in terms of colours and the visual effect achieved by choosing just the right perforation pattern are what convince many customers. We can help you achieve maximum sound transparency whilst creating your own look.



A



B



C

Automotive & Transport

Stringent demands in the automotive industry require expertise, strict quality control and complete adherence to the specifications set by the Original Equipment Manufacturers. RMIG is well placed to serve these customers in this demanding industry.

Our products are used in applications ranging from airbags, exhaust and ventilation systems to facia grilles. They protect both people and the parts behind the perforated material from heat and damage.

11



Automotive manufacturers strive to keep the weight of a car to an absolute minimum to achieve maximum fuel efficiency; perforated metal is the ideal choice in this everlasting search.

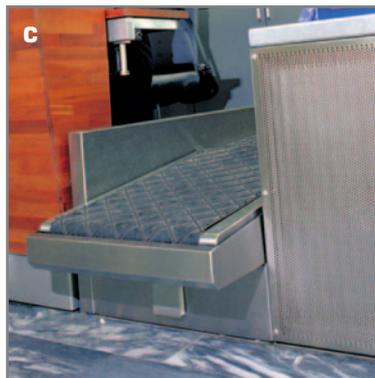
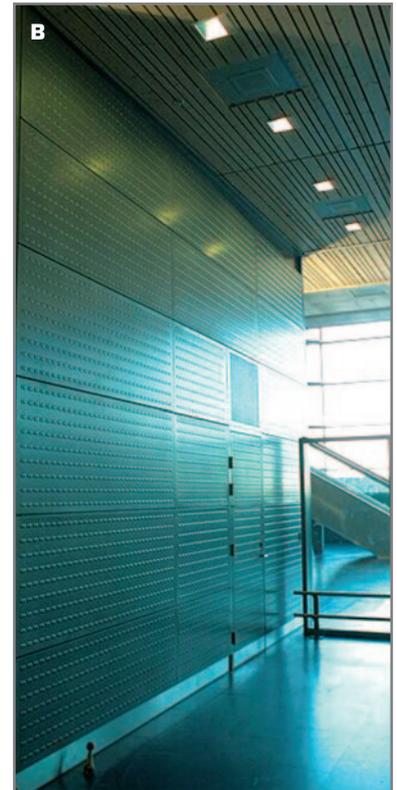
Buildings

12

Not only should a building be comfortable and pleasant to work in, but it should also convey the right image for the company that owns or rents it. Architects have turned to perforated metal to achieve this end. Balustrades, false ceilings and the use of perforated screens for decoration are just some of the examples of use.

The characteristics of perforated metal can help you create just the right setting for the room or the lobby. It allows you to determine the desired amount of light coming into a room, creates separate working spaces without giving a closed-in feeling and, using the right open area, has sound-absorbing qualities.

Naturally, behind the scenes, the use is extensive as well. Air conditioning and heating systems, gates, barriers and screening help you to make the building a safe and pleasant working space.

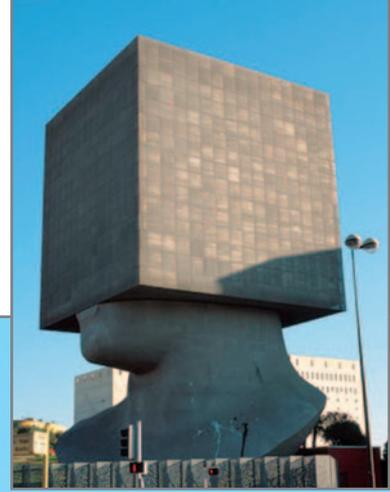


www.rmig.com



E

There are also many possibilities on the exterior for the use of perforated metal, in both a decorative and a functional capacity.



14



Buildings



Buildings



Perforation can help measure the amount of sunlight streaming into a building. It provides visibility outwards, whilst limiting the ability for people to look in. Most of all, it protects the areas of the building where appropriate.

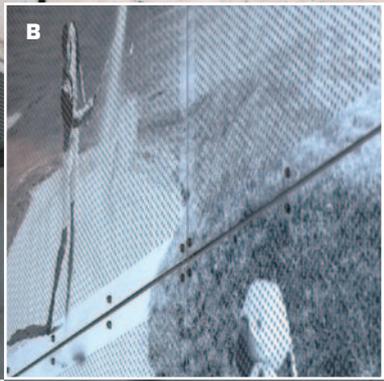


16

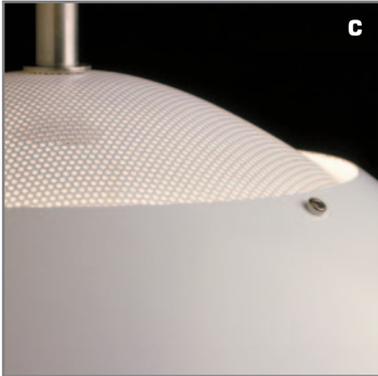
Perronafsnit
E

Spor 2
14.17
Roskilde

Copenhagen Airport
Kastrup



Design



In the area of design, imagination is truly the limit of what we can achieve. Using advanced computer systems, we can create for you practically any pattern you would like to see: your company logo, a picture, or some functional design. We give shape to your imagination.



