

RONAM
GOMMA
GROUP

ITALIAN RUBBER SOUL

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WHO WE ARE

Ronam Gomma Group was founded in **1983** from the vision of **Maurizio Nava**: an idea rooted in technical expertise, a passion for innovation, and a clear goal – to ensure quality and safety in the industrial rubber sector for structural construction.

Since then, we have never stopped evolving.

Today, the company is also led **by the second generation**, with the same pioneering spirit and an increasingly international vision.

Our projects are developed at our facility in Treviolo (BG), where we oversee the entire production process in-house: from rubber vulcanization to the final product manufacturing.

This short supply chain allows us to offer **tailor-made solutions, reliable lead times, and consistent quality.**



For over forty years, we have been supporting those who build the future, every single day.



Our Team



QUALITY AND CERTIFICATIONS

Since 1997, we have operated in compliance with **UNI EN ISO 9001:2000**, standards, but a major milestone was achieved in 2018: we became one of the few companies in Europe to obtain **CE EN 1337-3:2005** certification for structural rubber devices. An outstanding achievement, recognized by **Politecnico di Milano**, one of the most authoritative European institutions in the field of construction.

This milestone was followed, in May 2025, by the **CE EN 1337-9:1999**, certification – also validated by the Politecnico – for protection against environmental effects on exposed metal components.

Each product can be supplied, upon Customer request, with laboratory certifications and engineering reports.



Notified Body 1777 - CPR

CERTIFICATE OF CONSTANCY OF PERFORMANCE
1777 - CPR - 18.02

In compliance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

Elastomeric Bearings

types A, B, C and F, made of Natural Rubber compound RG/NR with dimensions in plan less than or equal to 1200 x 1200 mm, for minimum operating temperature of -25° C and maximum operating temperature of +50° C (and for short periods up to +70°C)

with trade name

RG/EN

RG A/EN

to use in buildings and civil engineering works where requirements on individual devices are critical,

placed on the market under the name or trade mark of

RONAM GOMMA GROUP SRL

Via delle Industrie, 19 - 24048 Treviolo (BG) - Italy

and produced in the manufacturing plant

RONAM GOMMA GROUP SRL

Via delle Industrie, 19 - 24048 Treviolo (BG) - Italy

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

EN 1337-3:2005

under System 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

constancy of performance of the construction product.

This certificate was first issued on 15 November 2018 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Milan, 27 March 2025.

Revision no. 2

Prof. Ing. Virginio Quaglini
Head of Certification Body

Laboratorio Prove Materiali
NB 1777- CPR

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Building trust together.

Certificate

CISQ/ICMQ S.p.A. has issued an IQNET recognized certificate that the organization:

RONAM GOMMA GROUP S.r.L.
Via delle Industrie, 19 - 24048 Treviolo BG

has implemented and maintains a/an
Quality Management System

for the following scope:

production of bearing plates for concrete elements, industrial technical articles in rubber and composites

which fulfils the requirements of the following standard

UNI EN ISO 9001:2015

Issued on: **28/11/2024**
First issued on: **10/07/1997**
Expires on: **30/11/2027**

Registration Number: **IT-4549 - 97171**

Alex Stoichitoiu
President of IQNET

Mario Romersl
President of CISQ



This attestation is directly linked to the IQNET Member's original certificate and shall not be used as a stand-alone document.

IQNET Members*:
AENOR Spain AFNOR Certification France APCER Portugal CCC Cyprus CISQ Italy CQC China COM China COS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany EAGLE Certification Group USA FCAV Brazil FONDONORMA Venezuela ICONTEC Colombia ICS Bosnia and Herzegovina INTECO Costa Rica IRAM Argentina JQA Japan KFG Korea LSQA Uruguay MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland NYCE-SIGE Mexico PCBC Poland Quality Austria Austria SII Israel SIO Slovenia SIRIM QAS International Malaysia SOS Switzerland SRAC Romania TSE Turkey YUQS Serbia

* The list of IQNET Members is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com



CISQ is a member of



The International Certification Network
www.iqnet-certification.com

CERTIFICATO

CERTIFICATE
97171

SI CERTIFICA CHE IL SISTEMA DI GESTIONE DI
we hereby certify that management system operated by

RONAM GOMMA GROUP S.r.l.

Via delle Industrie, 19 - 24048 Treviolo BG

UNITA' OPERATIVE CERTIFICATE
operational certified units

Via delle Industrie, 19 - 24048 Treviolo BG

E' CONFORME ALLA NORMA
is in compliance with the standard

UNI EN ISO 9001:2015

PER I SEGUENTI TIPI DI PRODOTTI, PROCESSI E SERVIZI
covering the following kind of products, processes and services

IAF: 14, 17

produzione piastre di appoggio per prefabbricati in calcestruzzo, articoli tecnici industriali in gomma e compositi

production of bearing plates for concrete elements, industrial technical articles in rubber and composites

L'uso e la validità del presente certificato sono soggetti al rispetto delle Condizioni Generali di Contratto per la certificazione di sistemi di gestione
Use and validity of this certificate subject to General Agreement Conditions for certification of management systems

PRIMA EMISSIONE
FIRST ISSUE
10/07/1997

EMISSIONE CORRENTE
CURRENT ISSUE
28/11/2024

SCADENZA
EXPIRY
30/11/2027

Il Presidente e Direttore Generale
Chairman and General Manager
Lorenzo Orsenigo



NE 6011MS
Membro degli Accordi di Muto
Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC
Mutual Recognition Agreements

ICMQ S.p.A. Società Benefit - Via De Castilia, 10 - 20124 MILANO - www.icmq.org - icmq@icmq.org

CUSTOM FIT

We offer fully customizable solutions designed to meet the specific requirements of every project: structural rubber bearings, anti-vibration systems, components for bridges, infrastructure, and large-scale civil works.

Choosing
Ronam Gomma Group
means relying on a solid,
qualified,
and certified partner,

capable of turning
every engineering
challenge into a
concrete solution.



PRODUCTS

Ronam Gomma offers a complete range of **technical rubber products** designed to meet the needs of our Clients.

From expansion joints to bearings devices for bridges and viaducts, to rubber mats and mattresses for cattle stalls,

every solution is developed to ensure strength, durability, and safety

using only premium-grade materials (non-recycled SBR/NR) and entirely Italian manufacturing processes.

Our products **combine high technical performance with ease of installation and maintenance**, helping to **improve efficiency and sustainability** in both infrastructure and livestock sectors.



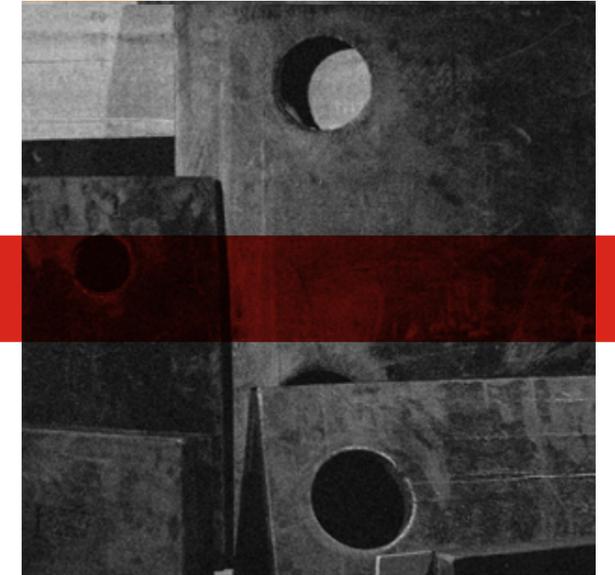
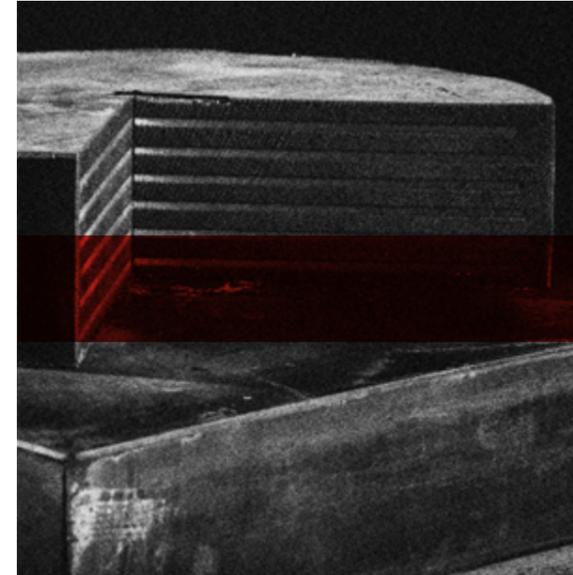
RONAM GOMMA product assortment



RONAM GOMMA product assortment



CONSTRUCTION

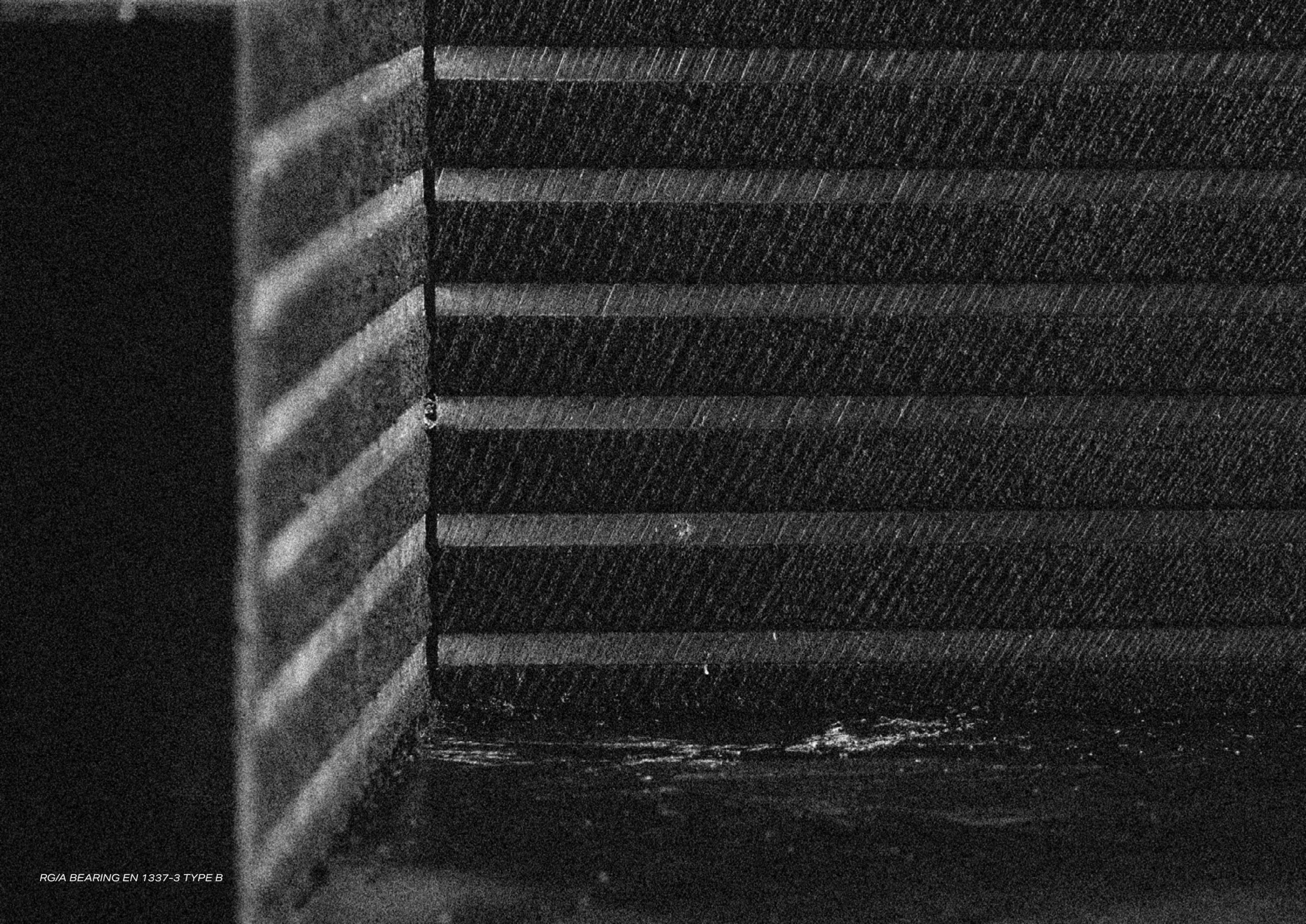


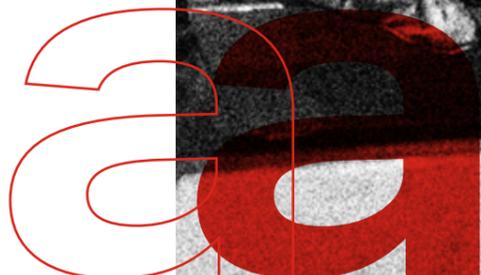
BEARINGS

Bearing devices are **essential structural components** for the correct transmission of loads between the various parts of a structure, while also allowing relative movements such as displacements and rotations.

Ronam Gomma Group offers reliable and certified solutions for the construction and maintenance of infrastructure, providing a **high-performance range of bearing devices** for bridges, viaducts, and civil or industrial buildings.







RG and RG/A EN 1337-3 BEARINGS

RG/A reinforced rubber bearings are designed to **withstand vertical loads up to 20,000 kN**, while simultaneously allowing movements and rotations in all directions thanks to the natural deformability of rubber.

Steel plates are embedded within the elastomer, perfectly bonded through a vulcanization process. These plates are fully encapsulated in the rubber and therefore **protected from atmospheric agents and corrosion**.

Depending on the bearing configuration, the allowable horizontal loads range between 5% and 10% of the vertical load, while displacements are limited to a tangential deformation $\gamma = 1$.

For greater translational movements, **Ronamflon bearings** can be used. For high horizontal loads, versions **RG/A Type V and V1** are available, which incorporate steel plates to transfer the load via steel-on-steel contact.

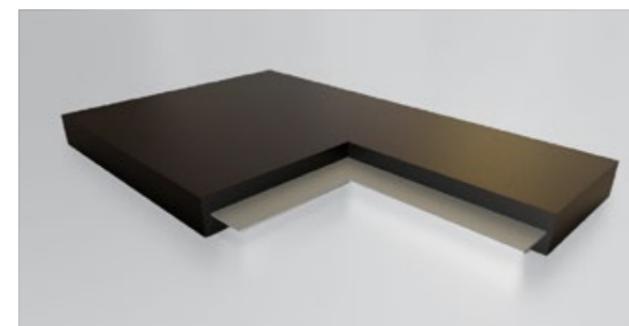
All exposed steel parts are protected with a high-solids two-component coating, **tested by the Politecnico di Milano in accordance with EN 1337-9**.

Based on production volumes, each bearing undergoes rigorous quality checks, including tests for vertical stiffness, shear stiffness, **and rubber-to-steel adhesion, in full compliance with EN 1337-3**.

RG/A bearings are supplied ready for installation and are designed to **guarantee a minimum service life of 50 years**.

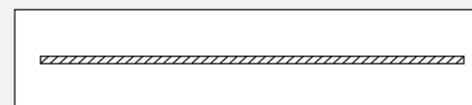
If not installed immediately, they must be stored properly, **away from moisture, heat, and dirt**.

Barring exceptional events, a visual inspection every five years is sufficient to verify the integrity of the rubber and the corrosion protection.

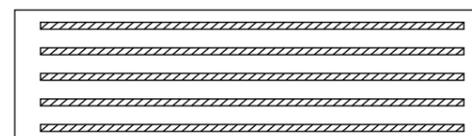


RG and RG/A EN 1337-3 BEARINGS

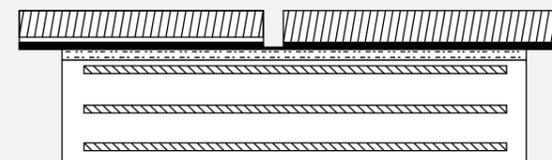
Table of the product range that Ronam Gomma Group offers for **RG and RG/A supports EN 1337-3**.



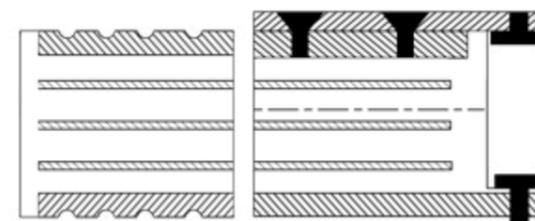
TYPE A: Laminated bearing fully covered with elastomer comprising only one steel reinforcing plate.



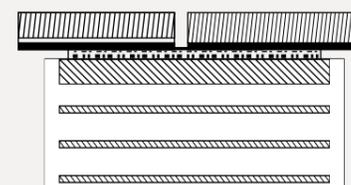
TYPE B: Laminated bearing fully covered with elastomer comprising at least two steel reinforcing plates.



TYPE C: Laminated bearing with outer steel plates (profiled or allowing fixing). NOTE The sketch shows examples of a few fixing methods; other methods can be used by agreement.



TYPE D: TYPE B with PTFE sheet bonded to the elastomer.



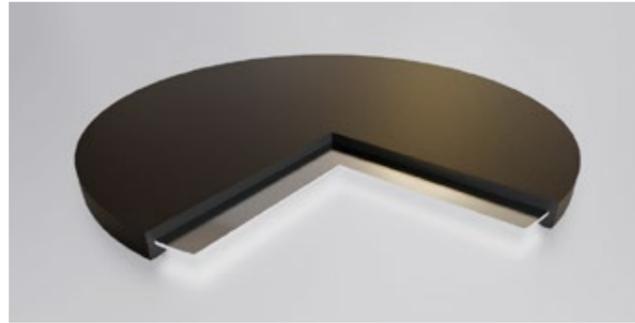
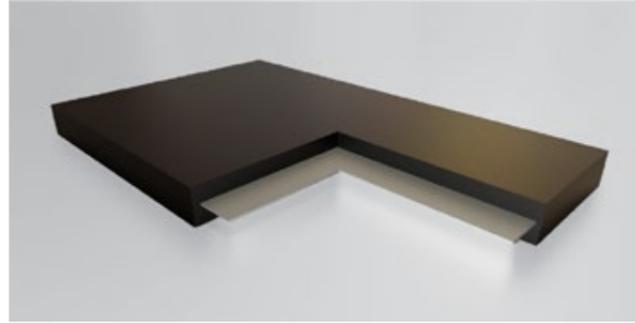
TYPE E: TYPE C with one outer plate bonded to the elastomer and PTFE sheet recessed in the steel.



TYPE F: Plain pad bearings and strip bearings

RG/A EN 1337-3 BEARINGS (TYPE A)

RECTANGULAR MODEL



Basic bearing device consisting of an **S235JR steel** plate vulcanized within **natural rubber (NR)**.

It does not include any mechanical anchoring system to the structure.

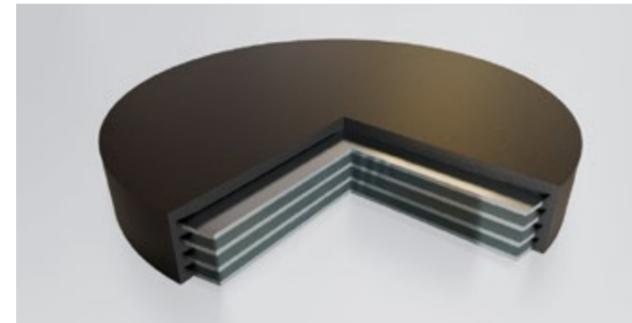
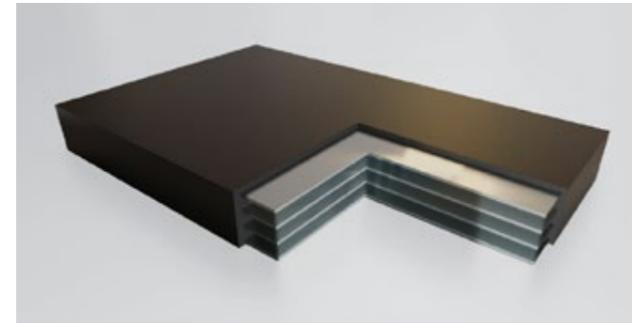
CIRCULAR MODEL

RG RUBBER PROPERTIES	M.U.	REQUIREMENTS	TEST METHODOLOGY
Hardness	IRHD	60	ISO 48 : 2010
Hardness range	IRHD	± 3	ISO 48 : 2010
Resistance at break	MPa	≥ 16,00	ISO 37 : 2011
Elongation at break	%	≥ 425	ISO 37 : 2011
25% Compression set 24h 70°	%	≤ 30	ISO 815-1 : 2008
Tear resistance	N/mm	≥ 8	ISO 34-1 : 2010
Following thermal aging in a circulating air oven at 70°C for 7 days			ISO 188 : 2011
Hardness variation	IRDN	-5/+10	
Resistance at break variation	%	± 15	
Elongation at break variation	%	± 25	
Ozone resistance (25 ppcm 30% 96 h 40°C)		No cracks at sight	ISO 1431-1 : 2012
Fragility limit temperature	°C	-25 + 70	ISO 812 : 2011
Rubber metal attack	N/mm	≥ 7	ISO 813 : 2010
G modulus	MPa	0,9	EN 1337-3 : 2005

PROPERTIES OF S235JR STEEL	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI EN
Tensile strenght at break	N/ mm ²	R > 400	10025
Exhaustement tension	N/ mm ²	Rs > 320	10025
Elongation at break	%	A > 19,8%	10025

RG/A EN 1337-3 BEARINGS (TYPE B)

RECTANGULAR MODEL



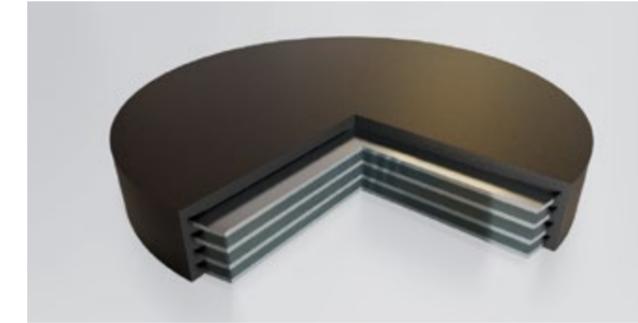
Basic bearing device consisting of alternating layers of **natural rubber (NR)** and **S235JR steel** plates, vulcanized within the rubber.

It does not include any mechanical anchoring system to the structure.

CIRCULAR MODEL

RG RUBBER PROPERTIES	M.U.	REQUIREMENTS	TEST METHODOLOGY
Hardness	IRHD	60	ISO 48 : 2010
Hardness range	IRHD	± 3	ISO 48 : 2010
Resistance at break	MPa	≥ 16,00	ISO 37 : 2011
Elongation at break	%	≥ 425	ISO 37 : 2011
25% Compression set 24h 70°	%	≤ 30	ISO 815-1 : 2008
Tear resistance	N/mm	≥ 8	ISO 34-1 : 2010
Following thermal aging in a circulating air oven at 70°C for 7 days			ISO 188 : 2011
Hardness variation	IRDN	-5/+10	
Resistance at break variation	%	± 15	
Elongation at break variation	%	± 25	
Ozone resistance (25 ppcm 30% 96 h 40°C)		No cracks at sight	ISO 1431-1 : 2012
Fragility limit temperature	°C	-25 + 70	ISO 812 : 2011
Rubber metal attack	N/mm	≥ 7	ISO 813 : 2010
G modulus	MPa	0,9	EN 1337-3 : 2005

PROPERTIES OF S235JR STEEL	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI EN
Tensile strenght at break	N/ mm ²	R > 400	10025
Exhaustement tension	N/ mm ²	Rs > 320	10025
Elongation at break	%	A > 19,8%	10025

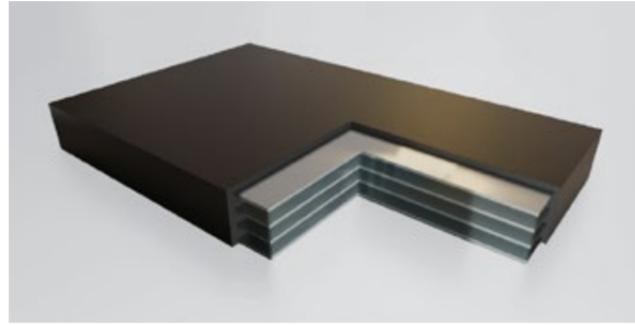


RG/A EN 1337-3 BEARINGS (TYPE B)

CIRCULAR MODEL

TYPE B CIRCULAR PROPERTIES

DIAMETER	HEIGHT	METAL SHEETS	ELASTOMER			HORIZONTAL STIFFNESS	VERTICAL LOAD	HORIZONTAL LOAD	DISPLACEMENT	TOTAL SIZE	VOLUME	WEIGHT
D mm	htot mm	Ts mm	Tl mm	N n	ko kN/mm	Fz UL5 KN	H max UL5 KN	Vh mm	Ø mm	Vol dm³	w Kg	
200	23	2	6	2	1,66	424	5,65	3,4	200x23	0,7	2	
	31			3	1,23	474		4,6	200x31	1,0	3	
	39			4	0,97	501		5,8	200x39	1,2	4	
250	23	2	6	2	2,60	660	8,84	3,4	250x23	1,1	3	
	31			3	1,92	834		4,6	250x31	1,5	4	
	39			4	1,52	918		5,8	250x39	1,9	6	
300	31	2	6	3	2,77	1187	12,72	4,6	300x31	2,2	6	
	39			4	2,19	1410		5,8	300x39	2,8	8	
	47			5	1,82	1540		7,0	300x47	3,3	10	
	55			6	1,55	1625		8,2	300x55	3,9	11	
350	37	2	8	3	2,99	1684	17,32	5,8	350x37	3,6	10	
	47			4	2,34	1888		7,4	350x47	4,5	12	
	57			5	1,92	2007		9,0	350x57	5,5	14	
	67			6	1,63	2082		10,6	350x67	6,4	17	
400	37	2	8	3	3,90	2138	22,62	5,8	400x37	4,6	12	
	47			4	3,06	2554		7,4	400x47	5,9	16	
	57			5	2,51	2797		9,0	400x57	7,2	19	
	67			6	2,13	2954		10,6	400x67	8,4	22	
450	60	3	10	4	3,18	3200	28,63	9,0	450x60	9,5	28	
	73			5	2,60	3422		11,0	450x73	11,6	33	
	86			6	2,20	3564		13,0	450x86	13,7	39	
	99			7	1,91	3658		15,0	450x99	15,7	45	
500	60	3	10	4	3,93	4035	35,34	9,0	500x60	11,8	34	
	73			5	3,21	4425		11,0	500x73	14,3	41	
	86			6	2,72	4675		13,0	500x86	16,9	48	
	99			7	2,36	4845		15,0	500x99	19,4	55	
550	60	3	10	4	4,75	4820	42,77	9,0	550x60	14,3	41	
	73			5	3,89	5465		11,0	550x73	17,3	50	
	86			6	3,29	5885		13,0	550x86	20,4	58	
	99			7	2,85	6175		15,0	550x99	23,5	67	
600	60	3	10	4	5,65	5455	50,89	9,0	600x60	17,0	49	
	73			5	4,63	6470		11,0	600x73	20,6	59	
	86			6	3,91	7135		13,0	600x86	24,3	70	
	99			7	3,39	7600		15,0	600x99	28,0	80	
650	68	3	12	4	5,63	6805	59,73	10,6	650x68	22,6	61	
	83			5	4,59	7675		13,0	650x83	27,5	74	
	98			6	3,88	8240		15,4	650x98	32,5	87	
	113			7	3,36	8265		17,8	650x113	37,5	99	
700	80	3	15	4	5,33	7760	69,27	13,0	700x80	30,8	77	
	98			5	4,33	7725		16,0	700x98	37,7	93	
	116			6	3,65	7690		19,0	700x116	44,6	109	
	134			7	3,15	7655		22,0	700x134	51,6	125	
750	80	3	15	4	6,12	8935	79,52	13,0	750x80	35,3	88	
	98			5	4,97	8900		16,0	750x98	43,3	107	
	116			6	4,19	8860		19,0	750x116	51,2	125	
	134			7	3,61	8825		22,0	750x134	59,2	144	
800	85	4	15	4	6,96	10405	90,48	13,0	800x85	42,7	120	
	104			5	5,65	11680		16,0	800x104	52,3	145	
	123			6	4,76	12510		19,0	800x123	61,8	170	
	142			7	4,11	13080		22,0	800x142	71,4	195	
	161			8	3,62	13385		25,0	800x161	80,9	221	
850	85	4	15	4	7,86	11485	102,14	13,0	850x85	48,2	135	
	104			5	6,38	13235		16,0	850x104	59,0	164	
	123			6	5,38	14375		19,0	850x123	69,8	192	
	142			7	4,64	15170		22,0	850x142	80,6	221	
	161			8	4,09	15165		25,0	850x161	91,4	249	
900	97	4	18	4	7,44	13320	114,51	15,4	900x97	61,7	161	
	119			5	6,03	14310		19,0	900x119	75,7	195	
	141			6	5,07	14250		22,6	900x141	89,7	230	
	163			7	4,37	14190		26,2	900x163	103,7	264	
	185			8	3,84	14130		29,8	900x185	117,7	298	



RG/A EN 1337-3 BEARINGS (TYPE B)

RECTANGULAR MODEL

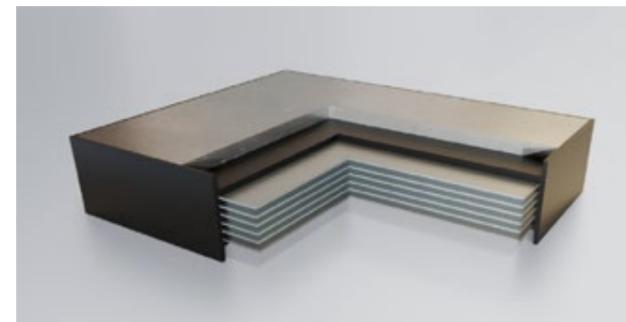
TYPE B RECTANGULAR PROPERTIES

DIAMETER	HEIGHT	METAL SHEETS	ELASTOMER			HORIZONTAL STIFFNESS	VERTICAL LOAD	HORIZONTAL LOAD	DISPLACEMENT	TOTAL SIZE	VOLUME	WEIGHT
A x B mm	htot mm	Ts mm	Ti mm	N n	ko kN/mm	Fv kN	Fh kN	S mm	Dim mm	Vol dm³	W Kg	
100 x 100	23 31	2	6	2 3	0,53 0,39	73 67	1,8	3,4 4,6	100x100x23 100x100x31	0,2 0,3	1 1	
100 x 150	23 31	2	6	2 3	0,79 0,59	138 128	2,7	3,4 4,6	100x150x23 100x150x31	0,3 0,5	1 1	
100 x 200	23 31	2	6	2 3	1,06 0,78	210 193	3,6	3,4 4,6	100x200x23 100x200x31	0,5 0,6	1 2	
150 x 200	23 31	2	6	2 3	1,59 1,17	398 419	5,4	3,4 4,6	150x200x23 150x200x31	0,7 0,9	2 2	
150 x 250	23 31	2	6	2 3	1,99 1,47	554 584	6,75	3,4 4,6	150x250x23 150x250x31	0,9 1,2	2 3	
150 x 300	23 31	2	6	2 3	2,38 1,76	716 756	8,1	3,4 4,6	150x300x23 150x300x31	1,0 1,4	3 4	
200 x 250	31 39 47	2	6	3 4 5	1,96 1,55 1,29	860 905 930	9,0	4,6 5,8 7,0	200x250x31 200x250x39 200x250x47	1,6 2,0 2,4	4 5 6	
200 x 300	31 39 47	2	6	3 4 5	2,35 1,86 1,54	1130 1190 1223	10,8	4,6 5,8 7,0	200x300x31 200x300x39 200x300x47	1,9 2,3 2,8	5 6 8	
200 x 350	31 39 47	2	6	3 4 5	2,74 2,17 1,8	1410 1485 1526	12,6	4,6 5,8 7,0	200x350x31 200x350x39 200x350x47	2,2 2,7 3,3	6 7 9	
200 x 400	31 39 47	2	6	3 4 5	3,13 2,48 2,06	1698 1790 1840	14,4	4,6 5,8 7,0	200x400x31 200x400x39 200x400x47	2,5 3,1 3,8	7 8 10	
250 x 300	31 39 47 55	2	6	3 4 5 6	2,93 2,33 1,93 1,65	1408 1550 1635 1685	13,5	4,6 5,8 7,0 8,2	250x300x31 250x300x39 250x300x47 250x300x55	2,3 2,9 3,5 4,1	6 8 10 11	
250 x 400	31 39 47 55	2	6	3 4 5 6	3,91 3,10 2,57 2,20	2150 2370 2500 2580	18,0	4,6 5,8 7,0 8,2	250x400x31 250x400x39 250x400x47 250x400x55	3,1 3,9 4,7 5,5	8 11 13 15	
250 x 500	31 39 47 55	2	6	3 4 5 6	4,89 3,88 3,21 2,74	2940 3240 3420 3535	22,5	4,6 5,8 7,0 8,2	250x500x31 250x500x39 250x500x47 250x500x55	3,9 4,9 5,9 6,9	11 13 16 19	
300 x 400	41 52 63 74	3	8	3 4 5 6	3,72 2,92 2,4 2,04	2340 2520 2625 2688	21,6	5,8 7,4 9,0 10,6	300x400x41 300x400x52 300x400x63 300x400x74	4,9 6,2 7,6 8,9	15 18 22 26	
300 x 500	41 52 63 74	3	8	3 4 5 6	4,66 3,65 3,00 2,55	3230 3485 3630 3720	27,0	5,8 7,4 9,0 10,6	300x500x41 300x500x52 300x500x63 300x500x74	6,2 7,8 9,5 11,1	18 23 28 33	
300 x 600	41 52 63 74	3	8	3 4 5 6	5,59 4,38 3,60 3,06	4160 4490 4680 4800	32,4	5,8 7,4 9,0 10,6	300x600x41 300x600x52 300x600x63 300x600x74	7,4 9,4 11,3 13,3	22 28 33 39	
350 x 450	41 52 63 74	3	8	3 4 5 6	4,89 3,83 3,15 2,67	3140 3530 3755 3899	28,35	5,8 7,4 9,0 10,6	350x450x41 350x450x52 350x450x63 350x450x74	6,5 8,2 9,9 11,7	19 24 29 34	
350 x 500	41 52 63 74	3	8	3 4 5 6	5,43 4,26 3,50 2,97	3665 4120 4385 4555	31,5	5,8 7,4 9,0 10,6	350x500x41 350x500x52 350x500x63 350x500x74	7,2 9,1 11,0 13,0	22 27 33 38	
350 x 600	41 52 63 74	3	8	3 4 5 6	6,52 5,11 4,20 3,57	4755 5345 5690 5915	37,8	5,8 7,4 9,0 10,6	350x600x41 350x600x52 350x600x63 350x600x74	8,6 10,9 13,2 15,5	26 33 39 46	

DIAMETER	HEIGHT	METAL SHEETS	ELASTOMER			HORIZONTAL STIFFNESS	VERTICAL LOAD	HORIZONTAL LOAD	DISPLACEMENT	TOTAL SIZE	VOLUME	WEIGHT
A x B mm	htot mm	Ts mm	Ti mm	N n	ko kN/mm	Fv kN	Fh kN	S mm	Dim mm	Vol dm³	W Kg	
400 x 500	52 63 74 85	3	8	4 5 6 7	4,86 4,00 3,40 2,95	4560 5005 5290 5490	36,0	7,4 9,0 10,6 12,2	400x500x52 400x500x63 400x500x74 400x500x85	10,4 12,6 14,8 17,0	31 37 44 50	
400 x 600	52 63 74 85	3	8	4 5 6 7	5,84 4,80 4,08 3,54	5960 6540 6915 7175	43,2	7,4 9,0 10,6 12,2	400x600x52 400x600x63 400x600x74 400x600x85	12,5 15,1 17,8 20,4	37 45 53 60	
400 x 700	52 63 74 85 96	3	8	4 5 6 7 8	3,18 2,60 2,20 1,91	3200 3422 3564 3658	50,4	7,4 9,0 10,6 12,2 13,8	400x700x52 400x700x63 400x700x74 400x700x85 400x700x96	14,6 17,6 20,7 23,8 26,9	44 53 62 71 80	
400 x 800	52 63 74 85 96	3	8	4 5 6 7 8	3,93 3,21 2,72 2,36	4035 4425 4675 4845	57,6	7,4 9,0 10,6 12,2 13,8	400x800x52 400x800x63 400x800x74 400x800x85 400x800x96	16,6 20,2 23,7 27,2 30,7	50 60 71 81 91	
450 x 600	60 73 86 88 112	3	10	4 5 6 7 8	4,75 3,89 3,29 2,85	4820 5465 5895 6175	48,6	9,0 11,0 13,0 15,0 17,0	450x600x60 450x600x73 450x600x86 450x600x88 450x600x112	16,2 19,7 23,2 26,7 30,2	45 54 64 73 82	
500 x 500	60 73 86 99 112	3	10	4 5 6 7 8	5,65 4,63 3,91 3,39	5455 6470 7135 7600	45,0	9,0 11,0 13,0 15,0 17,0	500x500x60 500x500x73 500x500x86 500x500x99 500x500x112	15,0 18,3 21,5 24,8 28,0	42 50 59 67 76	
500 x 600	60 73 86 99 112	3	10	4 5 6 7 8	5,63 4,59 3,88 3,36	6805 7675 8240 8265	54,0	9,0 11,0 13,0 15,0 17,0	500x600x60 500x600x73 500x600x86 500x600x99 500x600x112	18,0 21,9 25,8 29,7 33,6	50 60 71 81 92	
500 x 700	60 73 86 99 112	3	10	4 5 6 7 8	5,33 4,33 3,65 3,15	7760 7725 7690 7655	63,0	9,0 11,0 13,0 15,0 17,0	500x700x60 500x700x73 500x700x86 500x700x99 500x700x112	21,0 25,6 30,1 34,7 39,2	59 71 83 95 107	
600 x 600	68 83 98 113 128	3	12	4 5 6 7 8	6,12 4,97 4,19 3,61	8935 8900 8860 8825	64,8	10,6 13,0 15,4 17,8 20,2	600x600x68 600x600x83 600x600x98 600x600x113 600x600x128	24,5 29,9 35,3 40,7 46,1	64 77 91 104 118	
600 x 700	68 83 98 113 128	4	12	4 5 6 7 8	6,96 5,65 4,76 4,11 3,62	10405 11680 12510 13080 13385	75,6	10,6 13,0 15,4 17,8 20,2	600x700x68 600x700x83 600x700x98 600x700x113 600x700x128	28,6 34,9 41,2 47,5 53,8	75 90 106 122 137	
600 x 800	68 83 98 113 128	4	12	4 5 6 7 8	7,86 6,38 5,38 4,64 4,09	11485 13235 14375 15170 15165	86,4	10,6 13,0 15,4 17,8 20,2	600x800x68 600x800x83 600x800x98 600x800x113 600x800x128	32,6 39,8 47,0 54,2 61,4	86 104 122 139 157	
700 x 700	85 104 123 142 161	4	15	4 5 6 7 8	6,78 5,51 4,64 4,01 3,53	10130 10930 11450 1800 12040	88,2	13,0 16,0 19,0 22,0 25,0	700x700x85 700x700x104 700x700x123 700x700x142 700x700x161	41,7 51,0 60,3 69,6 78,9	113 137 161 185 208	
700 x 800	85 104 123 142 161	4	15	4 5 6 7 8	7,75 6,30 5,31 4,58 4,03	12410 13400 14040 14480 14790	100,8	13,0 16,0 19,0 22,0 25,0	700x800x85 700x800x104 700x800x123 700x800x142 700x800x161	47,6 58,2 68,9 79,5 90,2	130 157 184 211 239	
700 x 900	85 104 123 142 161	4	15	4 5 6 7 8	8,72 7,09 5,97 5,15 4,54	14780 15970 16740 16890 16830	113,4	13,0 16,0 19,0 22,0 25,0	700x900x85 700x900x104 700x900x123 700x900x142 700x900x161	53,6 65,5 77,5 89,5 101,4	146 177 207 238 269	
800 x 800	85 104 123 142 161	4	15	4 5 6 7 8	8,86 7,20 6,06 5,27 4,61	13250 14870 15930 16660 17040	115,2	13,0 16,0 19,0 22,0 25,0	800x800x85 800x800x104 800x800x123 800x800x142 800x800x161	54,5 66,6 78,7 90,9 103,0	148 180 211 242 273	
800 x 900	85 104 123 142 161	4	15	4 5 6 7 8	9,97 8,10 6,82 5,89 5,18	15840 17790 19060 19340 19270	129,6	13,0 16,0 19,0 22,0 25,0	800x900x85 800x900x104 800x900x123 800x900x142 800x900x161	61,2 74,9 88,6 102,2 115,9	167 202 238 273 308	
800 x 1000	85 104 123 142 161	4	15	4 5 6 7 8	11,08 9,00 7,58 6,55 5,76	18530 20820 21630 21560 21500	144,0	13,0 16,0 19,0 22,0 25,0	800x1000x85 800x1000x104 800x1000x123 800x1000x142 800x1000x161	68,0 83,2 98,4 113,6 128,8	186 225 264 303 343	
900 x 900	97 119 141 163 185	4	18	4 5 6 7 8	9,47 7,67 6,45 5,56 4,89	16960 18220 18140 18060 17990	145,8	15,4 19,0 22,6 26,2 29,8	900x900x97 900x900x119 900x900x141 900x900x163 900x900x185	78,6 96,4 114,2 132,0 149,9	200 246 286 329 371	
1000 x 1000	125 148 171 194 217 240	5	18	5 6 7 8 9 10	9,47 7,96 6,87 6,04 5,39 4,86	23420 25330 26650 27610 27820 27710	180	19,0 22,6 26,2 29,8 33,4 37,0	1000x1000x125 1000x1000x148 1000x1000x171 1000x1000x194 1000x1000x217 1000x1000x240	125,0 148,0 171,0 194,0 217,0 240,0	346 407 467 528 588 649	

RG/A EN 1337-3 BEARINGS (TYPE C)

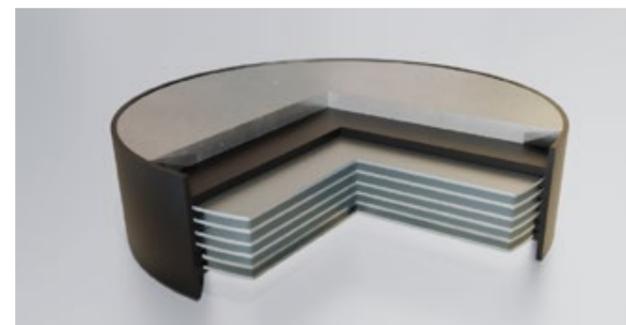
RECTANGULAR MODEL



Basic bearing device consisting of **alternating layers of natural rubber (NR) and S235JR steel plates**, vulcanized within the rubber, and equipped with one (Type C1) or two (Type C2) external plates of suitable thickness, with holes for smooth anchoring bars.

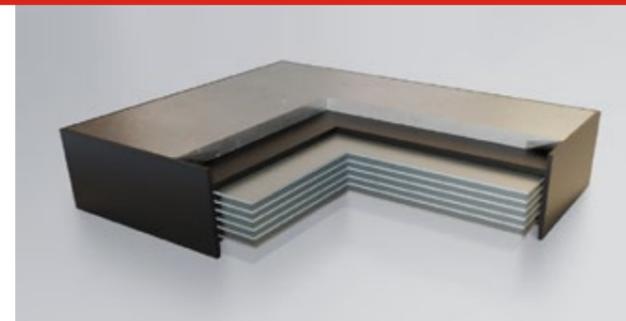
It is mainly used in cast-in-place structures to reduce the risk of slippage.

It can also be supplied with holes.



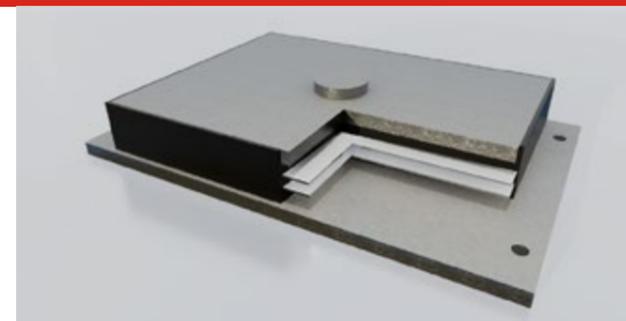
CIRCULAR MODEL

TYPE C 1



Bearing device equipped with an external plate.

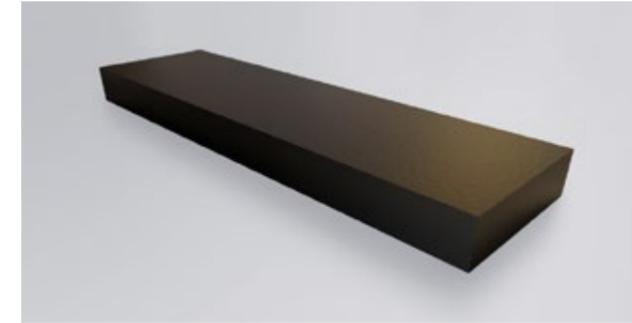
TYPE C 2



Bearing device equipped with two external plates positioned on the upper and lower sides.