Moreover, using our capabilities in bending, cutting and painting, we can produce a complete solution for you. A chair, a bench, a lamp: using perforation in the design increases the aesthetic element of your product.



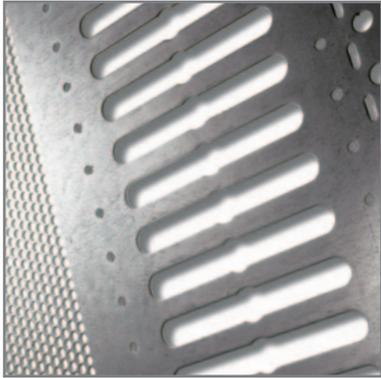
A



00.05
00.06
00.07
00.08
00.09
00.10
00.11
00.12
00.13
00.14
00.15
00.16
00.18
00.19
00.20
00.21
00.22
00.23



Electronics



Using perforated material in the electronic industry is all about protection, aesthetics and functionality. Protecting sensitive electronic elements from damage, protecting people from electricity and heat. It needs to look good, to blend in with the office environment. Adding that the components need as large an open area as possible to ensure maximum ventilation, it is clear that perforated material is the ideal product.



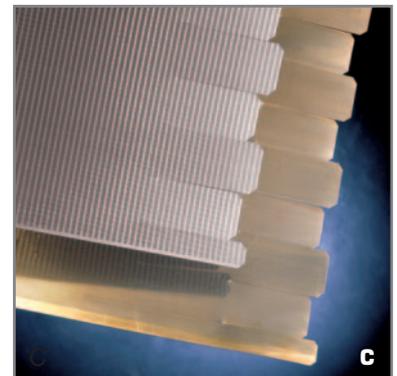
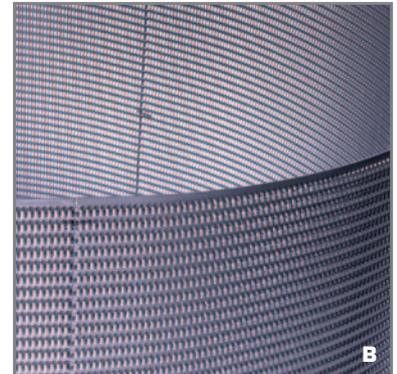
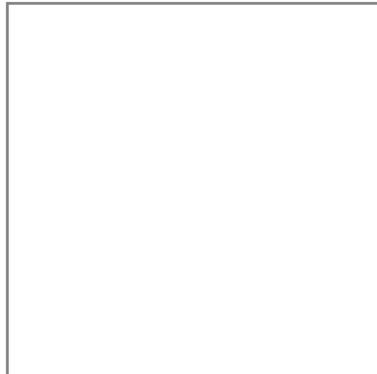
C



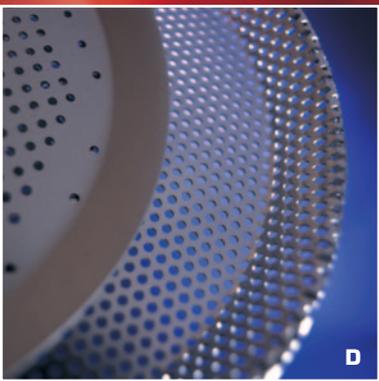
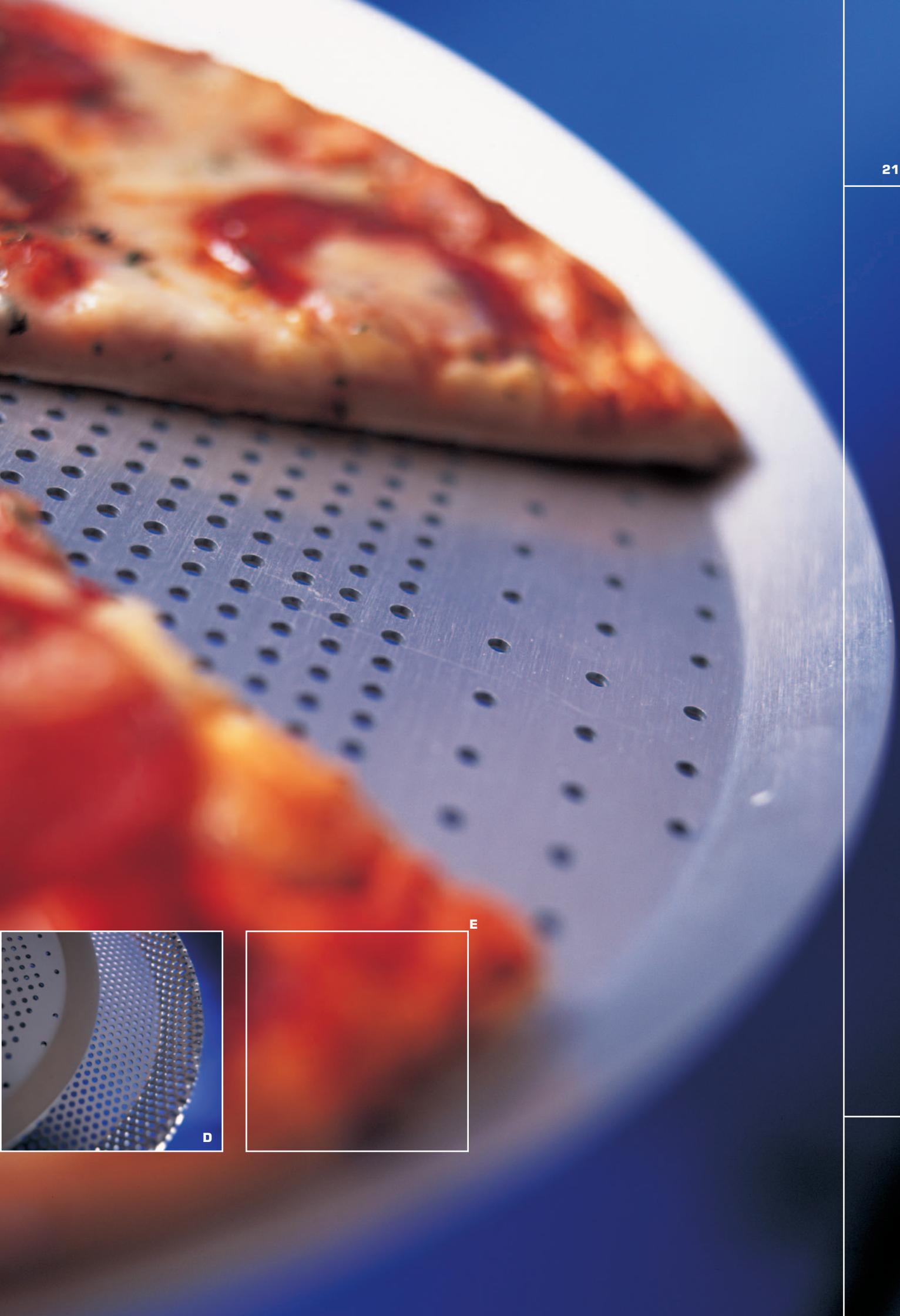
www.rmig.com

Processing

Ranging from small, high-precision perforation in thin material to large holes in thick sheets used in the mining industry: we have the knowledge, the tooling and the material to serve you as a customer.



Processing is probably the sector where the applications are most widespread. RMIG can call upon experience in the chemical, pharmaceutical, mining and offshore industries, to name but a few.



D



E

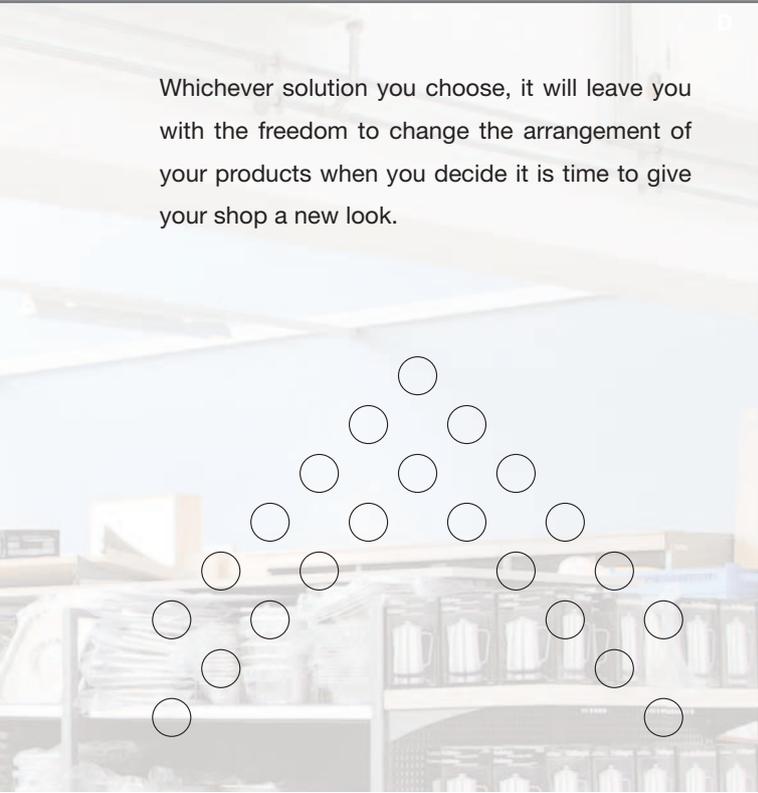
In today's shops and department stores, it is all about space: how do I display my products as attractively as possible, using the least amount of space?