RG RUBBER PROPERTIES	M.U.	REQUIREMENTS	TEST METHODOLOGY
Hardness	IRHD	60	ISO 48 : 2010
Hardness range	IRHD	± 3	ISO 48 : 2010
Resistance at break	MPa	≥ 16,00	ISO 37 : 2011
Elongation at break	%	≥ 425	ISO 37 : 2011
25% Compression set 24h 70°	%	≤ 30	ISO 815-1 : 2008
Tear resistance	N/mm	≥ 8	ISO 34 -1 : 2010
Following thermal aging in a circulating air oven at 70°C for 7 days			ISO 188 : 2011
Hardness variation	IRDN	-5/+10	
Resistance at break variation	%	± 15	
Elongation at break variation	%	± 25	
Ozone resistance (25 ppcm 30% 96 h 40°C)		No cracks at sight	ISO 1431-1 : 2012
Fragility limit temperature	°C	-25 + 70	ISO 812 : 2011
Rubber metal attack	N/mm	≥ 7	ISO 813 : 2010
G modulus	MPa	0,9	EN 1337-3 : 2005

PROPERTIES OF S235JR STEEL	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI EN
Tensile strenght at break	N/ mm ²	R > 400	10025
Exhaustement tension	N/ mm ²	Rs > 320	10025
Elongation at break	%	A > 19,8%	10025

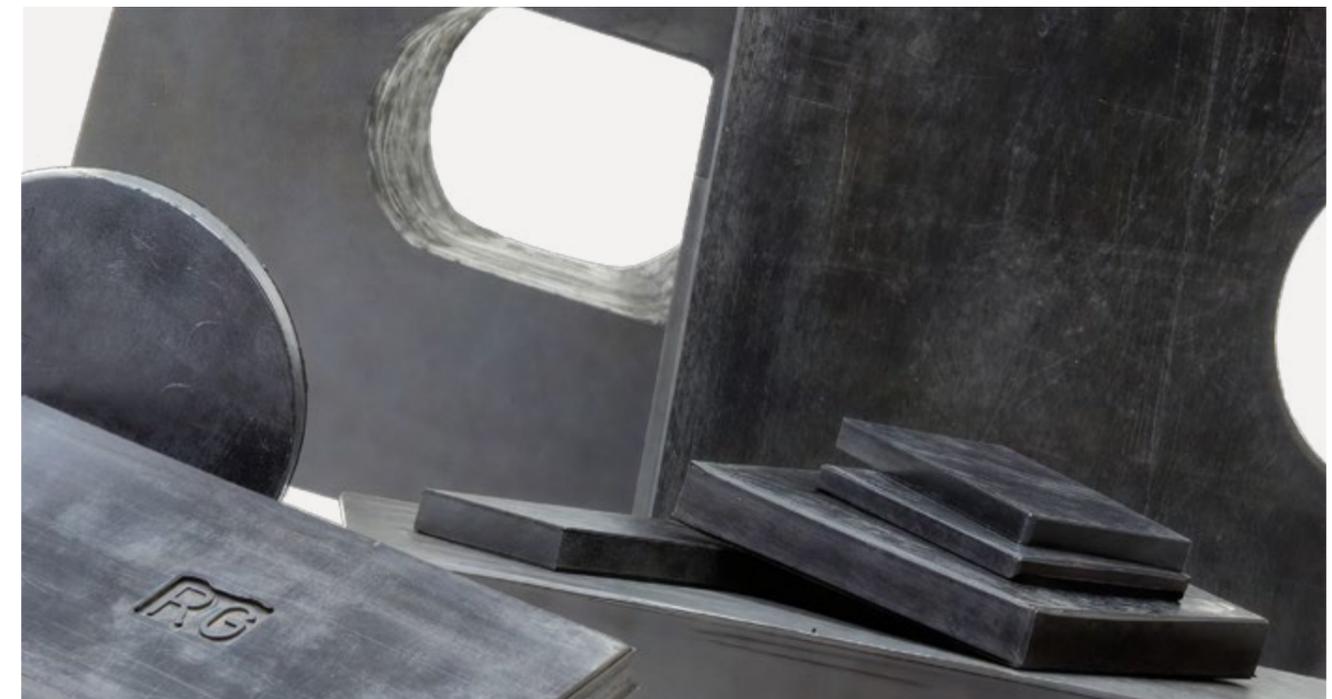


RG EN 1337-3 BEARINGS (TYPE F)

Basic bearing device made entirely of **natural rubber (NR)**, available in various dimensions, thicknesses, with holes, and even in strip form.

It does not include any mechanical anchoring system to the structure.

RG RUBBER PROPERTIES	M.U.	REQUIREMENTS	TEST METHODOLOGY
Hardness	IRHD	60	ISO 48 : 2010
Hardness range	IRHD	± 3	ISO 48 : 2010
Resistance at break	MPa	≥ 16,00	ISO 37 : 2011
Elongation at break	%	≥ 425	ISO 37 : 2011
25% Compression set 24h 70°	%	≤ 30	ISO 815-1 : 2008
Tear resistance	N/mm	≥ 8	ISO 34 -1 : 2010
Following thermal aging in a circulating air oven at 70°C for 7 days			ISO 188 : 2011
Hardness variation	IRDN	-5/+10	
Resistance at break variation	%	± 15	
Elongation at break variation	%	± 25	
Ozone resistance (25 ppcm 30% 96 h 40°C)		No cracks at sight	ISO 1431-1 : 2012
Fragility limit temperature	°C	-25 + 70	ISO 812 : 2011
Rubber metal attack	N/mm	≥ 7	ISO 813 : 2010
G modulus	MPa	0,9	EN 1337-3 : 2005



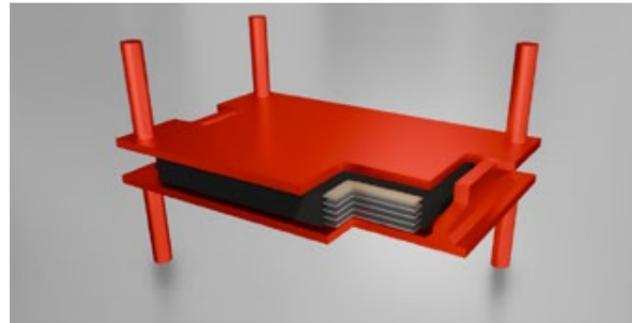
RG/A EN 1337-3 BEARINGS (TYPE V)

ORIGINAL MODEL

Mobile multidirectional bearing device, suitable for longitudinal and transverse displacements ranging from ±50 mm to ±100 mm. Composed of **alternating layers of natural rubber (NR), S235JR steel plates, polytetrafluoroethylene (PTFE), and AISI 304 inox steel**, all vulcanized within the rubber. Designed to withstand higher horizontal loads compared to a standard Type B bearing.

It can be used in any type of structure with appropriate anchoring and counterplates.

ORIGINAL MODEL WITH ANCHORING SYSTEM



RG RUBBER PROPERTIES	M.U.	REQUIREMENTS	TEST METHODOLOGY
Hardness	IRHD	60	ISO 48 : 2010
Hardness range	IRHD	± 3	ISO 48 : 2010
Resistance at break	MPa	≥ 16,00	ISO 37 : 2011
Elongation at break	%	≥ 425	ISO 37 : 2011
25% Compression set 24h 70°	%	≤ 30	ISO 815-1 : 2008
Tear resistance	N/mm	≥ 8	ISO 34 -1 : 2010
Following thermal aging in a circulating air oven at 70°C for 7 days			ISO 188 : 2011
Hardness variation	IRDN	-5/+10	
Resistance at break variation	%	± 15	
Elongation at break variation	%	± 25	
Ozone resistance (25 ppcm 30% 96 h 40°C)		No cracks at shight	ISO 1431-1 : 2012
Fragility limit temperature	°C	-25 + 70	ISO 812 : 2011
Rubber metal attack	N/mm	≥ 7	ISO 813 : 2010
G modulus	MPa	0,9	EN 1337-3 : 2005

PTFE G400 PROPERTIES	M.U.	REQUIREMENTS	ASTM TEST METHODOLOGY
Specific weight	G/cm3	2,14 – 2,18	D792
Hardness	Shore D	51 – 60	D2240
Tensile strenght	N/mm2	> 20	D4745
Elongation at break	%	> 200	D4745
Compression resistance with 1 % deformation	N/mm2	4 – 5	D695
Under load deformation at ambient temperature after 24 hours at 13,7 N/mm²	%	14 – 17	D621
Permanent deformation as above and after 24 hours of rest	%	7 – 8	D621
Dynamic friction coefficient		0,06	D1894
Exercise temperature (min – max)	°C	-200 / +200	
Expansion linear thermic coefficient 25 –100 °C	10 / °C	12 - 13	D696

INOX STEEL AISI 304 L MECHANICS PROPERTIES AT 20°C	REQUIREMENTS
Brinell Hardness	130 ± 150
Load at break	500 ± 680
Removal U load	175 ± 300
Minimum resistance	160

PROPERTIES OF S235JR STEEL	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI EN
Tensile strenght at break	N/ mm²	R > 400	10025
Exhaustement tension	N/ mm²	Rs > 320	10025
Elongation at break	%	A > 19,8%	10025

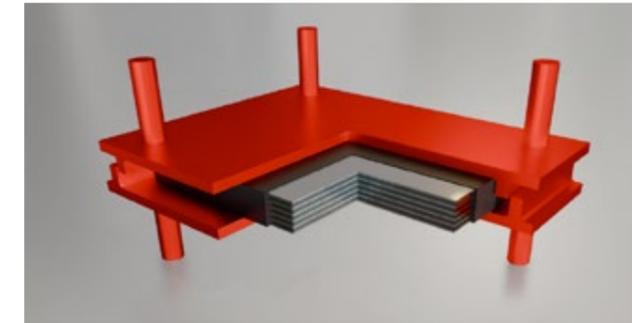
RG/A EN 1337-3 BEARINGS (TYPE V1)

ORIGINAL MODEL

Mobile unidirectional bearing device, suitable for longitudinal and transverse displacements ranging from ±50 mm to ±100 mm. Composed of **alternating layers of natural rubber (NR), S235JR steel plates, polytetrafluoroethylene (PTFE), and AISI 304 inox steel**, all vulcanized within the rubber. Designed to withstand higher horizontal loads in the constrained direction. In the other direction, it behaves like a standard reinforced rubber Type B bearing.

It can be used in any type of structure with appropriate anchoring and counterplates.

ORIGINAL MODEL WITH ANCHORING SYSTEM

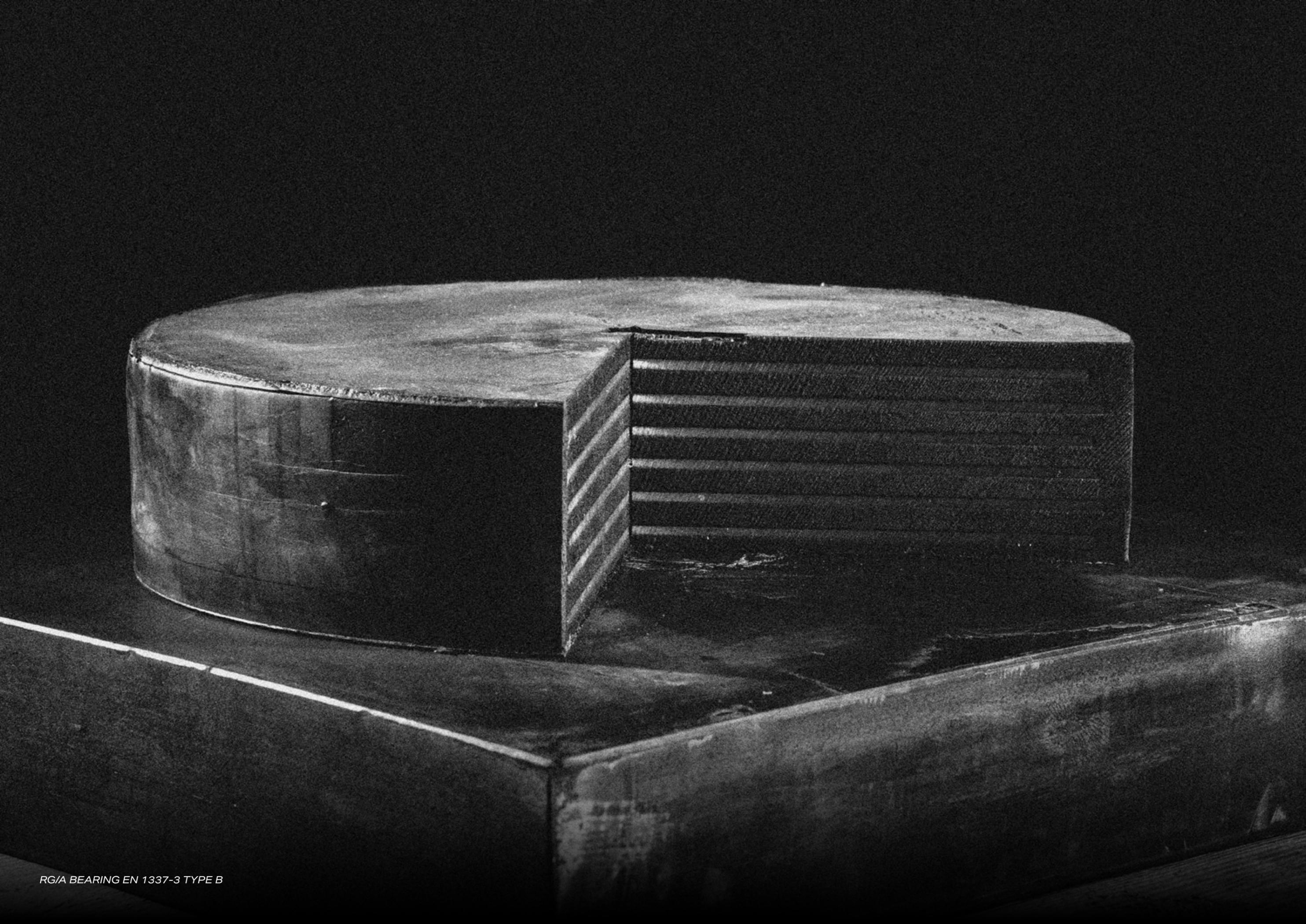


RG RUBBER PROPERTIES	M.U.	REQUIREMENTS	TEST METHODOLOGY
Hardness	IRHD	60	ISO 48 : 2010
Hardness range	IRHD	± 3	ISO 48 : 2010
Resistance at break	MPa	≥ 16,00	ISO 37 : 2011
Elongation at break	%	≥ 425	ISO 37 : 2011
25% Compression set 24h 70°	%	≤ 30	ISO 815-1 : 2008
Tear resistance	N/mm	≥ 8	ISO 34 -1 : 2010
Following thermal aging in a circulating air oven at 70°C for 7 days			ISO 188 : 2011
Hardness variation	IRDN	-5/+10	
Resistance at break variation	%	± 15	
Elongation at break variation	%	± 25	
Ozone resistance (25 ppcm 30% 96 h 40°C)		No cracks at shight	ISO 1431-1 : 2012
Fragility limit temperature	°C	-25 + 70	ISO 812 : 2011
Rubber metal attack	N/mm	≥ 7	ISO 813 : 2010
G modulus	MPa	0,9	EN 1337-3 : 2005

PTFE G400 PROPERTIES	M.U.	REQUIREMENTS	ASTM TEST METHODOLOGY
Specific weight	G/cm3	2,14 – 2,18	D792
Hardness	Shore D	51 – 60	D2240
Tensile strenght	N/mm2	> 20	D4745
Elongation at break	%	> 200	D4745
Compression resistance with 1 % deformation	N/mm2	4 – 5	D695
Under load deformation at ambient temperature after 24 hours at 13,7 N/mm²	%	14 – 17	D621
Permanent deformation as above and after 24 hours of rest	%	7 – 8	D621
Dynamic friction coefficient		0,06	D1894
Exercise temperature (min – max)	°C	-200 / +200	
Expansion linear thermic coefficient 25 –100 °C	10 / °C	12 - 13	D696

INOX STEEL AISI 304 L MECHANICS PROPERTIES AT 20°C	REQUIREMENTS
Brinell Hardness	130 ± 150
Load at break	500 ± 680
Removal U load	175 ± 300
Minimum resistance	160

PROPERTIES OF S235JR STEEL	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI EN
Tensile strenght at break	N/ mm²	R > 400	10025
Exhaustement tension	N/ mm²	Rs > 320	10025
Elongation at break	%	A > 19,8%	10025



RG/A BEARING EN 1337-3 TYPE B



RONAMFLON BEARINGS

TYPE D

Ronamflon bearings, made of reinforced rubber and PTFE, consist of an elastomeric pad placed between two steel plates.

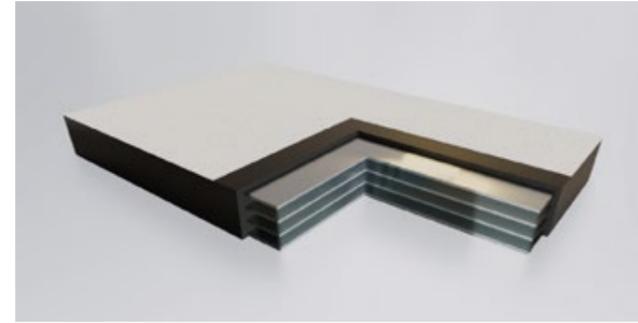
Between the pad and the upper plate, a stainless steel sheet and a PTFE layer are interposed, allowing for low-friction sliding movements.

The lower plate is vulcanized to the elastomeric pad and equipped with anchoring systems (dowels, anchor bolts, screws) for integration with the structure.

The internal steel plates, slightly smaller than the rubber layers, are completely embedded and protected.

These bearings are ideal for moderate vertical and horizontal loads and offer an economical and functional solution, especially

suitable for structures requiring controlled movements and long-term reliability.



RONAMFLON BEARINGS N

RG+PTFE+INOX (TYPE D)

Bearing devices manufactured by vulcanizing a layer of plain natural rubber (NR) or reinforced rubber with S235JR steel plates to a layer of polytetrafluoroethylene (PTFE), either smooth or embossed, all topped with a inox steel AISI 304 plate of suitable thickness.

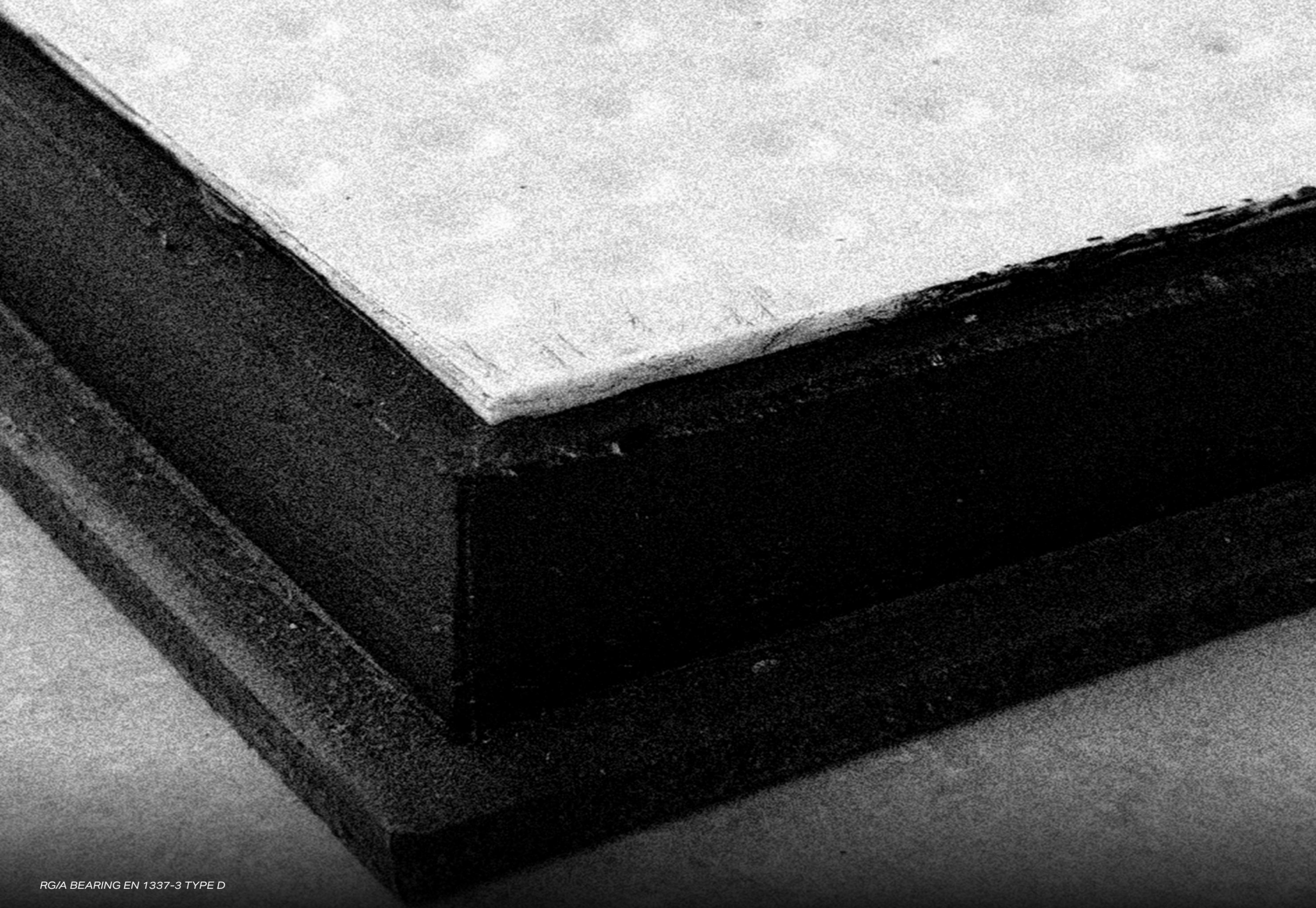
Available in circular, square or rectangular shapes, with dimensions and thicknesses upon request.

RG RUBBER PROPERTIES	M.U.	REQUIREMENTS	TEST METHODOLOGY
Hardness	IRHD	60	ISO 48 : 2010
Hardness range	IRHD	± 3	ISO 48 : 2010
Resistance at break	MPa	≥ 16,00	ISO 37 : 2011
Elongation at break	%	≥ 425	ISO 37 : 2011
25% Compression set 24h 70°	%	≤ 30	ISO 815-1 : 2008
Tear resistance	N/mm	≥ 8	ISO 34 -1 : 2010
Following thermal aging in a circulating air oven at 70°C for 7 days			ISO 188 : 2011
Hardness variation	IRDN	-5/+10	
Resistance at break variation	%	± 15	
Elongation at break variation	%	± 25	
Ozone resistance (25 ppcm 30% 96 h 40°C)		No cracks at sight	ISO 1431-1 : 2012
Fragility limit temperature	°C	-25 + 70	ISO 812 : 2011
Rubber metal attack	N/mm	≥ 7	ISO 813 : 2010
G modulus	MPa	0,9	EN 1337-3 : 2005

PTFE G400 PROPERTIES	M.U.	REQUIREMENTS	ASTM TEST METHODOLOGY
Specific weight	G/cm3	2,14 - 2,18	D792
Hardness	Shore D	51 - 60	D2240
Tensile strenght	N/mm2	> 20	D4745
Elongation at break	%	> 200	D4745
Compression resistance with 1 % deformation	N/mm2	4 - 5	D695
Under load deformation at ambient temperature after 24 hours at 13,7 N/mm²	%	14 - 17	D621
Permanent deformation as above and after 24 hours of rest	%	7 - 8	D621
Dynamic friction coefficient		0,06	D1894
Exercise temperature (min - max)	°C	-200 / +200	
Expansion linear thermic coefficient 25 -100 °C	10 / °C	12 - 13	D696

INOX STEEL AISI 304 L MECHANICS PROPERTIES AT 20°C	REQUIREMENTS
Brinell Hardness	130 ± 150
Load at break	500 ± 680
Removal U load	175 ± 300
Minimum resistance	160





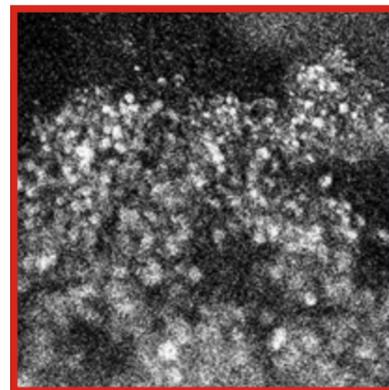
RG/A BEARING EN 1337-3 TYPE D



RG/DISC BEARINGS

- DISC F
- DISC M
- DISC U

The **RG/DISC** bearing consists of a steel base with a rubber disc confined by an upper steel element. Rotation occurs through deformation of the rubber disc, while translations take place via the contact between two flat surfaces (PTFE – INOX), ensuring effective dissipation of mechanical stresses, fully embedded and protected.