Our products will help you do just that. Depending on your specifications, we manufacture shelving with different dimensions, various hole sizes and shapes, cut, bent and painted just the way you want it.

Shop Decoration

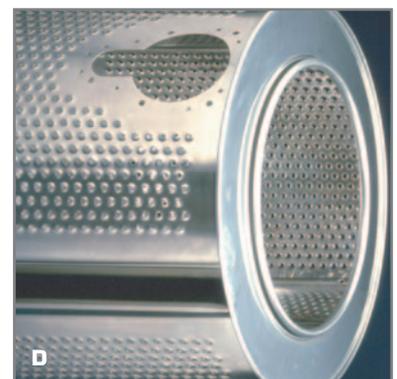
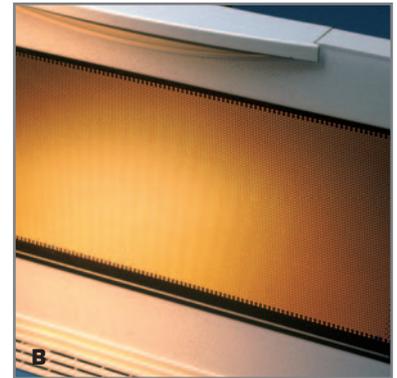
Whichever solution you choose, it will leave you with the freedom to change the arrangement of your products when you decide it is time to give your shop a new look.



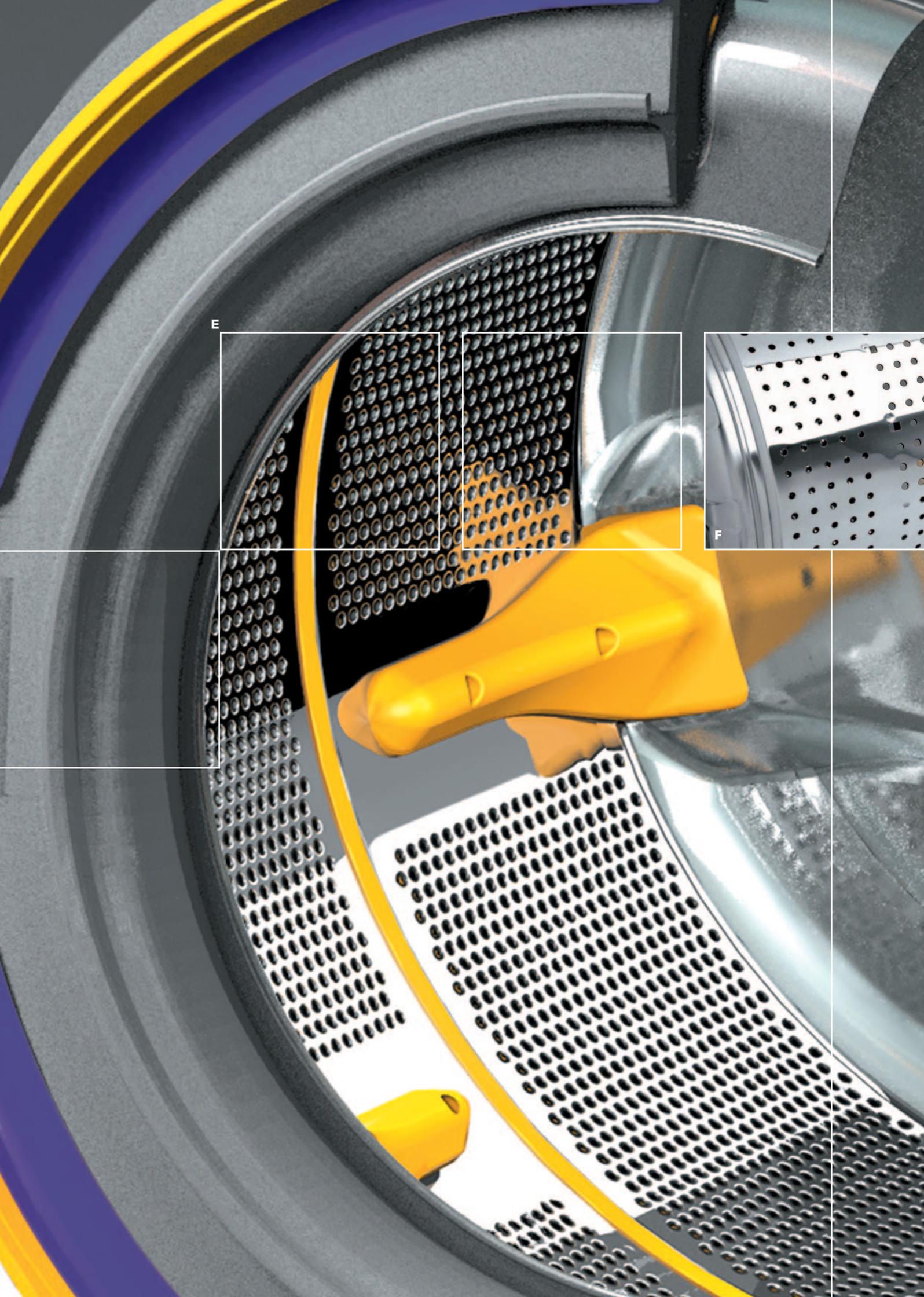
White Goods

Each type of application in the white goods industry has its own unique requirements. For several leading European laundry machine producers, we manufacture drums that let their customers enjoy the results of a clean wash, every time. The use of perforated metal in dishwashers ensures a thorough filtration process, without the dirt sticking to the sharp edges in the filters.

24



Our fine-hole perforated screens in microwave oven doors shield consumers from the harmful effects of radiation. No matter what the application, we know what you need.



E

F

Various

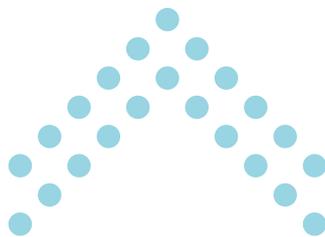
In the various industrial sectors we have shown you some applications of our products. Naturally, this is but a small selection of the solutions that are available using perforated metal.

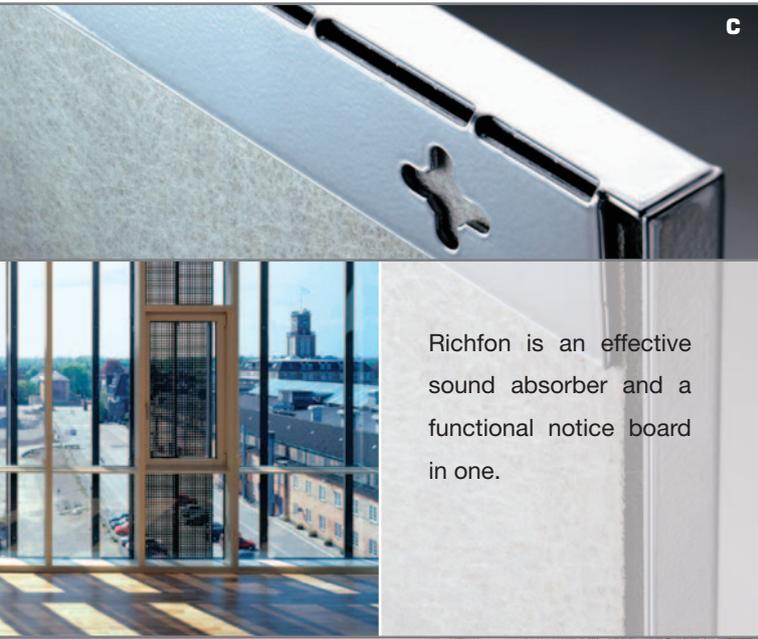
On these pages, we want to show you some possibilities that you, as our customer, have. Shielding people inside the building from the sharp light of the sun increases the comfort of your employees. We can assist your architect or designer with our experience about the particular effect reached with the various perforations.



Within the construction and design area, there are virtually no limits to the bounds of possibilities. When bending and cutting the material, innovative solutions are found that satisfy the eye and the body, combining functionality and beauty.

But the use of perforated metal goes much further. Responding to customers' wishes, RMIG developed in cooperation with Rockwool – a well-known insulation company – a product called Richfon. This product provides you with a high-quality, effective sound absorption system that will reduce the noise level in open area offices, institutions and other rooms where many people are together.





C

Richfon is an effective sound absorber and a functional notice board in one.