RG/DISC F BEARINGS

PTFE steel bearings with encapsulated rubber disc RG/DISC F SERIES
FIXED TYPE



TYPE	VERTICAL LOAD (KN)	HORIZONTAL LOAD (KN)	ROTATION (DEGREES)	BASE SIDE (MM)	HEIGHT (MM)
RG/DISC F 25	250	90	0,85	140	60
RG/DISC F 50	500	120	0,85	180	65
RG/DISC F 75	750	150	0,85	220	65
RG/DISC F 100	1000	220	0,85	240	75
RG/DISC F 125	1250	250	0,85	260	75
RG/DISC F 150	1500	280	0,85	300	75
RG/DISC F 175	1750	300	0,85	320	75
RG/DISC F 200	2000	380	0,85	350	75
RG/DISC F 250	2500	400	0,85	400	75
RG/DISC F 300	3000	490	0,85	420	85
RG/DISC F 350	3500	580	0,85	460	85
RG/DISC F 400	4000	700	0,85	500	85
RG/DISC F 450	4500	750	0,85	540	85
RG/DISC F 500	5000	800	0,85	560	100
RG/DISC F 600	6000	1100	0,85	640	100
RG/DISC F 700	7000	1200	0,85	680	110
RG/DISC F 800	8000	1300	0,85	720	110
RG/DISC F 900	9000	1400	0,85	780	110
RG/DISC F 1000	10000	1600	0,85	840	130

HOT-ROLLED STEEL S355J2 UNI EN 10025 (FE510)	
POISSON COEFFICIENT	0,3
ELONGATION MODULUS	206000 N/mm ²
MASS DENSITY	7850 Kg/m ³
CUT MODULUS	79230 N/mm ²
UNIT BREAKING LOAD	360 N/mm ²
% ELONGATION AT BREAK	19,8%
UNIT EXHAUSTEMENT LOAD	355 N/mm ²
UNIT ACCEPTABLE LOAD	210 N/mm ²

STEEL X5NiCrMo 1712 (AISI 316)	
POISSON COEFFICIENT	0,3
ELONGATION MODULUS	206000 N/mm ²
MASS DENSITY	7850 Kg/m ³
CUT MODULUS	79230 N/mm ²
UNIT BREAKING LOAD	490-685 N/mm ²
UNITARY LOAD OF REMOVAL FROM THE PROPORTIONALITY	205 N/mm ²
UNIT ACCEPTABLE LOAD	136 N/mm ²

NATURAL RUBBER (ISO 6446)	
NOMINAL HARDNESS	63 +/- 5 Shore A3
RESISTANCE AT BREAK	>15,5 N/MM ²
MASS DENSITY	1200 KG/M ³
G MODULUS	1MPa
% ELONGATION AT BREAK	>400%

POLYTETRAFLUOROETHYLENE PTFE (UNI EN 1337-2)	
HARDNESS	55 SHORE D3
TENSILE STRENGTH (23°)	>24 N/MM ²
MASS DENSITY	2170 KG/M ³
MAXIMUM LOAD	50 KG/M ³
% ELONGATION AT BREAK (23°)	>300%

RG/DISC M BEARINGS

PTFE steel bearings with encapsulated rubber disc RG/DISC M SERIES
MULTIDIRECTIONAL TYPE



TYPE	VERTICAL LOAD (KN)	ROTATION (DEGREES)	BASE SIDE (MM)	HEIGHT (MM)
RG/DISC M 25	250	0,85	130	75
RG/DISC M 50	500	0,85	170	80
RG/DISC M 75	750	0,85	220	80
RG/DISC M 100	1000	0,85	220	90
RG/DISC M 125	1250	0,85	240	90
RG/DISC M 150	1500	0,85	290	90
RG/DISC M 175	1750	0,85	310	90
RG/DISC M 200	2000	0,85	340	95
RG/DISC M 250	2500	0,85	370	95
RG/DISC M 300	3000	0,85	400	105
RG/DISC M 350	3500	0,85	440	110
RG/DISC M 400	4000	0,85	470	110
RG/DISC M 450	4500	0,85	500	125
RG/DISC M 500	5000	0,85	530	125
RG/DISC M 600	6000	0,85	600	130
RG/DISC M 700	7000	0,85	650	135
RG/DISC M 800	8000	0,85	680	145
RG/DISC M 900	9000	0,85	720	165
RG/DISC M 1000	10000	0,85	780	165

HOT-ROLLED STEEL S355J2 UNI EN 10025 (FE510)	
POISSON COEFFICIENT	0,3
ELONGATION MODULUS	206000 N/mm ²
MASS DENSITY	7850 Kg/m ³
CUT MODULUS	79230 N/mm ²
UNIT BREAKING LOAD	360 N/mm ²
% ELONGATION AT BREAK	19,8%
UNIT EXHAUSTEMENT LOAD	355 N/mm ²
UNIT ACCEPTABLE LOAD	210 N/mm ²

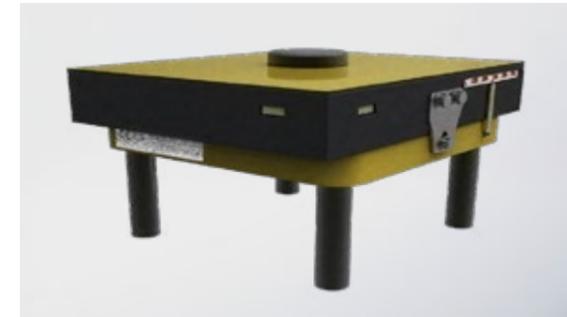
STEEL X5NICRMO 1712 (AISI 316)	
POISSON COEFFICIENT	0,3
ELONGATION MODULUS	206000 N/mm ²
MASS DENSITY	7850 Kg/m ³
CUT MODULUS	79230 N/mm ²
UNIT BREAKING LOAD	490-685 N/mm ²
UNITARY LOAD OF REMOVAL FROM THE PROPORTIONALITY	205 N/mm ²
UNIT ACCEPTABLE LOAD	136 N/mm ²

NATURAL RUBBER (ISO 6446)	
NOMINAL HARDNESS	63 +/- 5 Shore A3
RESISTANCE AT BREAK	>15,5 N/MM ²
MASS DENSITY	1200 KG/M ³
G MODULUS	1MPa
% ELONGATION AT BREAK	>400%

POLYTETRAFLUOROETHYLENE PTFE (UNI EN 1337-2)	
HARDNESS	55 SHORE D3
TENSILE STRENGTH (23°)	>24 N/MM ²
MASS DENSITY	2170 KG/M ³
MAXIMUM LOAD	50 KG/M ³
% ELONGATION AT BREAK (23°)	>300%

RG/DISC U BEARINGS

PTFE steel bearings with encapsulated rubber disc RG/DISC U SERIES
UNIDIRECTIONAL TYPE



TYPE	VERTICAL LOAD (KN)	HORIZONTAL LOAD (KN)	ROTATION (DEGREES)	BASE SIDE (MM)	HEIGHT (MM)
RG/DISC U 25	250	70	0,85	140	80
RG/DISC U 50	500	85	0,85	180	85
RG/DISC U 75	750	120	0,85	220	85
RG/DISC U 100	1000	160	0,85	240	90
RG/DISC U 125	1250	180	0,85	260	100
RG/DISC U 150	1500	200	0,85	290	100
RG/DISC U 175	1750	220	0,85	310	100
RG/DISC U 200	2000	270	0,85	350	100
RG/DISC U 250	2500	300	0,85	400	100
RG/DISC U 300	3000	350	0,85	420	120
RG/DISC U 350	3500	410	0,85	460	130
RG/DISC U 400	4000	500	0,85	500	130
RG/DISC U 450	4500	530	0,85	540	130
RG/DISC U 500	5000	600	0,85	560	135
RG/DISC U 600	6000	700	0,85	620	135
RG/DISC U 700	7000	900	0,85	650	155
RG/DISC U 800	8000	1100	0,85	720	155
RG/DISC U 900	9000	1300	0,85	760	175
RG/DISC U 1000	10000	1600	0,85	830	175

HOT-ROLLED STEEL S355J2 UNI EN 10025 (FE510)	
POISSON COEFFICIENT	0,3
ELONGATION MODULUS	206000 N/mm ²
MASS DENSITY	7850 Kg/m ³
CUT MODULUS	79230 N/mm ²
UNIT BREAKING LOAD	360 N/mm ²
% ELONGATION AT BREAK	19,8%
UNIT EXHAUSTEMENT LOAD	355 N/mm ²
UNIT ACCEPTABLE LOAD	210 N/mm ²

STEEL X5NICRMO 1712 (AISI 316)	
POISSON COEFFICIENT	0,3
ELONGATION MODULUS	206000 N/mm ²
MASS DENSITY	7850 Kg/m ³
CUT MODULUS	79230 N/mm ²
UNIT BREAKING LOAD	490-685 N/mm ²
UNITARY LOAD OF REMOVAL FROM THE PROPORTIONALITY	205 N/mm ²
UNIT ACCEPTABLE LOAD	136 N/mm ²

NATURAL RUBBER (ISO 6446)	
NOMINAL HARDNESS	63 +/- 5 Shore A3
RESISTANCE AT BREAK	>15,5 N/MM ²
MASS DENSITY	1200 KG/M ³
G MODULUS	1MPa
% ELONGATION AT BREAK	>400%

POLYTETRAFLUOROETHYLENE PTFE (UNI EN 1337-2)	
HARDNESS	55 SHORE D3
TENSILE STRENGTH (23°)	>24 N/MM ²
MASS DENSITY	2170 KG/M ³
MAXIMUM LOAD	50 KG/M ³
% ELONGATION AT BREAK (23°)	>300%





RONAMFLEX

Expansion Joints

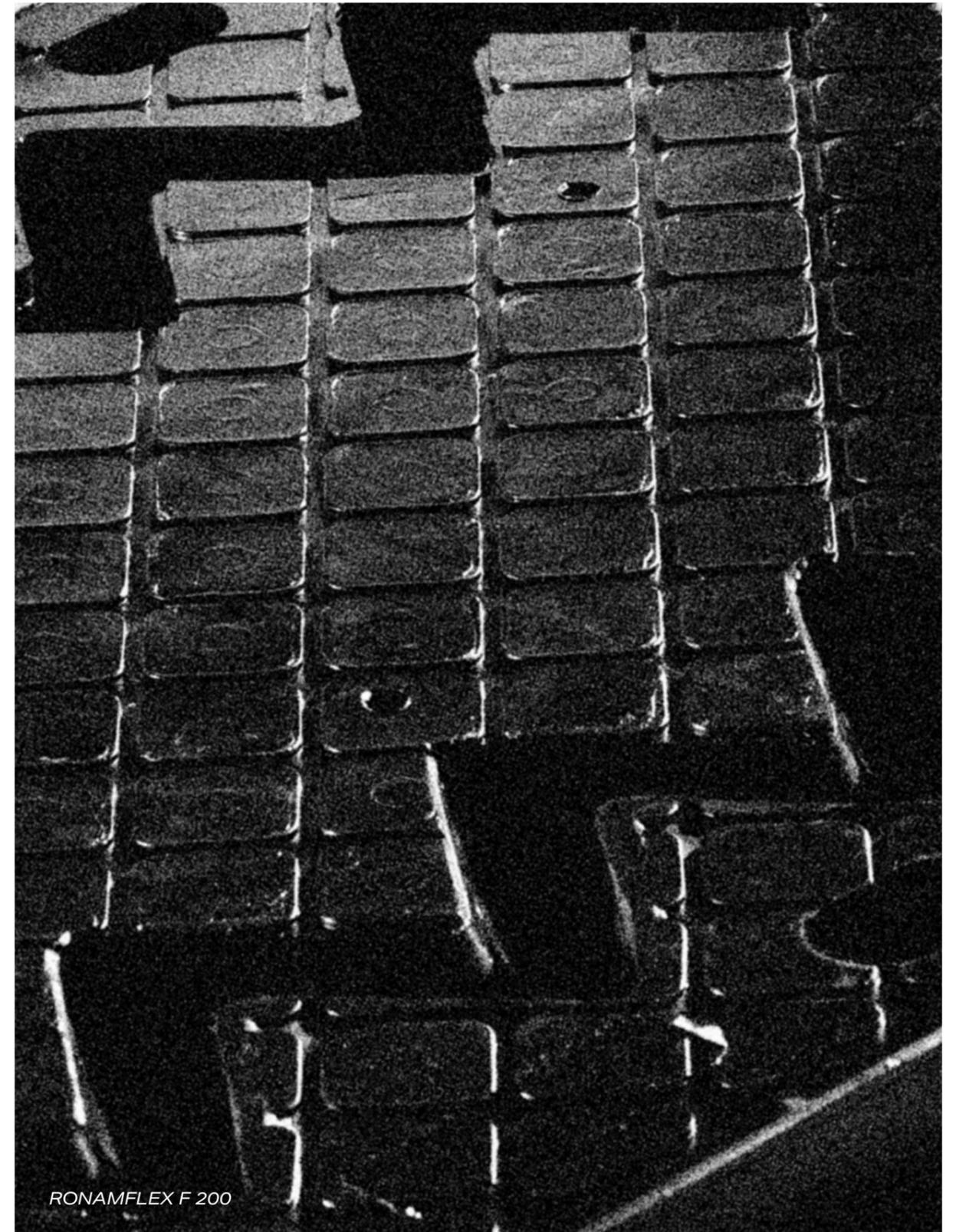
The **RONAMFLEX expansion joint** is designed to ensure high and long-lasting performance in infrastructures subjected to significant mechanical stresses.

It is composed of a **reinforced rubber element with fully embedded steel reinforcements** to protect them from corrosion, ensuring strength and reliability even under extreme conditions.

The rubber used is highly resistant to abrasion, oils, gasoline, de-icing salt, and UV rays, and is specifically formulated to withstand wear caused by tires and snow chains.

The technical characteristics comply with European standards, while the **steel reinforcements S275JR (cold-rolled according to UNI 7070) ensure strong rubber-to-steel adhesion (>10 N/mm).**

The anchoring system includes galvanized steel threaded rods with an anti-loosening devices, secured with epoxy resin for perfect integration into the structure.



OPERATIONAL EXPANSION ± 25
RONAMFLEX F.50
RONAMFLEX expansion joints are manufactured in compliance with EU regulations.



RUBBER PROPERTIES	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI
Nominal Hardness	Shore A3	60	868
Hardness Field	Shore A3	55+65	
Specific Hardness Tolerance	Shore A3	± 5	
Breaking Load	N/ mm ²	> 15,5	6065
Elongation at Break	%	> 450	6065
Last deterioration after compression of 25% 24 h 70°	%	< 20	4913
Thermal deterioration after 96 h 70°C maximum hardness variation	Shore A3	± 10	5408

RUBBER PROPERTIES	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI
Maximum resistance at break variation	%	- 15	5408
Maximum variation elongation % at breaking	%	- 20	5408
Ozone resistance (50 p.p.c.m. 20% elongation 96 h 40°C)		no cracks	6067-6068
Fragility limit temperature	°C	< - 25	7320
Rubber-metal attack	N/mm	> 10	5405
G Modulus	N/mm ²	0,9	EN 1337-3 : 2005
Tolerance Modulus	%	± 15	

PROPERTIES OF S275JR STEEL	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI EN
Tensile strenght at break	N/ mm ²	R > 430	10025
Exhaustement tension	N/ mm ²	Rs > 275	10025
Elongation at break	%	A > 23%	10025

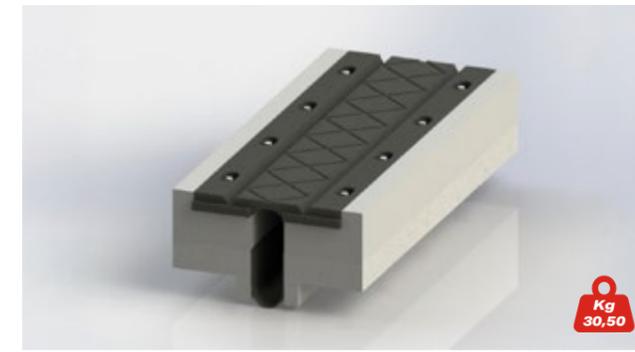
POS.	DESCRIZIONE MATERIALI	SPO	NORME	DIMENSIONI
A	GIUNTO F.50	NEOPRENE	CNR 1001B/99	270x30x1000
B	TRAFONDO DI ANCORAGGIO	Fe 37 ZINCAIO	-	M12x200
C	RESINA EPOSSIDICA	-	-	-
D	SCOSSALINA IN GOMMA	ELASTOMERO	-	300x2
E	MALTA DI LIVELLAMENTO E SIGILLATURA	-	-	-
F	TUBO DI DRENAGGIO	-	-	ø 22
G	EPOSSICATRAME DI SIGILLATURA FORI	-	-	-
H	PIATTO IN ACCIAIO	-	-	-
I	RONDELLA	-	-	ø 24,5
L	DADO DI BLOCCAGGIO	S.S	UNI 3740	M12
PESO TOTALE				kg 15,50

DILATAZIONE D'ESERCIZIO ± 25mm

RONAM GOMMA GROUP srl
24048 - Treviolo (BG) - ITALY
Ing. G. Piantoni
UNI-EN 22768-mK
6g-6H

GIUNTO DI DILATAZIONE STRADALE RONAMFLEX F.50
GIUNTO F.50 A

OPERATIONAL EXPANSION ± 50
RONAMFLEX F.100
RONAMFLEX expansion joints are manufactured in compliance with EU regulations.



RUBBER PROPERTIES	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI
Nominal Hardness	Shore A3	60	868
Hardness Field	Shore A3	55+65	
Specific Hardness Tolerance	Shore A3	± 5	
Breaking Load	N/ mm ²	> 15,5	6065
Elongation at Break	%	> 450	6065
Last deterioration after compression of 25% 24 h 70°	%	< 20	4913
Thermal deterioration after 96 h 70°C maximum hardness variation	Shore A3	± 10	5408

RUBBER PROPERTIES	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI
Maximum resistance at break variation	%	- 15	5408
Maximum variation elongation % at breaking	%	- 20	5408
Ozone resistance (50 p.p.c.m. 20% elongation 96 h 40°C)		no cracks	6067-6068
Fragility limit temperature	°C	< - 25	7320
Rubber-metal attack	N/mm	> 10	5405
G Modulus	N/mm ²	0,9	EN 1337-3 : 2005
Tolerance Modulus	%	± 15	

PROPERTIES OF S275JR STEEL	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI EN
Tensile strenght at break	N/ mm ²	R > 430	10025
Exhaustement tension	N/ mm ²	Rs > 275	10025
Elongation at break	%	A > 23%	10025

POS.	DESCRIZIONE MATERIALI	SPO	NORME	DIMENSIONI
A	GIUNTO F.100	NEOPRENE	CNR 1001B/99	360x40x1010
B	TRAFONDO DI ANCORAGGIO	Fe 37 ZINCAIO	-	M 16x200
C	RESINA EPOSSIDICA	-	-	-
D	SCOSSALINA IN GOMMA	ELASTOMERO	-	300x2
E	MALTA DI LIVELLAMENTO E SIGILLATURA	-	-	-
F	TUBO DI DRENAGGIO	-	-	ø 33
G	EPOSSICATRAME DI SIGILLATURA FORI	-	-	-
H	PIATTO IN ACCIAIO	-	-	-
I	RONDELLA	-	-	ø 30x5
L	DADO DI BLOCCAGGIO	S.S	UNI 3740	M16
PESO TOTALE				kg 30,50

DILATAZIONE D'ESERCIZIO ± 50mm

RONAM GOMMA GROUP srl
24048 - Treviolo (BG) - ITALY
Ing. G. Piantoni
UNI-EN 22768-mK
6g-6H

GIUNTO DI DILATAZIONE STRADALE RONAMFLEX F.100
GIUNTO F.100 A

OPERATIONAL EXPANSION ± 100
RONAMFLEX F.200
RONAMFLEX expansion joints are manufactured in compliance with EU regulations.



Kg
65,00

RUBBER PROPERTIES	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI
Nominal Hardness	Shore A3	60	868
Hardness Field	Shore A3	55+65	
Specific Hardness Tolerance	Shore A3	± 5	
Breaking Load	N/ mm ²	> 15,5	6065
Elongation at Break	%	> 450	6065
Last deterioration after compression of 25% 24 h 70°	%	< 20	4913
Thermal deterioration after 96 h 70°C maximum hardness variation	Shore A3	± 10	5408

RUBBER PROPERTIES	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI
Maximum resistance at break variation	%	- 15	5408
Maximum variation elongation % at breaking	%	- 20	5408
Ozone resistance (50 p.p.c.m. 20% elongation 96 h 40°C)		no cracks	6067-6068
Fragility limit temperature	°C	< - 25	7320
Rubber-metal attack	N/mm	> 10	5405
G Modulus	N/mm ²	0,9	EN 1337-3 : 2005
Tolerance Modulus	%	± 15	

PROPERTIES OF S275JR STEEL	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI EN
Tensile strenght at break	N/ mm ²	R > 430	10025
Exhaustement tension	N/ mm ²	Rs > 275	10025
Elongation at break	%	A > 23%	10025

DILATAZIONE D'ESERCIZIO X ± 100mm
DILATAZIONE TRASVERSALE Y ± 100mm

POS.	DESCRIZIONE MATERIALI	TIPO	NORME	DIMENSIONI
A	GIUNTO F.200	NEOPRENE	CNR 1001B/P9	605x60x1000
B	BRAFONDO DI ANCORAGGIO	Fe 37 BINCAIO	-	M20x200
C	RESINA EPOSSIDICA	-	-	-
D	SCOSSALINA IN GOMMA	ELASTOMERO	-	400x2
E	MALTA DI LIVELLAMENTO E SIGILLATURA	-	-	-
F	PIATTO IN ACCIAIO	-	-	220x6
G	EPOSSICITRAME DI SIGILLATURA FORI	-	-	-
H	PIATTO IN ACCIAIO	-	-	220x10
I	RONDELLA	-	-	ø 37x3
L	DADO DI BLOCCAGGIO	8.8	UNI 3740	M20
	PESO TOTALE			kg 65

CLIENTE	CONMESSA	PRODOTTORE	REVISIONE	REVISIONE
RONAM GOMMA GROUP srl 24048 - Treviso (BG) - ITALY		DISEGNATO - Drawn Ing. G. Piantoni DATA - Date 12/01/2022		CONTROLLATO - Checked DATA - Date
TOLLERANZE GENERALI: Qualità tolleranze: UNI-EN 22768-mK		TOLLERANZA FILETTI UNI5414-5: 6g-6H	SCALA - Scale 1:4	PAG. - Nr. No 1/1
TOLLERANZE PER SVILUPPI E QUOTE FUNZIONARIE C.M.A.: JS11		COD. - Code	REV.	
DENOMINAZIONE - Description GIUNTO DI DILATAZIONE STRADALE RONAMFLEX F.200		GIUNTO F.200 A		

OPERATIONAL EXPANSION ± 160
RONAMFLEX F.320
RONAMFLEX expansion joints are manufactured in compliance with EU regulations.