D



E



H



F

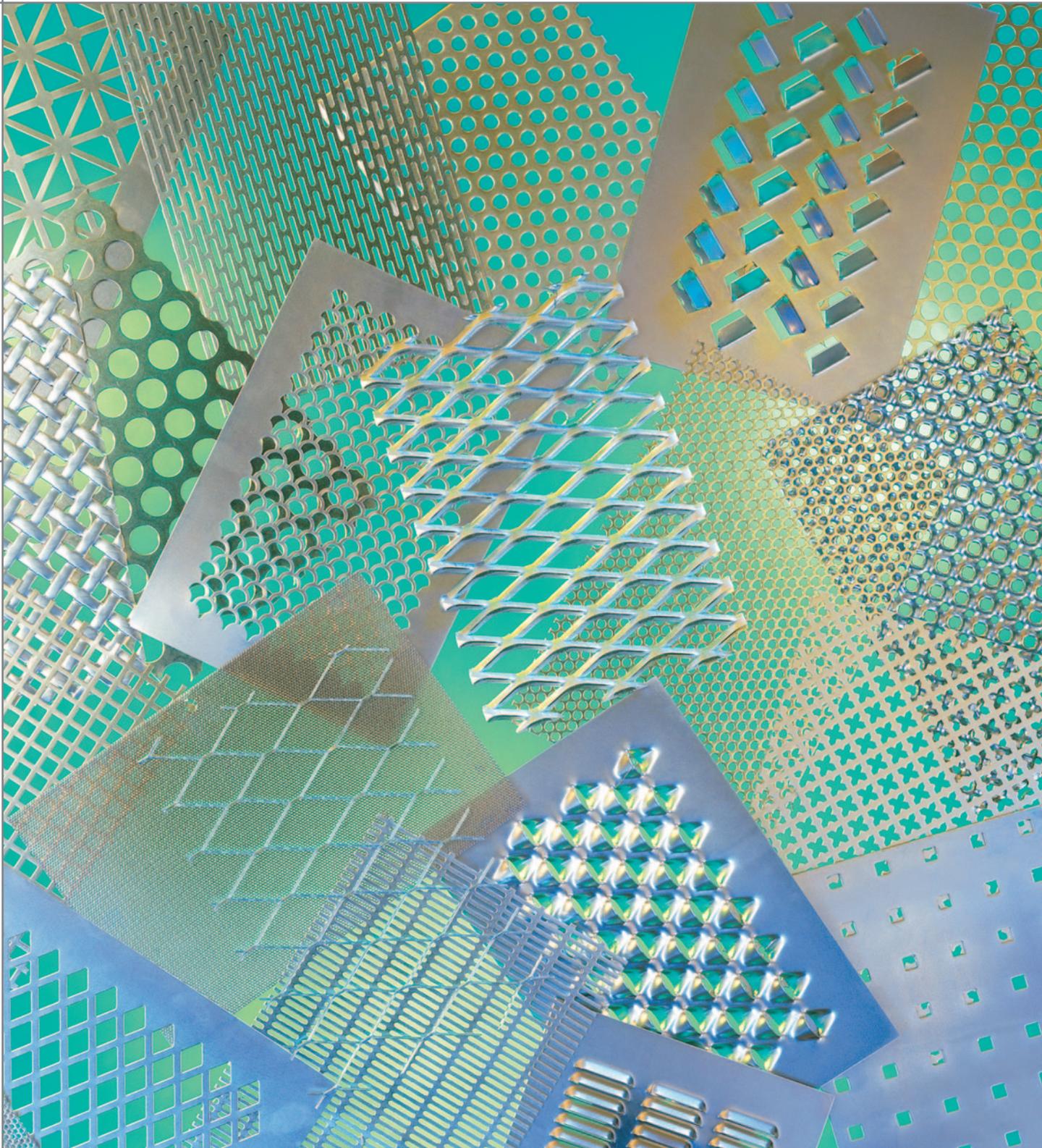
G

Come and discuss your needs with us!
We are sure that we will be able to find
a solution that meets your needs.

Various

RMIG has a central stock with app. 1000 references available for immediate delivery throughout Europe. Furthermore, each company carries a local stock that is tailored to the local market requirements with many additional products.

28



This is only a small part of what RMIG can offer. We have more than 30.000 different perforation patterns ready for production, and if required we can manufacture specific tools to produce the exact pattern desired by you.

Application List

Agriculture

Agricultural machinery
Grain drying
Grilles for tractors
Sieves
Trieur sheets

Audio

Loudspeaker grilles
Satellite dishes
Satellite receiver boxes
Video boxes

Automotive & Transport

Aerospace
Air-bag cylinders
Exhaust systems
Lorries/Buses
Loudspeaker grilles for cars
Shipbuilding
Trains

Buildings

Acoustic panels
Air-conditioning
Balustrades
Cable trays
Cement production
Cladding
False ceilings
Facades

Gates
Heating equipment
Roll-down shutters
Ventilation

Design

Decorative
Furniture
Interior heating
Lighting
Waste-paper baskets

Electronics

Computers
Household equipment
Telecom boxes

Processing

Baking trays
Chemical industry
Energy production
Filtering
Food processing
Gas turbines
Hammer-mill sieves
Malting floors
Mining industry
Offshore industry
Paper industry
Petrochemical industry
Pharmaceutical industry

Reinforcement in plastics
Steel production industry
Waste processing

Shop Decoration

Shop displays
Workshop displays

White Goods

Cooling counters
Dish-washer filters
Kitchenware
Microwave-oven doors
Tumble dryers
Washing machines

And many more...

References

Agriculture page 6 and 7

A: Nose screen

B+D: Grain drying • RM Pattern: 720-000 / R 2,0 mm / T 3,5 mm / 30% • Material: 0,75 mm sendzimir-galvanized

C: Close up photo of a Trieur screen used for grain sorting.

E: Sheets with round and slot holes used for grain sorting.

Audio page 8 and 9

A+B: Loud speaker grilles from Bang and Olufsen • R 1,1 mm / U 1,5 mm • Material: Peraluman 708

C: Loud speaker grilles • H 2,3 mm / T 3,0 mm • Material: DC01 ZE

D: Different loudspeaker grilles for HiFi application (from left) • H 2,3 mm / T 3,0 mm / 58,7% •

R 0,8 mm / U 1,25 mm / 32,2% • H 2,3 mm / T 3,0 mm / 58,7% • R 1,2 mm / T 1,5 mm / 58,0% •

Material: DC01 ZE

E: Loud speaker grille for VW • R 1,2 mm / T 1,5 mm / 58,0% • Material: DC01 ZE

Automotive & Transport page 10 and 11

A: Noise absorbing shield, Lillestrøm station, Norway • RM Pattern: 730-000 / R 3,0 mm / T 5,0 mm / 33% •

Material: Aluminium

B: Exhaust shield for truck • R 25,0 mm / T 76,0 mm • Material: Stainless AISI 304 polished

C: Expanded metal Type SN31 • Material: Stainless steel 1.4301 • Surface treatment: powder coated

D: Ventilation for tractor engine • RM Pattern: 720-002 / R 2,0 mm / T 3,0 mm / 40,3% • Material: Sendzimir-galvanized

Buildings inside page 12 and 13

A: Shop Centre, France • RM Pattern: 820-037 / R 20,0 mm / U 40,0 mm / 19,6% • Material: Aluminium

B: Cladding, Oslo airport, Norway • RM Pattern: 588-010 / Embossed 20,0 mm x 50,0 mm • Material: Aluminium

C: Check-in desk, Oslo airport, Norway • RM Pattern: 750-002 / R 5,0 mm / T 8,0 mm / 35% • Material: Stainless

D: Ceiling, DTU Lyngby, Denmark • RM Pattern: 750-003 / R 5,0 mm / U 10,0 mm / 20% • Material: 3,0 mm aluminium

E: Cladding, deCODE building, Iceland • RM Pattern: 409-013 / C 9,5 mm / U 13,33 mm / 51% • Material: 2,0 mm alu 57S

Buildings outside page 14 and 15

A: Library Nice, France • RM Pattern: 405-012 / C 5,0 mm / U 8,0 mm / 39% • Material: Aluminium • Sculptor: Sacha Sosno

B: Sun shield, SamPension Hellerup, Denmark • RM Pattern: 812-031 / R 12,0 mm / U 24,0 mm / 19,6% •

Material: 1,5 mm copper

C: Public Building, Valence, France • RM Pattern: 820-029 / R 20,0 mm / T 27,0 mm / 46,7% •

Material: Sendzimir-galvanized steel

D: Globen Stockholm, Sweden • RM Pattern: 830-003 / R 30,0 mm / U 50,0 mm / 28,3% • Berg Arkitekterne

E: Public Building, Valence, France • RM Pattern: 820-029 / R 20,0 mm / T 27,0 mm / 46,7% •

Material: Sendzimir-galvanized steel

F: Facade, Oslo airport, Norway • RM Pattern: 810-052 / R 10,0 mm / U 20,0 mm / 19,6% • Material: 3,0 mm

G: Sun shield, Kommunedata Ballerup, Denmark • RM Pattern: 561-005 /

Lipped perforation 11,0 mm x 110,0 mm • Material: 2,0 mm Aluminium ALMG1 EQ

Design page 16 and 17

A + B: Advertisement board, Kastrup Station, Denmark • RM Pattern: 750-012 / R 5,0 mm / T 12,1 / 15,4% •

Material: 2,0 mm Stainless steel AISI 316 • Sheets with advertisement print that can be changed

C: Lighting decoration • R 2,3 mm / T 3,0 mm / 53,3% • Material: DC01 ZE

D: Bath room furniture • RM Pattern: 409-005 / C 9,0 mm / U 34,0 mm / 7% •

Material: Stainless AISI 304 – polished grain 180

E: Perforated picture - special RM pattern • Many different hole sizes • Material: Mild steel • Made from a photo

F: Chair • RM Pattern: 404-000 / C 4,0 mm / U 6,38 mm / 39% • Material: Mild steel

Electronic page 18 and 19

A: Electronic cabinet door • Elliptical perforation 10 mm x 5 mm / 12,5 mm x 8,5 mm rectangular pitch