Kg
120,00

RUBBER PROPERTIES	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI
Nominal Hardness	Shore A3	60	868
Hardness Field	Shore A3	55+65	
Specific Hardness Tolerance	Shore A3	± 5	
Breaking Load	N/ mm ²	> 15,5	6065
Elongation at Break	%	> 450	6065
Last deterioration after compression of 25% 24 h 70°	%	< 20	4913
Thermal deterioration after 96 h 70°C maximum hardness variation	Shore A3	± 10	5408

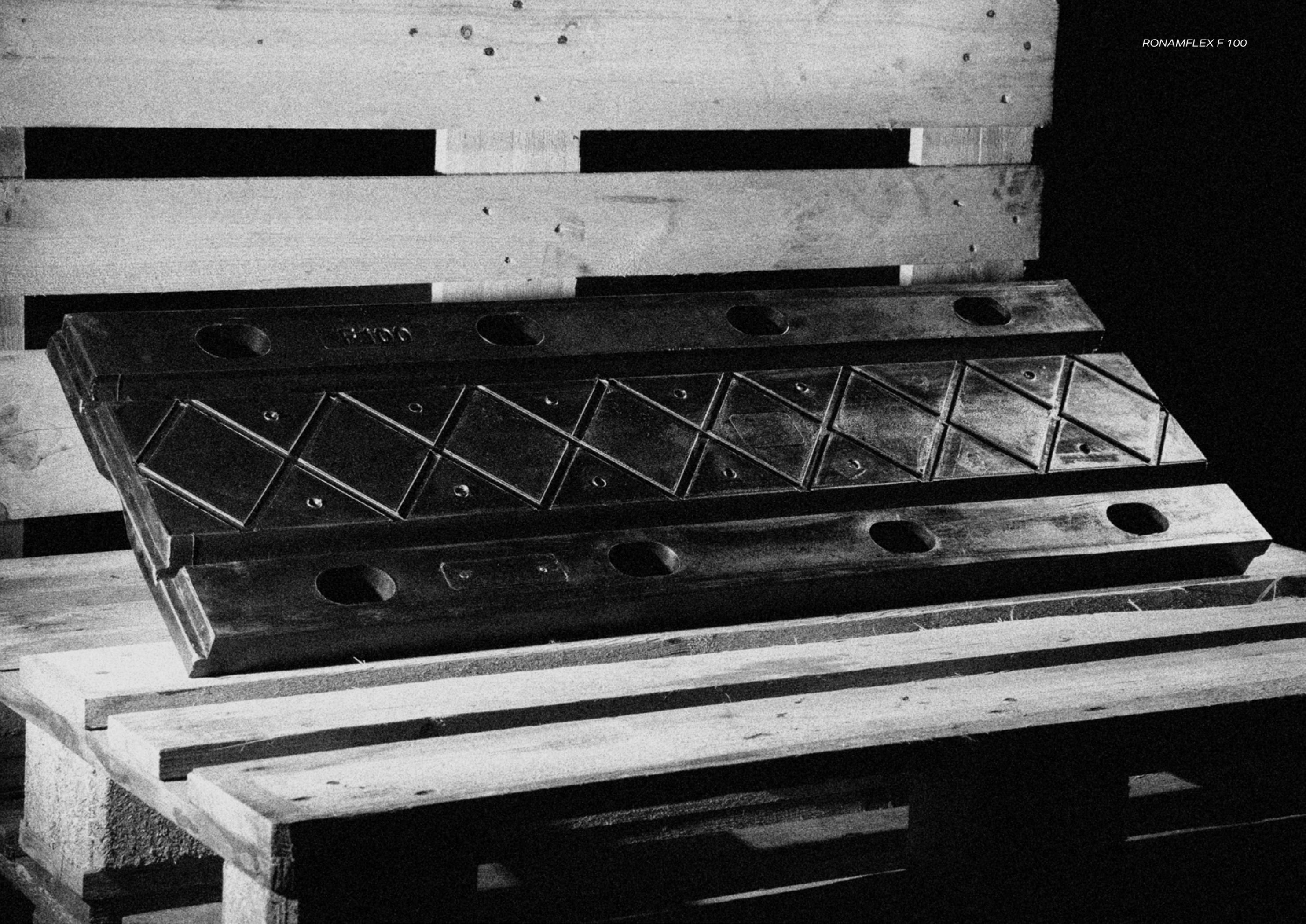
RUBBER PROPERTIES	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI
Maximum resistance at break variation	%	- 15	5408
Maximum variation elongation % at breaking	%	- 20	5408
Ozone resistance (50 p.p.c.m. 20% elongation 96 h 40°C)		no cracks	6067-6068
Fragility limit temperature	°C	< - 25	7320
Rubber-metal attack	N/mm	> 10	5405
G Modulus	N/mm ²	0,9	EN 1337-3 : 2005
Tolerance Modulus	%	± 15	

PROPERTIES OF S275JR STEEL	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI EN
Tensile strenght at break	N/ mm ²	R > 430	10025
Exhaustement tension	N/ mm ²	Rs > 275	10025
Elongation at break	%	A > 23%	10025

DILATAZIONE D'ESERCIZIO X ± 160mm
DILATAZIONE TRASVERSALE Y ± 160mm

POS.	DESCRIZIONE MATERIALI	TIPO	NORME	DIMENSIONI
A	GIUNTO F.320	NEOPRENE	CNR 1001B/P9	605x60x1000
B	BRAFONDO DI ANCORAGGIO	Fe 37 BINCAIO	-	M20x200
C	RESINA EPOSSIDICA	-	-	-
D	SCOSSALINA IN GOMMA	ELASTOMERO	-	400x2
E	MALTA DI LIVELLAMENTO E SIGILLATURA	-	-	-
F	PIATTO IN ACCIAIO	-	-	220x6
G	EPOSSICITRAME DI SIGILLATURA FORI	-	-	-
H	PIATTO IN ACCIAIO	-	-	220x10
I	RONDELLA	-	-	ø 37x3
L	DADO DI BLOCCAGGIO	8.8	UNI 3740	M20
	PESO TOTALE			kg 120

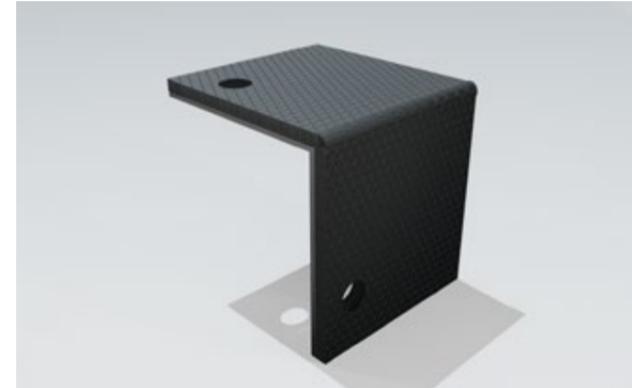
CLIENTE	CONMESSA	PRODOTTORE	REVISIONE	REVISIONE
RONAM GOMMA GROUP srl 24048 - Treviso (BG) - ITALY		DISEGNATO - Drawn Ing. G. Piantoni DATA - Date 22/03/2024		CONTROLLATO - Checked DATA - Date
TOLLERANZE GENERALI: Qualità tolleranze: UNI-EN 22768-mK		TOLLERANZA FILETTI UNI5414-5: 6g-6H	SCALA - Scale 1:4	PAG. - Nr. No 1/1
TOLLERANZE PER SVILUPPI E QUOTE FUNZIONARIE C.M.A.: JS11		COD. - Code	REV.	
DENOMINAZIONE - Description GIUNTO DI DILATAZIONE STRADALE RONAMFLEX F.320		RONAMFLEX F.320		



SIZE L=840

RONAMFLEX JOINT FOR 90° CURB

RONAMFLEX expansion joints are manufactured in compliance with EU regulations.



The 90° curb expansion joint is manufactured in compliance with European standards and specifically designed to cover the sidewalk gap.

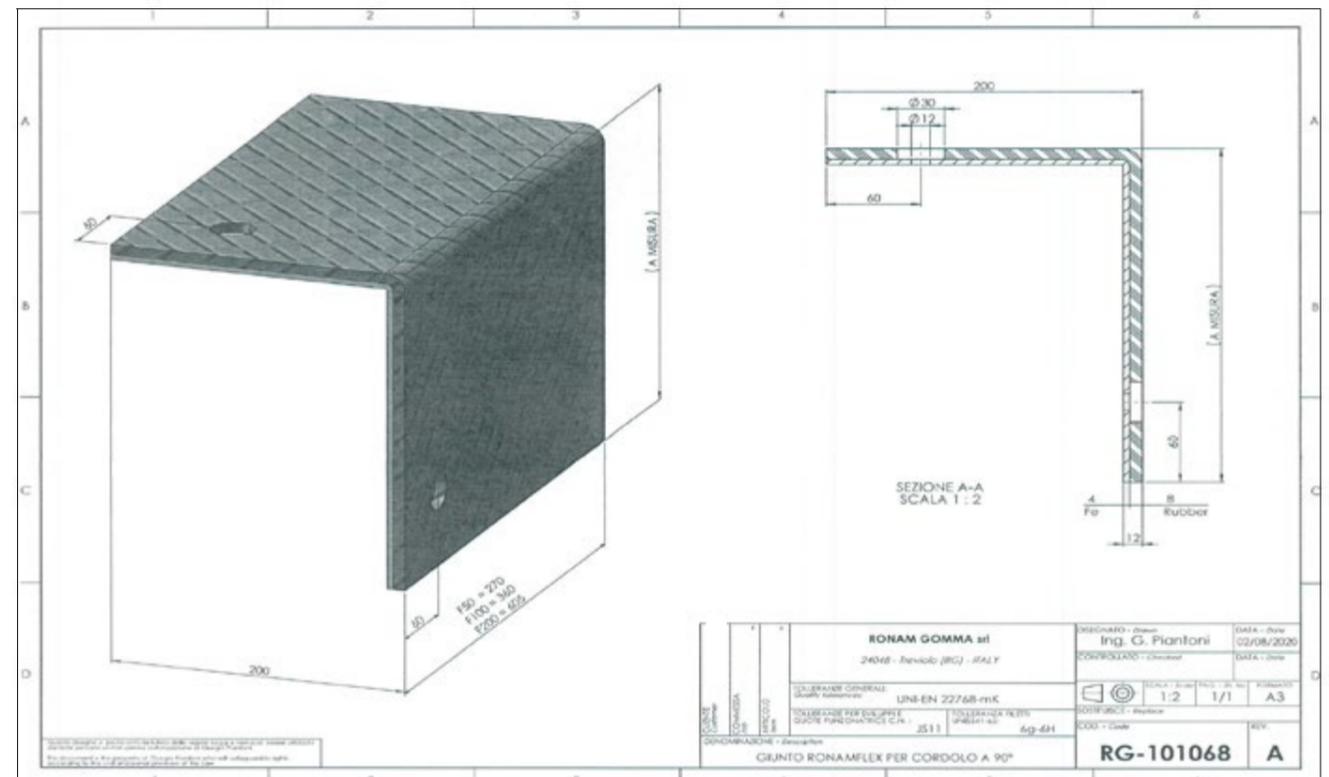
It is composed of **high-strength grooved rubber and S275JR steel sheet, vulcanized and bent at a 90° angle** to ensure optimal and long-lasting adhesion to the surface.

This technical solution ensures protection, continuity, and mechanical strength at the curb edge, even under heavy traffic and aggressive weather conditions.

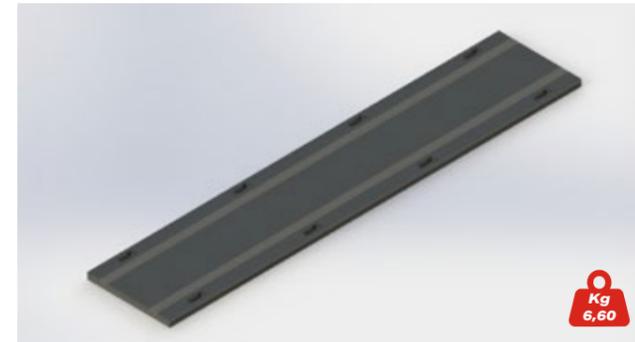
RUBBER PROPERTIES	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI
Nominal Hardness	Shore A3	60	868
Hardness Field	Shore A3	55+65	
Specific Hardness Tolerance	Shore A3	± 5	
Breaking Load	N/ mm ²	> 15,5	6065
Elongation at Break	%	> 450	6065
Last deterioration after compression of 25% 24 h 70°	%	< 20	4913
Thermal deterioration after 96 h 70°C maximum hardness variation	Shore A3	± 10	5408

RUBBER PROPERTIES	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI
Maximum resistance at break variation	%	- 15	5408
Maximum variation elongation % at breaking	%	- 20	5408
Ozone resistance (50 p.p.c.m. 20% elongation 96 h 40°C)		no cracks	6067-6068
Fragility limit temperature	°C	< - 25	7320
Rubber-metal attack	N/mm	> 10	5405
G Modulus	N/mm ²	0,9	EN 1337-3 : 2005
Tolerance Modulus	%	± 15	

PROPERTIES OF S275JR STEEL	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI EN
Tensile strenght at break	N/ mm ²	R > 430	10025
Exhaustement tension	N/ mm ²	Rs > 275	10025
Elongation at break	%	A > 23%	10025



OPERATIONAL EXPANSION ± 10
RGJ20
UNDERPAVEMENT JOINT
 RONAMFLEX expansion joints are manufactured in compliance with EU regulations.



The **RGJ20 under-pavement joint** is compliant with European regulations and engineered to perform key functions in infrastructure applications. It serves as a flush expansion joint cover, allows relative movements between two decks, prevents rainwater infiltration through the gap, and guarantees structural continuity of the pavement.

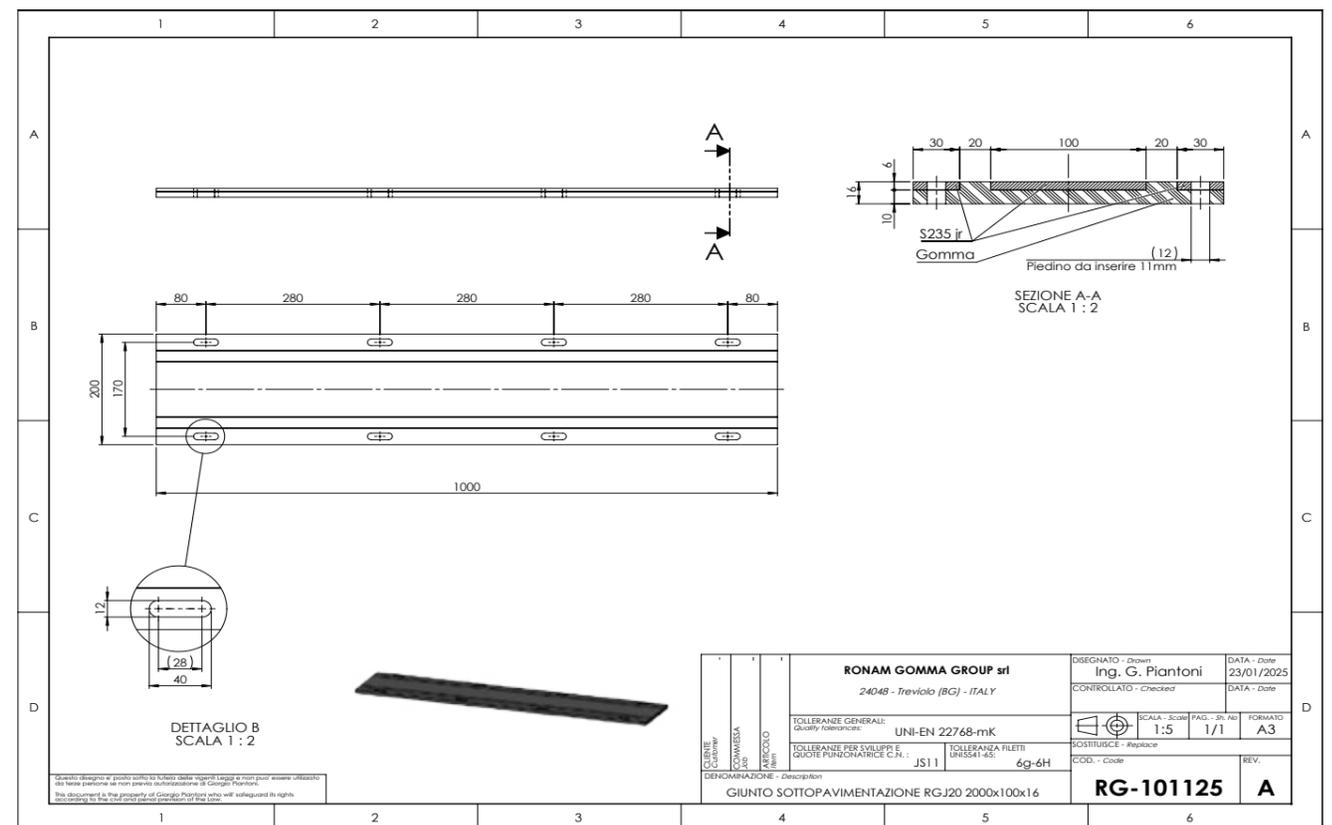
The reinforcements are made of **S275JR steel, cold-rolled according to UNI 7070**, with **rubber-to-steel adhesion greater than 10 N/mm**.

The anchoring of the components is achieved using galvanized steel threaded rods with anti-loosening system, fixed with epoxy resin to ensure perfect integration into the structure.

RUBBER PROPERTIES	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI
Nominal Hardness	Shore A3	60	868
Hardness Field	Shore A3	55+65	
Specific Hardness Tolerance	Shore A3	± 5	
Breaking Load	N/ mm ²	> 15,5	6065
Elongation at Break	%	> 450	6065
Last deterioration after compression of 25% 24 h 70°	%	< 20	4913
Thermal deterioration after 96 h 70°C maximum hardness variation	Shore A3	± 10	5408

RUBBER PROPERTIES	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI
Maximum resistance at break variation	%	- 15	5408
Maximum variation elongation % at breaking	%	- 20	5408
Ozone resistance (50 p.p.c.m. 20% elongation 96 h 40°C)		no cracks	6067-6068
Fragility limit temperature	°C	< - 25	7320
Rubber-metal attack	N/mm	> 10	5405
G Modulus	N/mm ²	0,9	EN 1337-3 : 2005
Tolerance Modulus	%	± 15	

PROPERTIES OF S275JR STEEL	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI EN
Tensile strenght at break	N/ mm ²	R > 430	10025
Exhaustement tension	N/ mm ²	Rs > 275	10025
Elongation at break	%	A > 23%	10025





RONAMFLEX Vulcanization Process



Seismic Elastomeric Isolators **RG/ELASTOSISM**

The **RG/ELASTOSISM elastomeric seismic isolators** are high-performance devices used to protect structures from earthquake-induced damage.

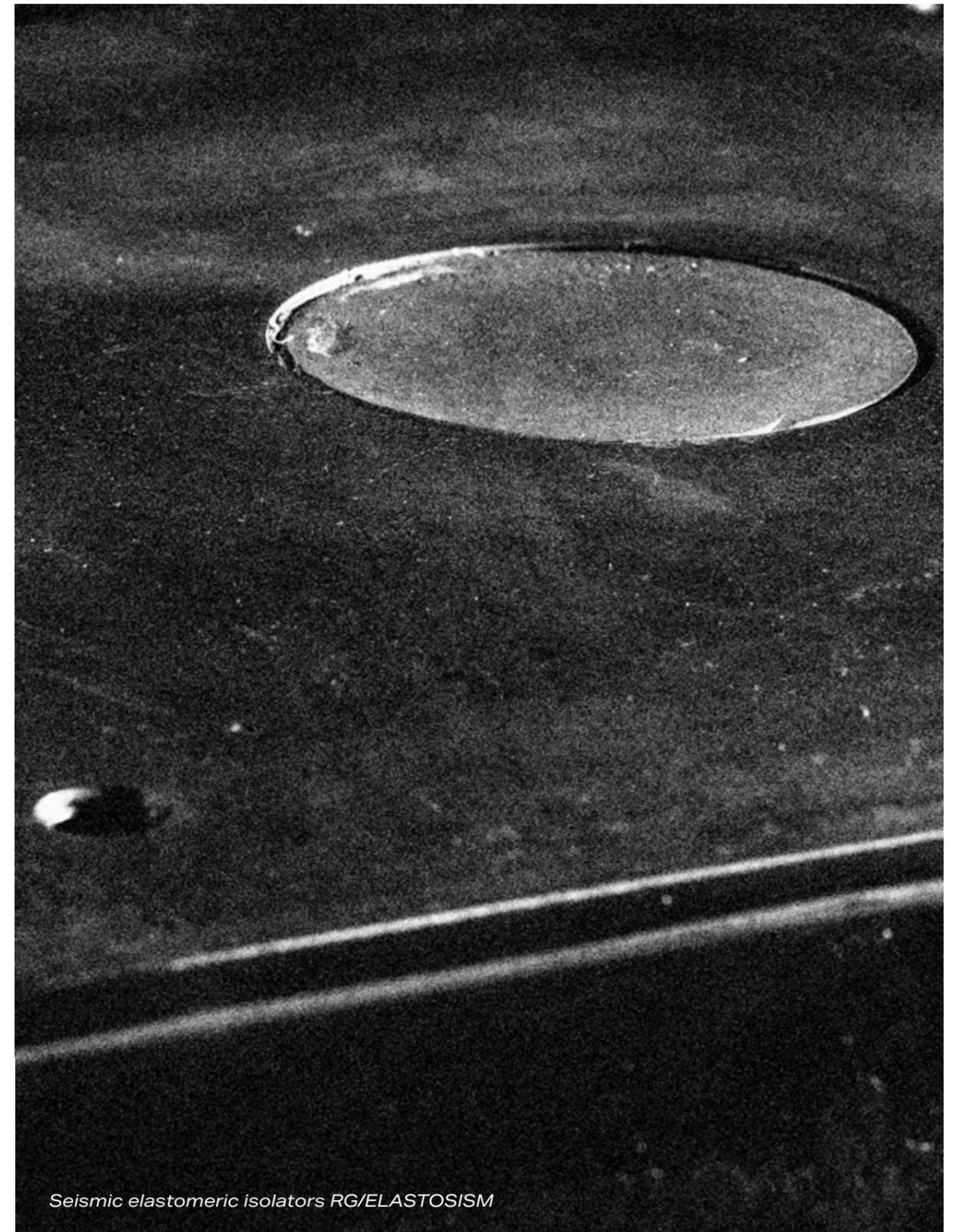
They are composed of alternating layers of **natural rubber (NR)** and **S235JR steel**, with a **central lead core**, providing in a single solution seismic isolation, energy dissipation, and structural support.

Thanks to their ability to reduce the transmission of seismic forces and to re-center the structure after the event, they represent a compact and effective solution for **both new buildings and seismic retrofitting projects.**

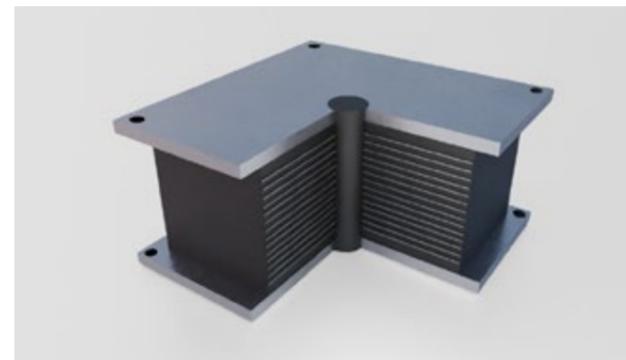
The devices are designed to ensure maximum efficiency even in limited spaces, with high durability and easy maintenance.

The steel plates are fully embedded in the elastomer, **providing corrosion protection and structural strength.** The two outer connection plates facilitate installation, while optional anchoring plates simplify maintenance and replacement of the device.

Under normal conditions, these devices behave like standard elastomeric bearings, **activating seismic protection only in the event of an earthquake.**



Seismic elastomeric isolators RG/ELASTOSISM



SEISMIC ELASTOMERIC ISOLATORS **RG/ELASTOSISM**

The RG/ELASTOSISM elastomeric seismic isolators are manufactured in accordance with EU regulations.