B: Ventilation screen for electronic equipment

C: Electronic disc

Processing page 20 and 21

A: Tin for cheese

B: Backing screen centrifugal • RM Pattern: 3618-002 / SSLR 3,1 mm x 10,1 mm / Z 6,0 mm x 14,0 mm •
Material: Stainless AISI 304 (EN 1.4301)

C: Sugar centrifugal screens

RM Pattern: 1037-001 / LC 0,37 mm x 4,0 mm / U 1,17 mm x 5,65 mm / 22,4% • Material: Brass

RM Pattern: 705-020 / R 0,5 mm / T 1,09 mm / 19% • Material: Stainless AISI 304 (EN 1.4301)

D+ E: Plates for pizza

Shop Decoration page 22 and 23

A+B+D+E: Shelves • RM Pattern: 409-005 / C 9,0 mm / U 34,0 mm / 7,0%

C: Shelves • RM Pattern: 410-000 / C 10,0 / U 14,0 mm / 51% • Material: 0,9 mild steel

White Goods page 24 and 25

A: Gas burner (round holes)

B: Microwave (round holes)

C: Dishwasher sieve • R 0,6 mm / T 0,9 mm / 40,3% • Material: Stainless 1.4301

D: Drum for washing machine

E+F: Washing machine

Various page 26 and 27

A: Sun shield, Oslo airport, Norway • Expanded metal • RM Pattern: 1230-4525 / Mesh size: 12,0 mm x 30,0 mm /
41,0% Material: 2,5 mm mild steel

B: Sun shield, SamPension Hellerup, Denmark • RM Pattern: 812-031 / R 12,0 mm / U 24,0 mm / 19,6% •
Material: 1,5 mm Copper

C+D: Richfon • RM Pattern: 750-000 / R 5,0 mm / T 7,5 mm / 40% • A sound absorbing notice board

E+F: Bridge

G: Litter basket

H: Bench

Various page 28

Samples of a few of the many different patterns we produce at RMIG.

www.rmig.com

**Austria | RMIG Lochbleche GmbH | Aumuehlweg 14 (ARED-Park) | 2544 Leobersdorf
Tel. +43 2256 62482 | Fax +43 2256 62482 334 | info.at@rmig.com**

**Belgium | RMIG nv/sa | Victor Bocquéstraat 11/1 | Industrieterrein Noord IV | 9300 Aalst
Tel. +32 53 76 77 40 | Fax +32 53 76 77 49 | info.be@rmig.com**

**Denmark | RMIG A/S | Industriparken 40 | 2750 Ballerup
Tel. +45 44 20 88 00 | Fax +45 44 20 88 01 | info.dk@rmig.com**

**France | RMIG | 12, rue André Citroën | Z.A. des Grandes Terres | B.P. 314 | 69745 Genas Cedex
Tel. +33 4 72 47 43 43 | Fax +33 4 72 47 43 20 | info.fr@rmig.com**

**Germany | RMIG GmbH | Hallesche Strasse 39 | 06779 Raguhn
Tel. +49 34 906 50 0 | Fax +49 34 906 20 202 | info.de@rmig.com**

**Germany | RMIG Nold GmbH | Am Katzloch 1 | 64589 Stockstadt/Rhein
Tel. +49 6158 821 0 | Fax +49 6158 821 200 | info.nold@rmig.com**

**Italy | RMIG S.p.A. | Via Trasta, 3 | 16162 Genova
Tel. +39 010 740 39 39 | Fax +39 010 740 39 00 | info.it@rmig.com**

**The Netherlands | RMIG bv | Kubus 120 | 3364 DG Sliedrecht
Tel. +31 184 491 919 | Fax +31 184 491 910 | info.nl@rmig.com**

**Norway | RMIG AS | Lillevarskogen | 3160 Stokke
Tel. +47 33 33 66 66 | Fax +47 33 33 66 70 | info.no@rmig.com**

**Poland | RMIG Sp. z o.o. | ul. Wieruszowska 12/16 | 60 166 Poznań
Tel. +48 61 8 676 650 | Fax +48 61 8 676 649 | info.pl@rmig.com**

**Spain | RMIG | P.I. Igeltzera | Barrikako Bide Kalea | 48610 Urduliz
Tel. +34 94 676 00 61 | Fax +34 94 676 01 07 | info.es@rmig.com**

**Sweden | RMIG Sweden AB | Västerängsvägen 1 | 542 22 Mariestad
Tel. +46 501 682 00 | Fax +46 501 184 31 | info.se@rmig.com**

**Switzerland | RMIG AG | Industriestrasse 28 | 4601 Olten
Tel. +41 62 287 88 88 | Fax +41 62 287 88 80 | info.ch@rmig.com**

**UK | RMIG Ltd | Adlington Court | Risley Road | Birchwood WA3 6PL | Warrington Cheshire
Tel. +44 1925 839 600 | Fax +44 1925 826 326 | info.uk@rmig.com**