MECHANICAL AND PHYSICAL CHARACTERISTICS OF LOW-DAMPING ELASTOMERS	REQUIREMENTS			TEST METHODOLOGY
Shear modulus (MPa)	0,3≤G≤0,7	0,7≤G≤1,1	1,1≤G≤1,5	63 ± 3
Tensile strength (MPa), min. Specimens from plate Specimens from bearing		16 14		ISO 37 Type2
Elongation at break (%), min. Specimens from plate Specimens from bearing	450 400	425 375	350 300	ISO 37 Type2
Tear resistance (kN/m), min.	5	8	10	ISO 34 Method A
Residual compression set at 70°C, 24h, max.	30	30	30	ISO 815 Type A 25% compression
Ozone resistance 30% elongation – 96h at 40°C ± 2°C	Absence of cracks	Absence of cracks	Absence of cracks	ISO 1431-1
Accelerated ageing in air oven Maximum variation from initial value: Hardness (IRHD) Tensile strength (%) Elongation at break (%)	-5,+8 ±15 ±25	-5,+8 ±15 ±25	-5,+8 ±15 ±25	ISO 188 Method A ISO 48 ISO 37 Type2

HOT-ROLLED STEEL S235JR UNI EN 10025 (FE360)	
POISSON COEFFICIENT	0,3
ELONGATION MODULUS	206000 N/mm ²
MASS DENSITY	7850 Kg/m ³
UNIT BREAKING LOAD	360 N/mm ²
% ELONGATION AT BREAK	26%
UNIT EXHAUSTEMENT LOAD	235 N/mm ²
UNIT ACCEPTABLE LOAD	160 N/mm ²





Elastomeric Seismic Restraint **RG/RONAMSISM**

Elastomeric anti-seismic systems, when used with concrete shear keys and positioned at the top of piers or abutments, **are designed to limit the deck movement in the event of bearing separation during a seismic event.**

The reinforced rubber pad dissipates part of the seismic energy and mitigates impulsive forces thanks to its deformability.

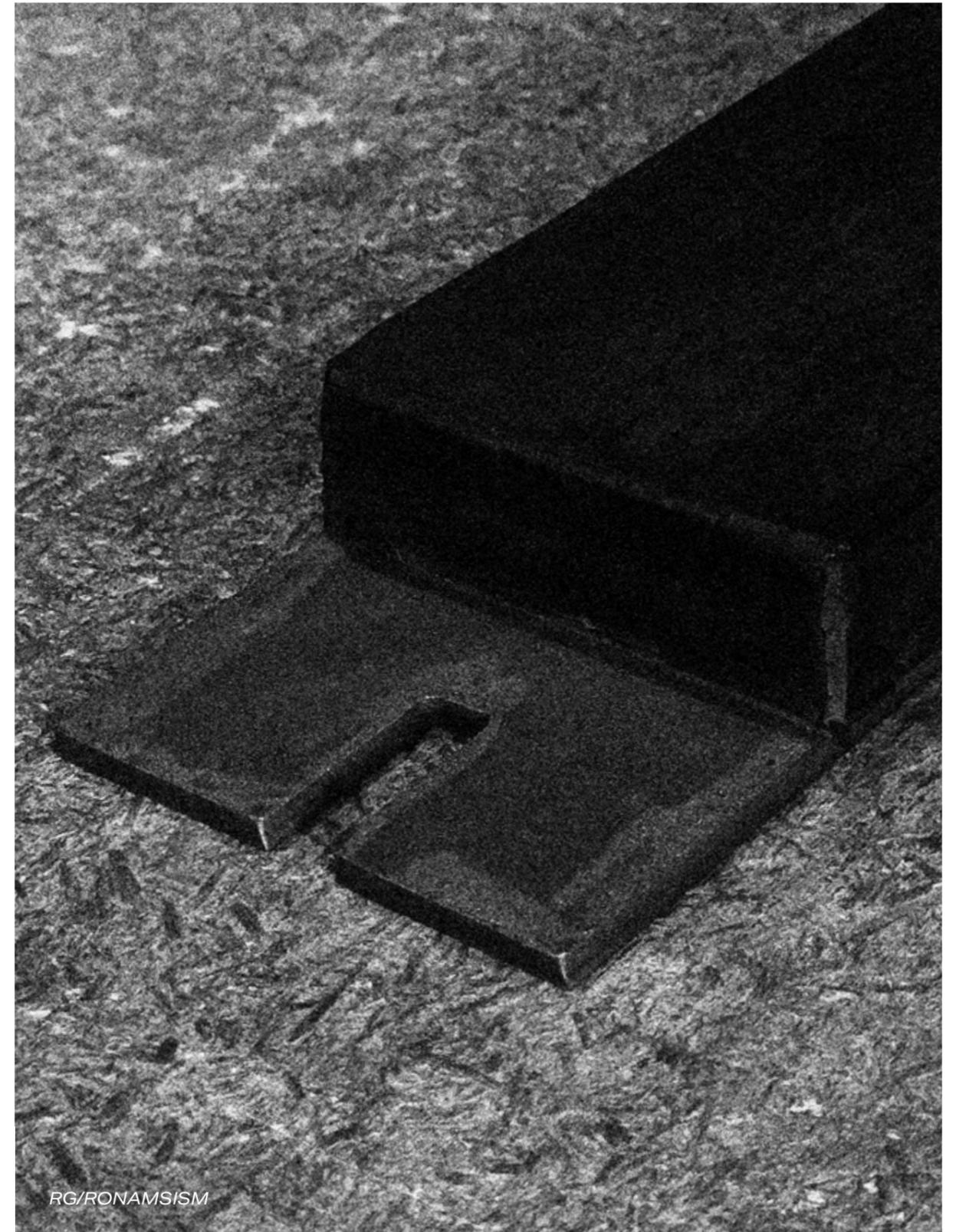
The system includes a support plate **S275JR steel** with slotted holes for easy fastening using anchor bolts or expansion plugs, thereby simplifying maintenance operations.

The elastomeric pad (**in rubber compliant with UNI EN 1337-3**) is vulcanized to the plate and internally reinforced with steel shims.

Fixed mechanical anti-seismic devices **are used to connect moving elements to fixed structures, ideal for bridges and viaducts.**

These systems relieve the bearings from the task of absorbing horizontal loads caused by seismic events.

The double-pendulum hinge configuration allows freedom of movement and accommodates deflections or settlements.



RG/RONAMSISM



RONAMSISM ELASTOMERIC SEISMIC RESTRAINTS

The RONAMSISM elastomeric seismic isolators are manufactured in accordance with EU regulations.

MODEL	LENGTH L (MM)	WIDTH H (MM)	THICKNESS S (MM)	CUSHION LENGTH LG (MM)	LOAD CAPACITY (KN)
RS30	400	120	25	300	300
RS50	450	120	25	350	500
RS75	500	150	25	400	750
RS100	600	150	25	500	1000
RS150	700	200	25	600	1500
RS200	800	200	25	700	2000

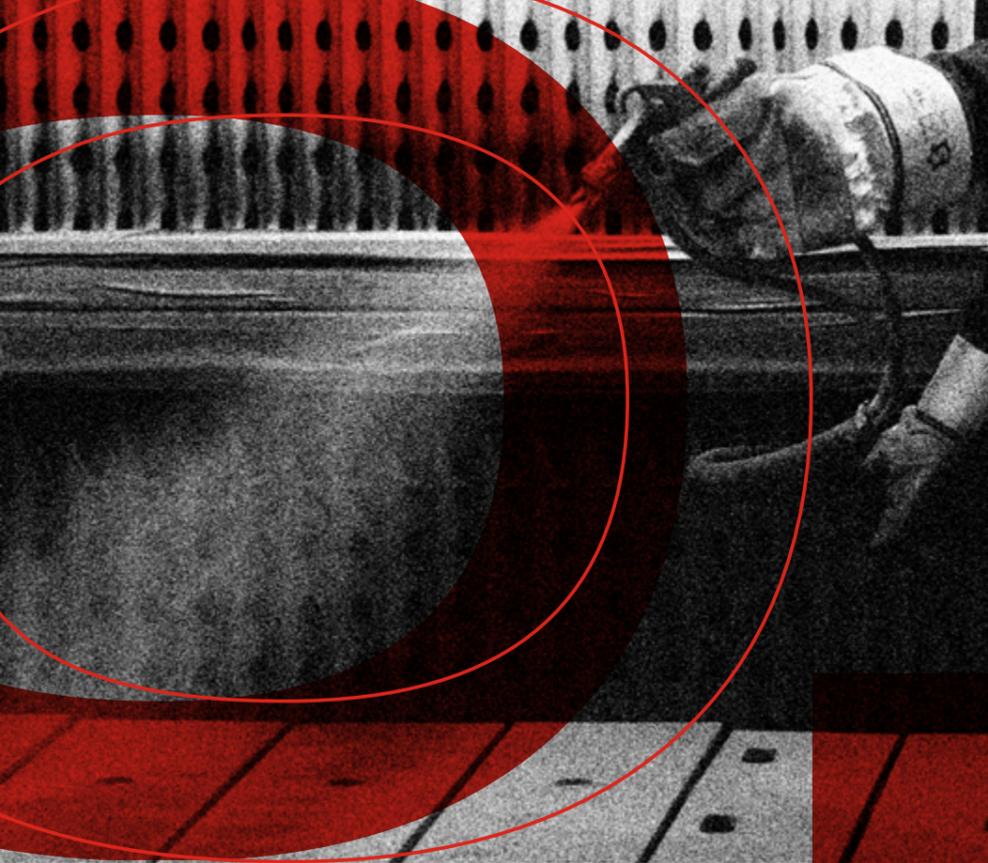
MATERIAL PROPERTIES

HOT-ROLLED STEEL S235JR UNI EN 10025 (FE360)	REQUIREMENTS
Mass Density	7850 Kg/m ³
Unit Breaking Load	360 N/mm ²
% Elongation at Break	19,8%

NATURAL RUBBER (UNI EN 1337-3)	REQUIREMENTS
Nominal Hardness	60 +/- 5 Shore A3
Resistance at Break	≥16,00 MPa
Mass Density	1200 Kg/m ³
G Modulus	0,9 MPa
% Elongation at Break	≥425%



Neoprene Cutting Process



RUBBER Sheets

Our **Rubber Sheets** are ideal for industrial applications requiring high-performance and durable materials, thanks to carefully selected compounds and manufacturing processes, we offer solutions that meet the demands of even the most challenging uses.

The properties of our rubbers make them especially suitable for resisting a wide range of stresses: from chemical agents such as oils, greases, fuels, acids, and solvents, to physical factors like high and low temperatures, electrical exposure, and extreme conditions.

Our rubbers are also **resistant to mechanical agents** like abrasion, compression, and repeated stress, as well as natural elements

such as sunlight, ozone, and saline environments.

We offer various types of rubber, each with specific characteristics to meet the needs of different sectors.

Natural rubber (NR) is flexible and tough, suitable for a wide range of applications.

Synthetic rubber SBR is particularly suited for applications requiring moderate resistance to chemical and physical agents.

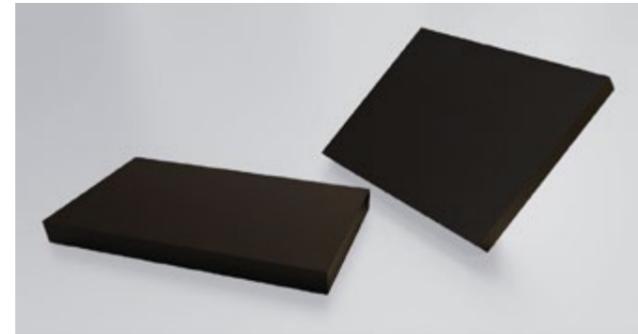
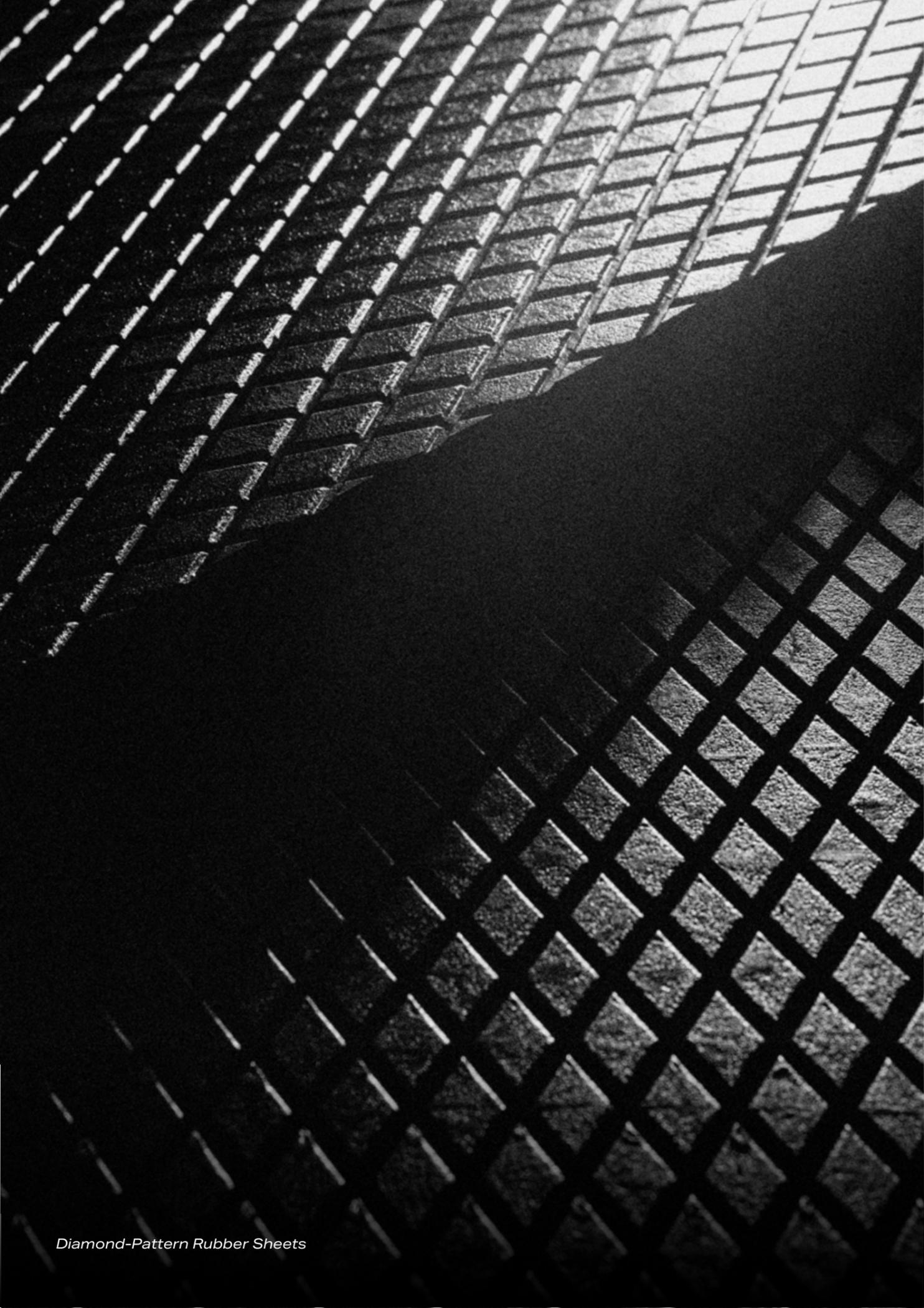
NBR rubber, also known as oil-resistant rubber, is ideal for environments with exposure to oils and fuels. For resistance to weathering and degradation, **neoprene rubber (CR)** is the optimal choice.

For more demanding applications, **EPDM rubber** offers excellent resistance to chemicals and extreme temperatures, while **silicone (SI)** is perfect where high elasticity is needed even at very high temperatures.



Rubber Sheets





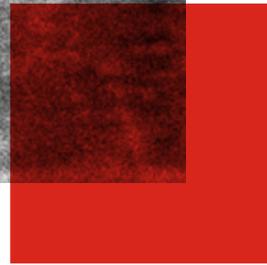
RUBBER SHEETS

Summary Table

BASE ELASTOMER	SHEET TYPE	SPECIFIC WEIGHT G/CM ³	HARDNESS SHA	TENSILE STRENGTH N/MM ²	ELONGATION AT BREAK %	TEMPERATURE °C	
						MIN.	MAX.
SG	Industrial SG - CT	Rubber 1.46	70	4	200	-10	+70
	Industrial SG - CT	Rubber 1.75	60	4	400	-15	+70
RG	Anti-abrasive E/1319/ID	1.18	60	15	400	-20	+70
	Anti-abrasive S/1313/ID	1.15	60	17	400	-20	+70
	Anti-abrasive S/BLACK-STAR	1.15	60	15	400	-20	+70
	Anti-abrasive S/BLACK-STAR VKS (CL adesivo)	1.15	60	15	400	-20	+70
	Anti-abrasive C/T60	1.13	60	17	450	-20	+70
	Anti-abrasive C/AB60	1.14	60	17	400	-20	+70
	Anti-abrasive ABRART	1.15	60	16	400	-20	+70
NR	White food-grade NR	1.55	55	7.5	400	-15	+80
NR/SBR	Paraelastic	1.05	42	18	600	-40	+70
NR	Paraelastic super	0.95	35	20	600	-40	+70
	Fine Para	0.95	35	20	600	-40	+80
	Coated Para	1.10	40	20	650	-35	+80
NR	Super racloprema	1.00	40	20	600	-35	+80
NR/SBR	Nitrile SG - NBR	1.45	70	7.5	250	-20	+90
NBR	Petrol-resistant Nitrile S	1.40	70	13.5	300	-20	+100
	Petrol-resistant Nitrile TR	1.25	70	15	350	-25	+105
	Food-grade Nitrile	1.50	60	8	300	-20	+100
CR/CBR	Neoprema SG - CR	1.38	60	5	300	-10	+70
CR	Antistatic NPA neoprema	1.50	60/70	15	350	-20	+110
EPDM	EPDM	1.23	70	9	300	-40	+100
	High-content EPDM	1.15	70	9	400	-40	+120



QUARRYS
DONILETS



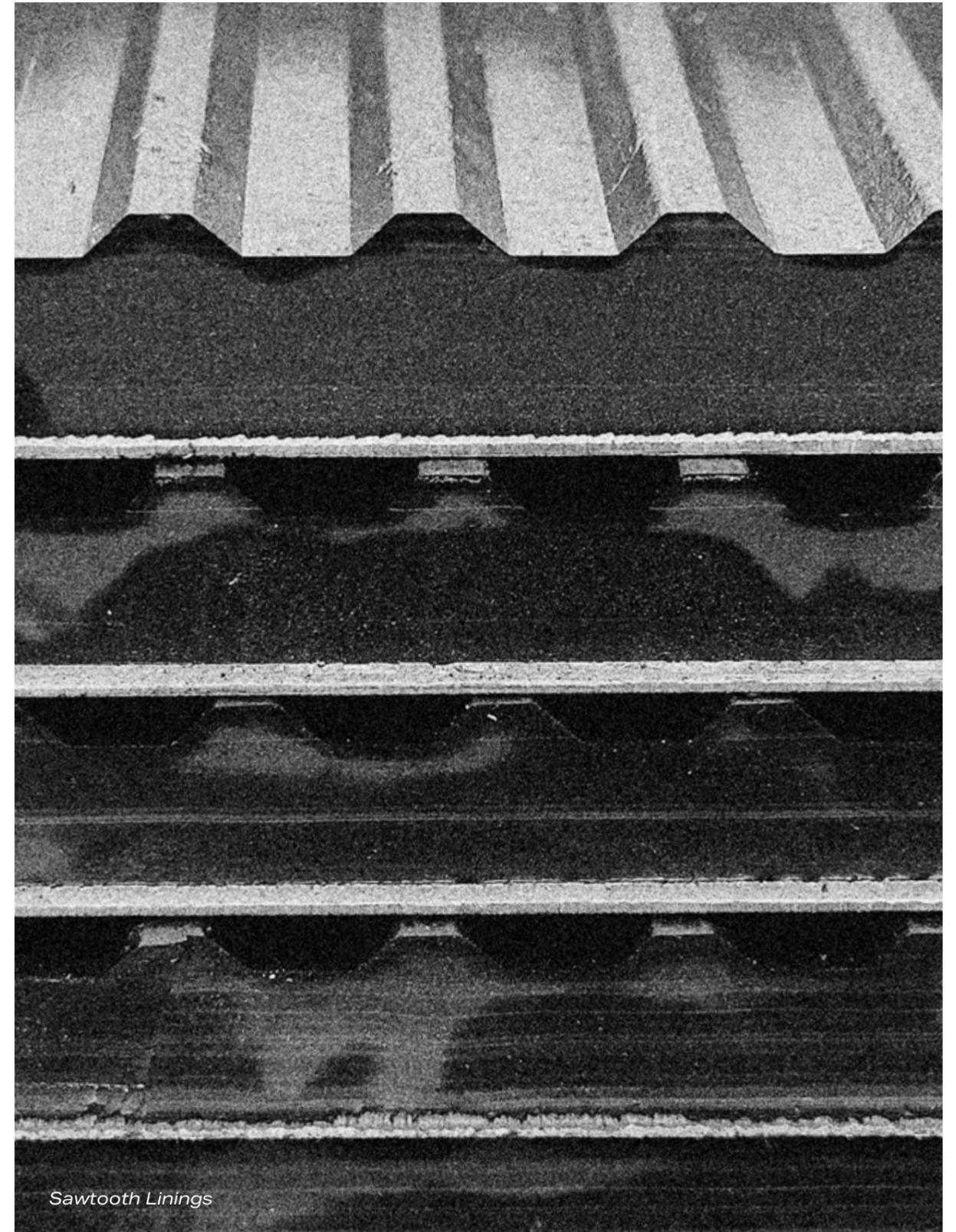
Rubber-coated Steel Plates **RGL 60**

RGL60 rubber-coated steel plates consist of a steel sheet backing covered with a vulcanized anti-abrasion rubber layer, making them ideal for protecting surfaces subject to heavy wear. These

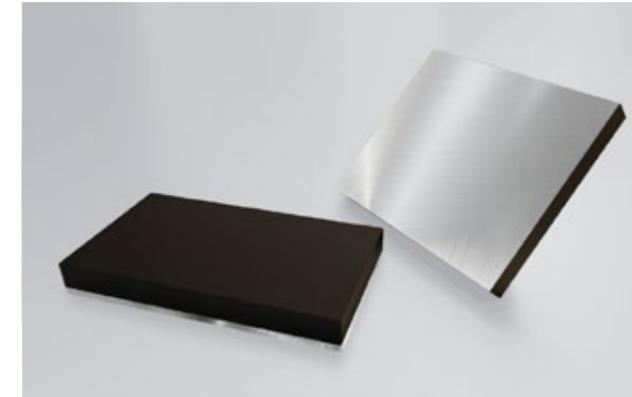
coatings are widely used in industrial settings such as hoppers, chutes, silos, and bins, where abrasive materials can damage metal structures.

The use of RGL60 ensures longer lifespan of the coated surfaces, allows for quick installation, reduces unwanted material build-up, and contributes to noise reduction during operation.

The plates can be custom-made according to the Client's drawings, ensuring perfect integration into different system.



Sawtooth Linings



RGL60
RUBBER-COATED
STEEL PLATES

RUBBER THICKNESS (G)	STEEL PLATE THICKNESS	SIZE
5	2	1000X2000
5	2	1250X2500
8	2	1000X2000
8	2	1250X2500
10	2	1000X2000
10	2	1250X2500
12	2	1000X2000
12	2	1250X2500
15	2	1000X2000
15	2	1250X2500
20	2	1000X2000
20	2	1250X2500
30	3	1000X2000
30	3	1250X2500
50	3	1000X2000
50	3	1250X2500

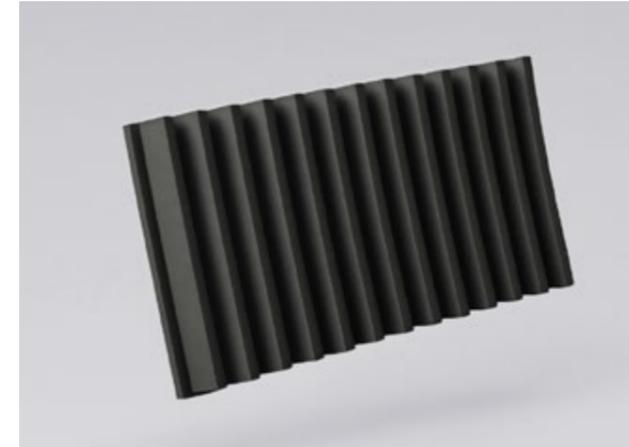
Production available in other formats and thicknesses or according to customer-supplied drawings.

PROPERTIES OF ABRASION-RESISTANT RUBBER	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI
Hardness	Shore	63 ± 3	868:2005
Density	g/cm ³	1,16 ± 0,02	1183:2005
Elongation	%	≥ 450	6065:2001
Tensile strength	kg/cm ²	≥ 165	6065:2001
Modulus 300%	kg/cm ²	≥ 90	6065:2001
Tear resistance	kg/cm ²	≥ 70	4914:1987
Abrasion resistance	mm ³	≤ 100	9185:1988



Diamond - Pattern Rubber Coated Steel Plate

ANTI-ABRASIVE RUBBER
SAWTOOTH PROFILES



The sawtooth linings are produced by vulcanizing anti-abrasion rubber with a toothed profile onto steel plates and are ideal for handling materials in harsh environments. They are commonly used inside hoppers, chutes, silos, and bins, where high resistance to wear and impact from falling material is required.

The use of these components ensures prolonged surface life, facilitates quick installation, reduces material build-up thanks to the anti-clogging effect, and contributes to lower operational noise levels.

The standard size is **500 × 1000 × 3+57 mm**.

RUBBER THICKNESS (G)	STEEL PLATE THICKNESS	SIZE
5	2	1000X2000
5	2	1250X2500
8	2	1000X2000
8	2	1250X2500
10	2	1000X2000
10	2	1250X2500
12	2	1000X2000
12	2	1250X2500
15	2	1000X2000
15	2	1250X2500
20	2	1000X2000
20	2	1250X2500
30	3	1000X2000
30	3	1250X2500
50	3	1000X2000
50	3	1250X2500

PROPERTIES OF ABRASION-RESISTANT RUBBER	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI
Hardness	Shore	63 ± 3	868:2005
Density	g/cm³	1,16 ± 0,02	1183:2005
Elongation	%	≥ 450	6065:2001
Tensile strength	kg/cm²	≥ 165	6065:2001
Modulus 300%	kg/cm²	≥ 90	6065:2001
Tear resistance	kg/cm²	≥ 70	4914:1987
Abrasion resistance	mm³	≤ 100	9185:1988





Rubber Vulcanization Process



RGLF Screening Panels

Ronam Gomma Group was one of the first companies in Italy to develop and manufacture rubber screening panels, specializing in solutions for vibrating and rotary screens. RGLF rubber screens have gradually replaced traditional steel ones due to **their longer service life, reduced downtime, anti-clogging effect from conical holes, and significant noise reduction.**

Each panel is made of a perforated steel sheet with a vulcanized layer of anti-abrasion rubber, calibrated according to hole type. They are ideal for screening coarse materials, offering excellent resistance to abrasion, puncture, and corrosion.

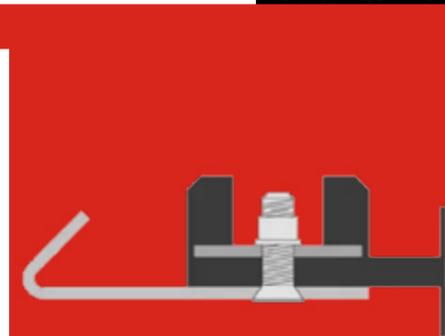
Installation is quick and requires no modifications to the screening equipment.

Hole patterns can be standard or customized based on the Client's design, with options such as **round holes, diagonal squares, straight (90°) squares, staggered square, hexagonal holes, or alternating slots.**

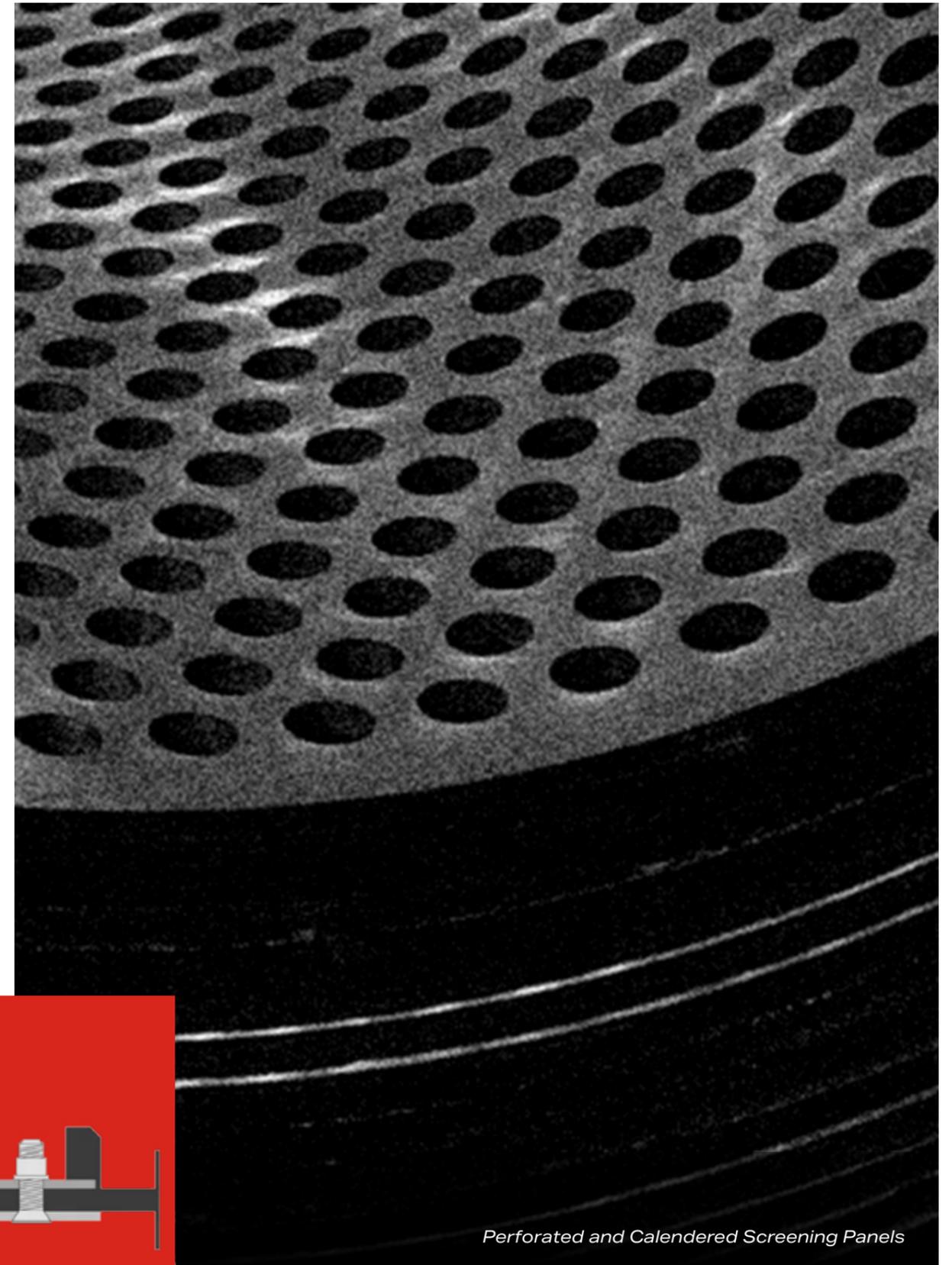
Various hook types integrated into the rubber are available

for longitudinal or transverse tensioning, depending on the type of screening system.

RGLF panels are supplied flat for vibrating screens—with or without hooks—or calendered for rotary screens. Available in multiple configurations and sizes, they are designed to perfectly fit any plant requirements.



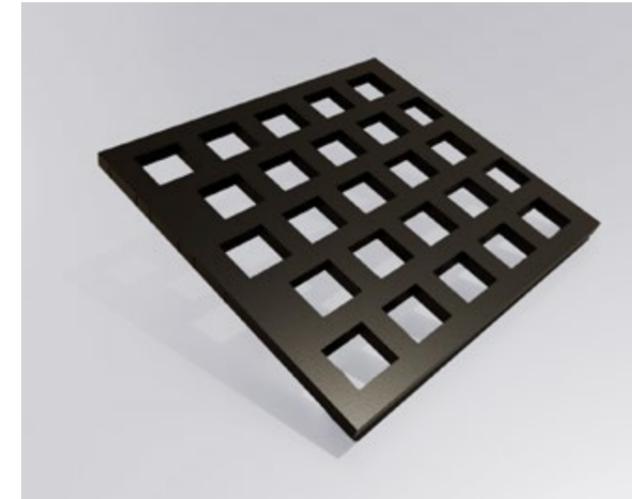
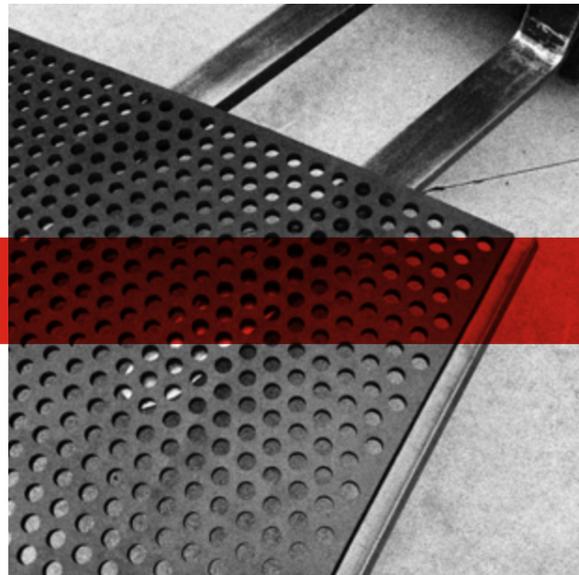
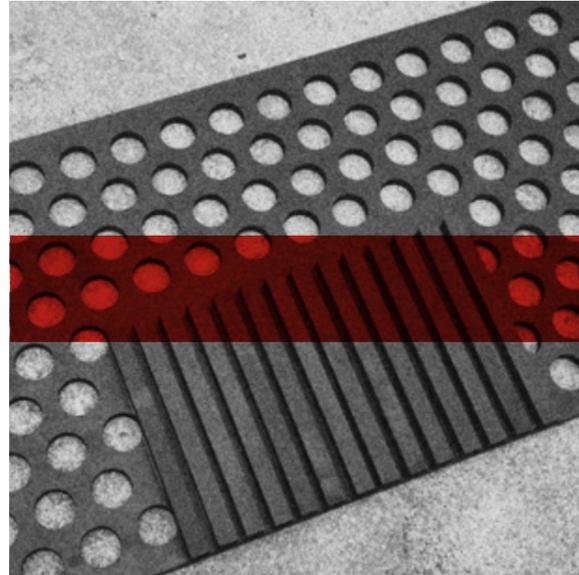
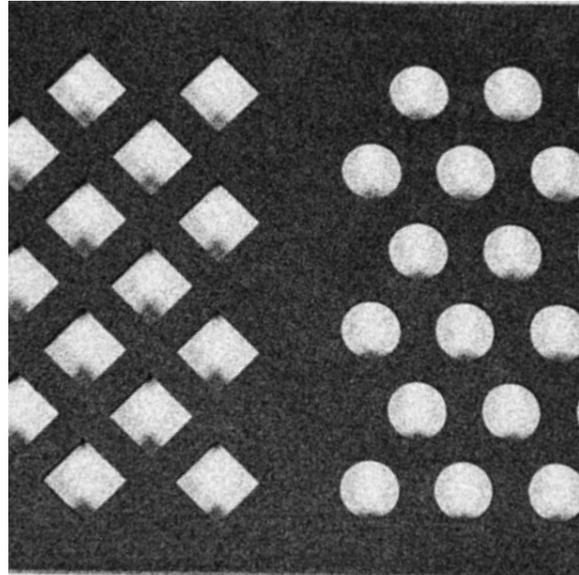
Standard Hook



Perforated and Calendered Screening Panels



Rubber Vulcanization Process

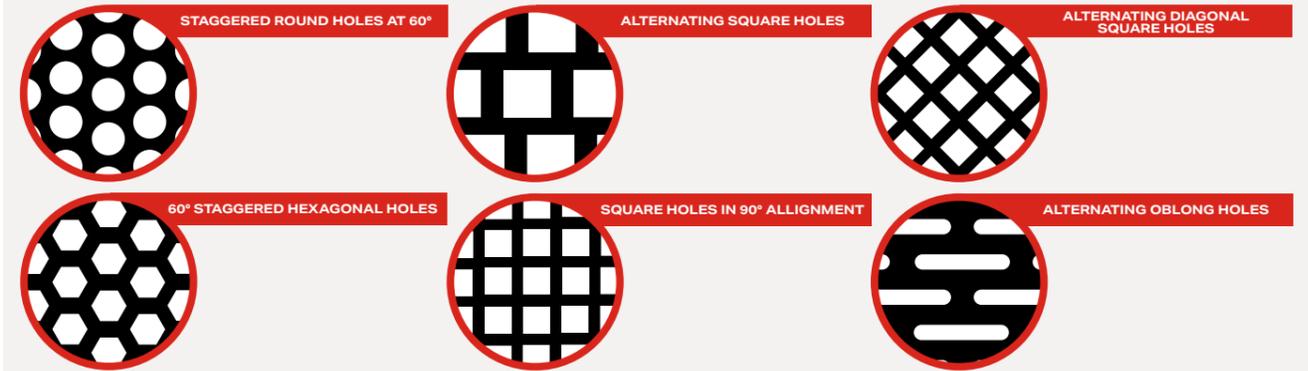


SCREENING PANELS **RGLF**

Properties

- High abrasion resistance
- High puncture resistance
- Easy installation thanks to modular structure and rigidity (no modification of the sieve required)
- Significant noise reduction
- Anti-clogging
- Anti-caking
- Corrosion resistance

WIDE RANGE OF CUSTOM-MADE SCREENS FOR ALL TYPES OF SIEVES

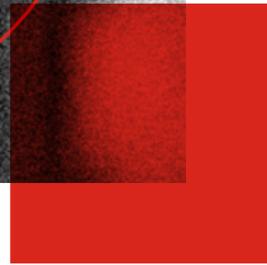


PROPERTIES OF ABRASION-RESISTANT RUBBER	M.U.	REQUIREMENTS	TEST METHODOLOGY UNI
Hardness	Shore	63 ± 3	868:2005
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Modulus 300%	kg/cm ²	≥ 90	6065:2001
Tear resistance	kg/cm ²	≥ 70	4914:1987
Abrasion resistance	mm ³	≤ 100	9185:1988

HOLE WIDTH (F)	METAL THICKNESS (M)	RUBBER THICKNESS (G)	HOLE WIDTH (F)	METAL THICKNESS (M)	RUBBER THICKNESS (G)
40	2/5	8/40	102	4/8	10/50
45	2/5	8/40	105	4/10	20/80
48	2/5	8/40	108	4/10	20/80
50	2/5	8/40	110	4/10	20/80
55	2/5	8/40	115	4/10	20/80
57	2/5	8/40	120	4/10	20/80
60	2/5	8/40	125	4/10	20/80
62	2/5	8/40	130	4/10	20/80
65	2/5	8/40	135	4/10	20/80
70	2/5	8/40	140	4/10	20/80
72	4/8	10/50	145	4/10	20/80
75	4/8	10/50	150	4/10	20/80
77	4/8	10/50	155	4/10	20/80
80	4/8	10/50	160	4/10	20/80
85	4/8	10/50	165	4/10	20/80
90	4/8	10/50	170	4/10	20/80
95	4/8	10/50	180	4/10	20/80
100	4/8	10/50	190	4/10	20/80



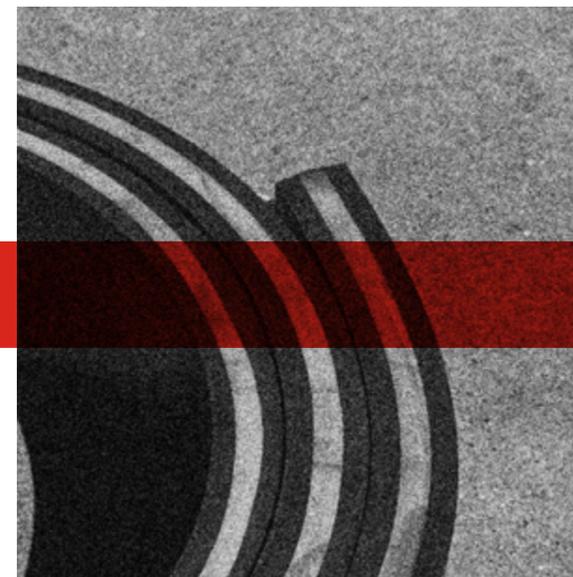
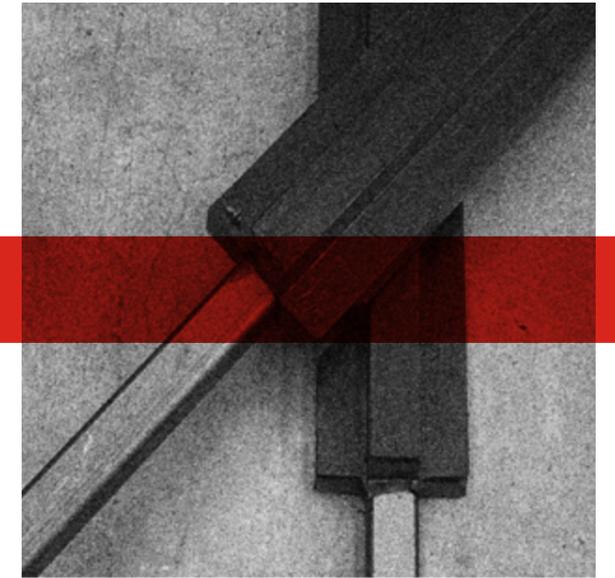
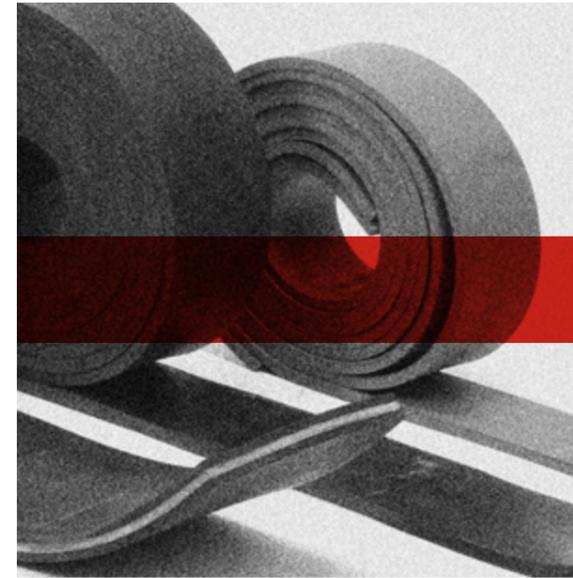
Water Jet Cutting

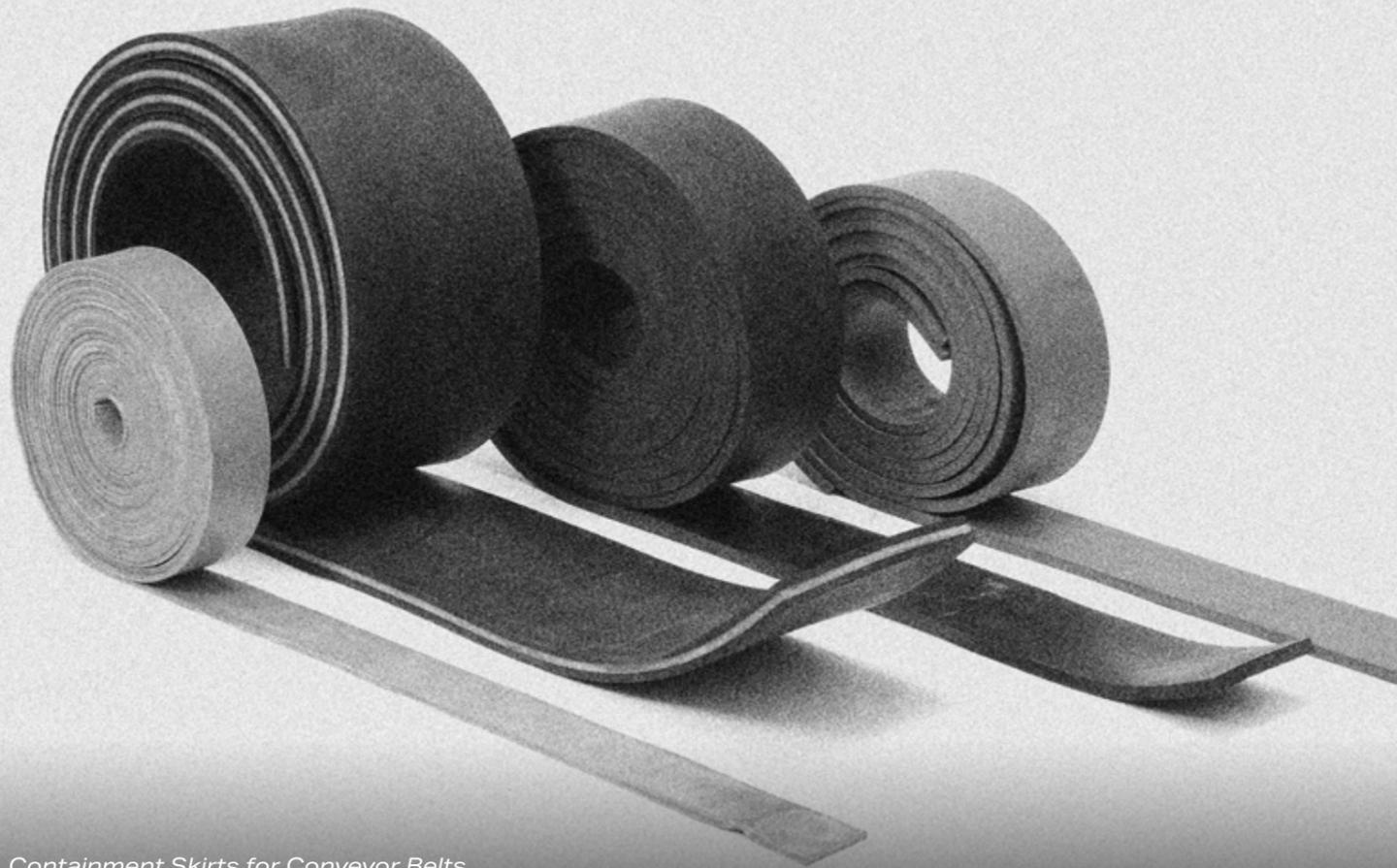


Various MOULDED PRODUCTS and ACCESSORIES

Thanks to our extensive experience and expertise, we provide tailored **solutions for a every industrial requirement.**

We also offer a **wide range of conveyor belt accessories** engineered to deliver **outstanding resistance, durability, and performance**, even under the most demanding working conditions.





Containment Skirts for Conveyor Belts

CONTAINMENT SKIRTS FOR CONVEYOR BELTS

Skirts boards are ideal for material containment and conveyor belt protection.

Manufactured from **black anti-abrasion rubber**, they are

highly resistant to wear, tearing, weathering, and ozone exposure.

Available in various thicknesses—**5 mm, 8 mm, 10 mm, 15 mm, and 20 mm**—the skirting is cut to custom height and length to meet each customer's specific needs.



Cross Scrapers for Conveyor Belts

CROSS SCRAPERS FOR CONVEYOR BELTS

Belt scrapers are essential components for continuous cleaning of conveyor belts, effectively removing powdery or sticky (viscous) materials,

to ensure optimal performance and extend the belt's service life.

Available widths include **400 mm, 500 mm, 650 mm, 800 mm, 1000 mm, and 1200 mm.**



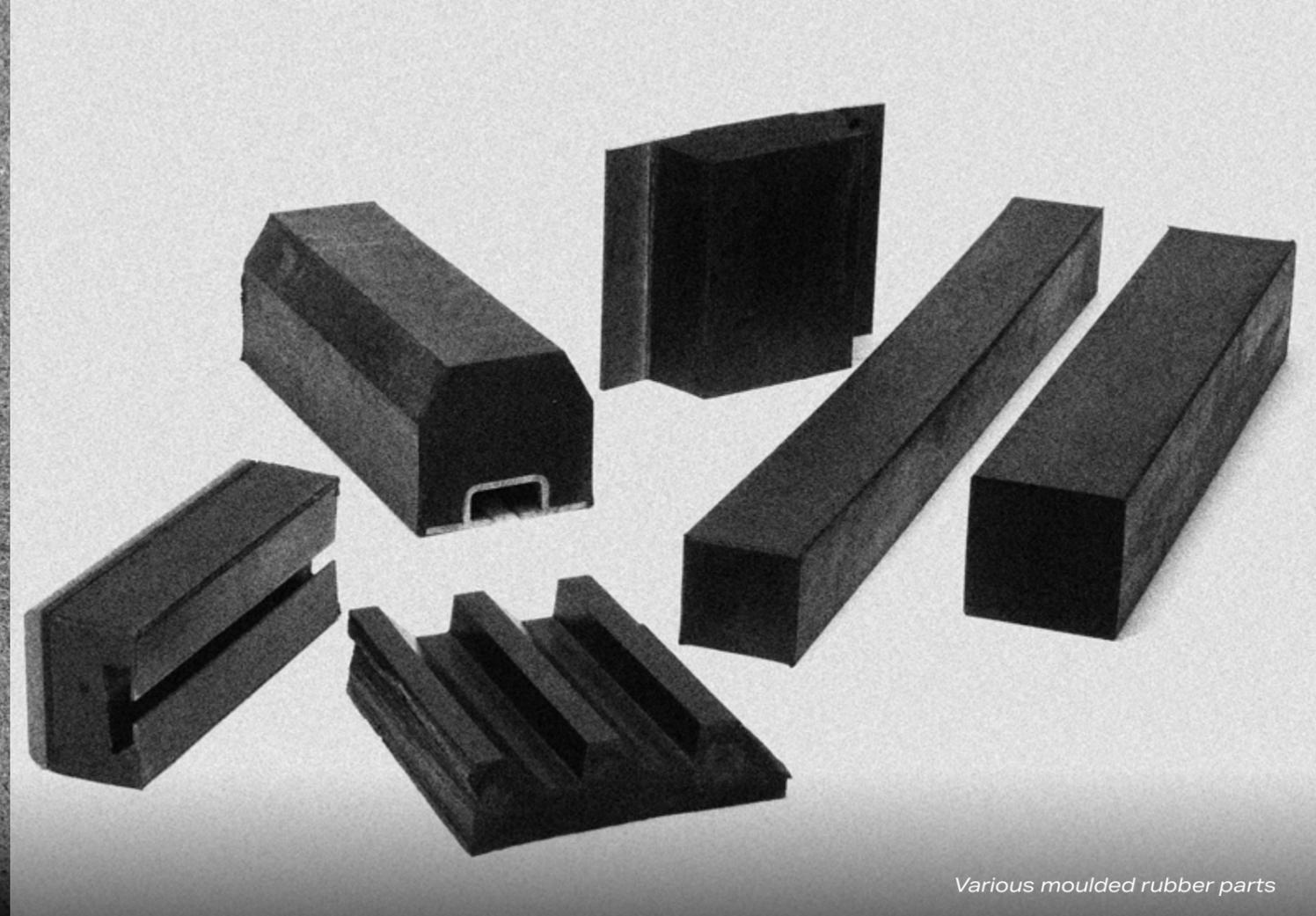
NRN Scrapers for Conveyor Belts

NRN SCRAPERS FOR CONVEYOR BELTS

Our range includes a **special belt scraper** composed of three rubber layers: the top and bottom layers are made from **harder black anti-abrasion rubber**, while the central core is made from **softer red natural rubber**, ensuring excellent durability and uniform cleaning.

ensuring excellent durability and uniform cleaning

We offer standard black rubber scrapers **with available thicknesses of 15 mm, 20 mm, and 30 mm.**



Various moulded rubber parts

VARIOUS MOULDED RUBBER PARTS

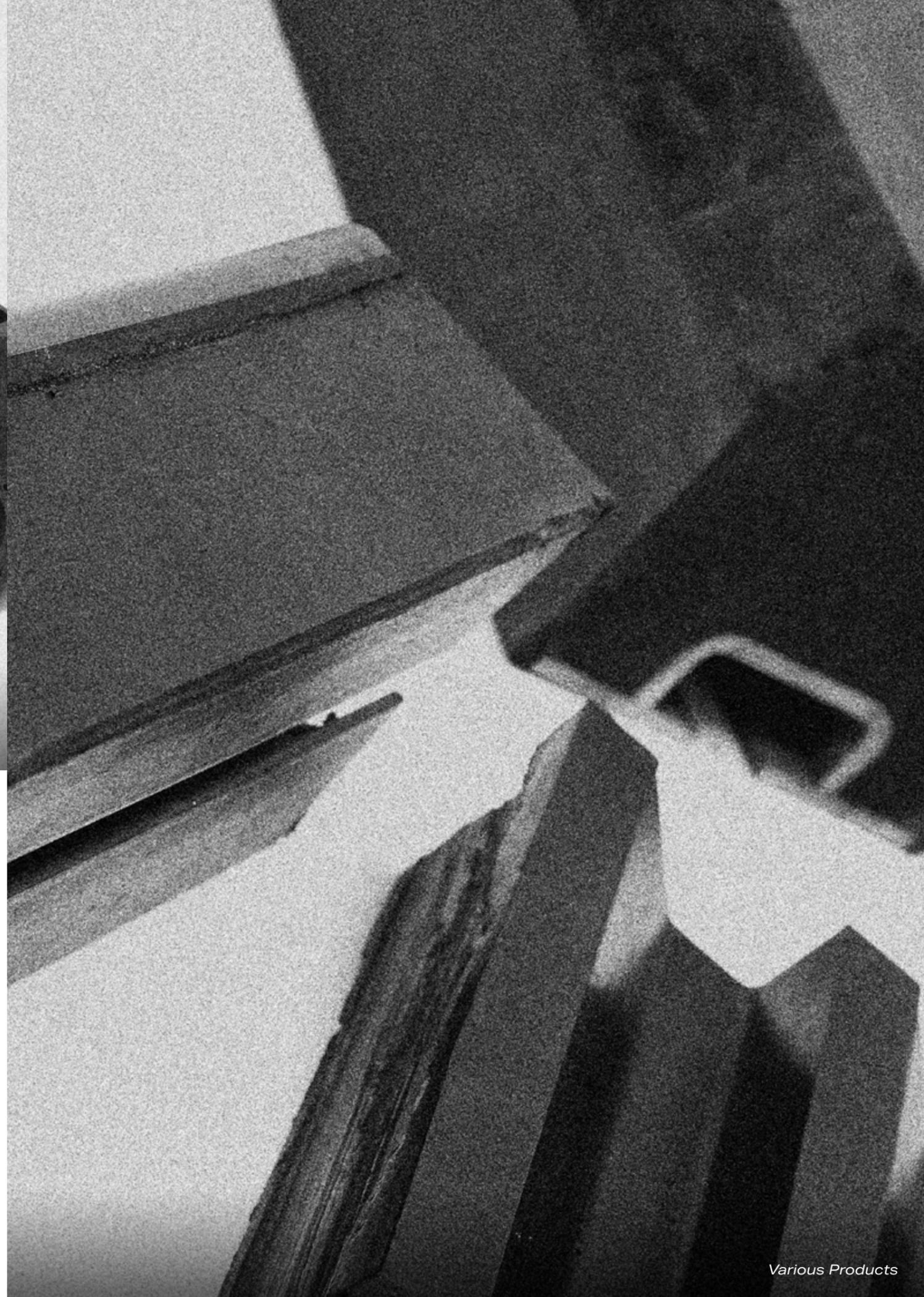
In addition to conveyor accessories, we manufacture a **wide variety of molded rubber parts** in different materials such as **SBR, NR, CR, EPDM, and more.**

Thanks to our in-house expertise, *we can produce custom-moulded or die-cut components based on Customer drawings or specifications.*

Our technical office is available to support you with tailored solutions and quotations.



Various Products



Various Products

OTHER INDUSTRIAL PRODUCTS

We also supply a wide selection of industrial rubber accessories, including:

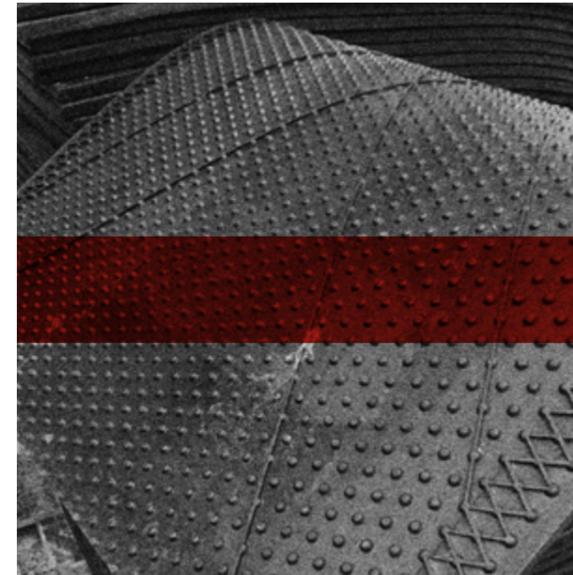
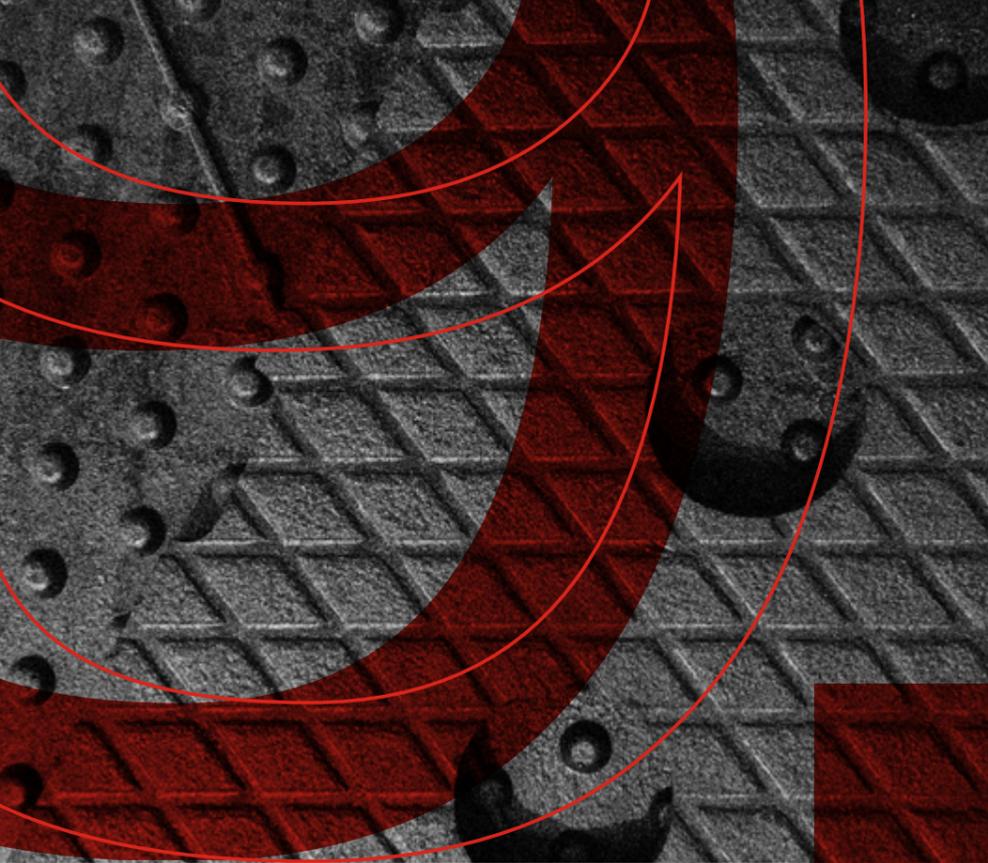
Rubber bumpers for machinery and structural protection

Rubber-to-metal, rubber-to-PTFE, and PTFE-to-metal bonded components

Anti-vibration bars to reduce mechanical vibrations and improve operational comfort



Sheet Metal Painting Process

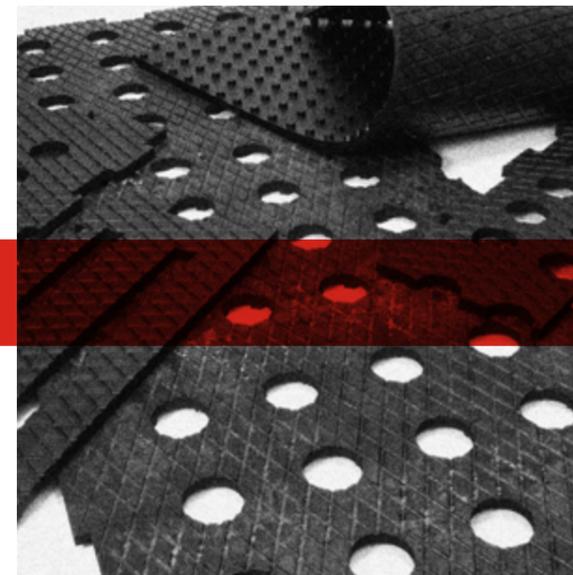


Rubber Flooring and Mattresses: **MATFLEX e VACFLEX**

Stall surfaces coated with high-performance SBR/NR non-regenerated rubber represent today's most advanced

solution to improve animal welfare, reduce management costs, and enhance productivity in dairy farms.

These products, designed for both walking and resting areas, significantly reduce the occurrence of injuries, hoof diseases, and stress caused from contact with hard surfaces. They also help prevent infections such as digital dermatitis and interdigital phlegmon.

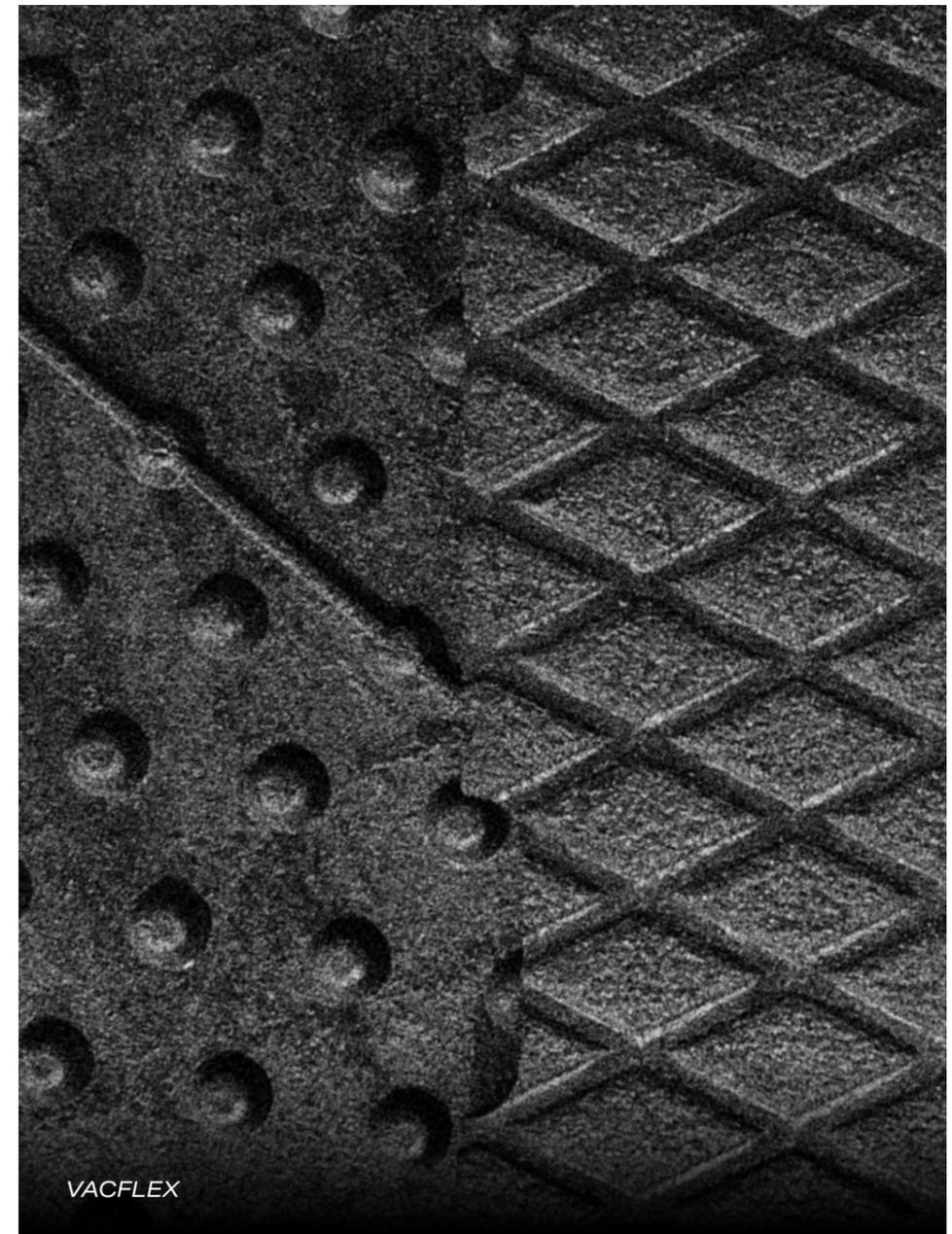




Vacflex rubber flooring mats enhance cow mobility thanks to their elasticity.

They promote a drier, warmer, and non-slip environment while helping to reduce the spread of infections such as digital dermatitis and interdigital phlegmon.

Made in Italy from high-quality materials, they are easy to install on concrete surfaces and have proven to boost productivity while lowering veterinary costs.



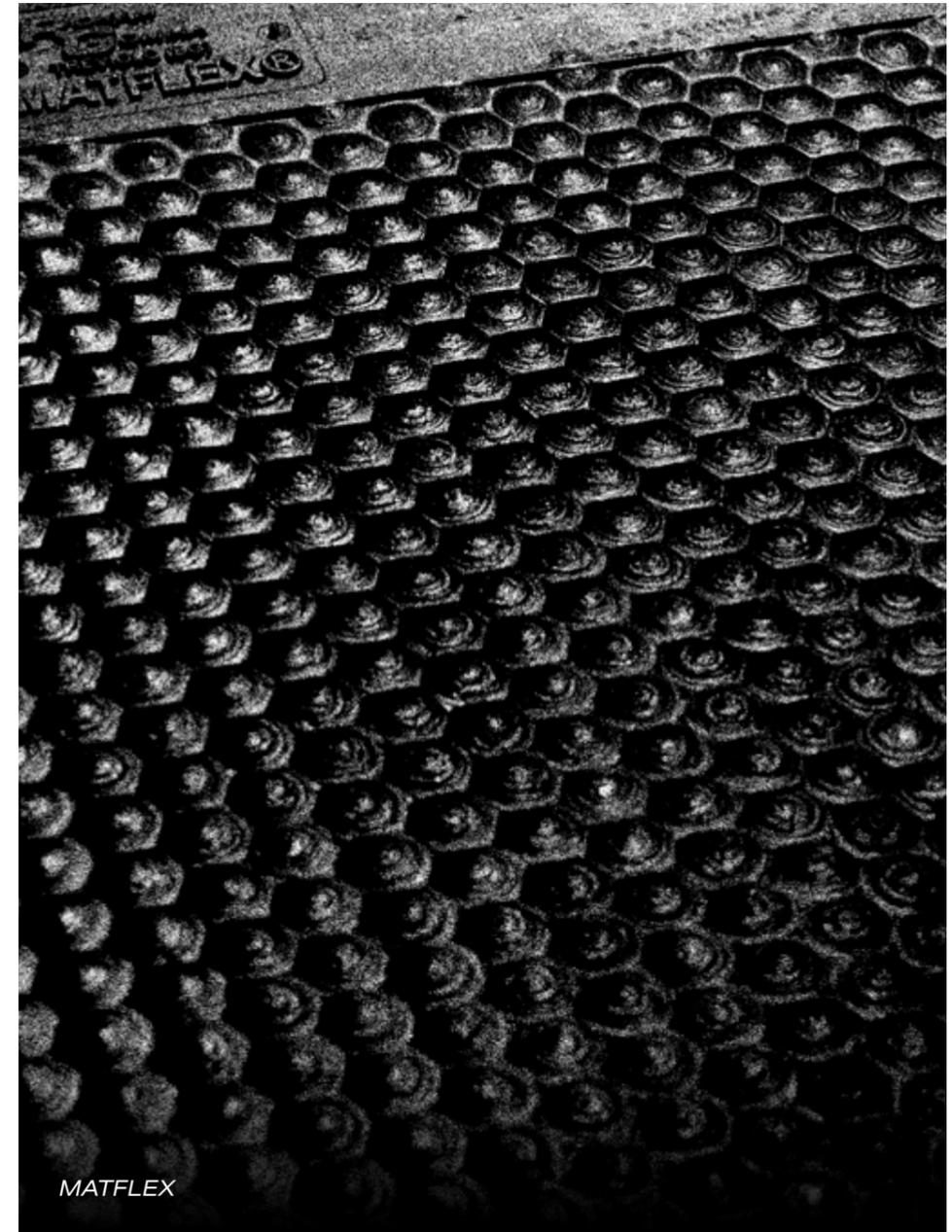
VACFLEX

VACFLEX



Complementing the flooring mats are our **Matflex mattresses** - the only ones entirely made in Italy from SBR/NR non-regenerated rubber. With a thickness of 3 cm, a **non-slip honeycomb-patterned surface**, and **shock-absorbing studs** on the underside, Matflex provides a stable and comfortable resting base. The localized cushioning improves the animal's posture, prevents harmful pressure points, and encourages proper use of cubicles, helping eliminate undesirable behaviours such as laying in alleys.

Matflex mattresses are easy to install manually using a three-hole fastening system. They can be kept dry with a light layer of calcium carbonate or sawdust. The initial investment is typically recouped within just a few months, with farmers reporting improvements in milk quality, herd hygiene, and noticeable reduction in fermentable organic waste.





Compound Cutting

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