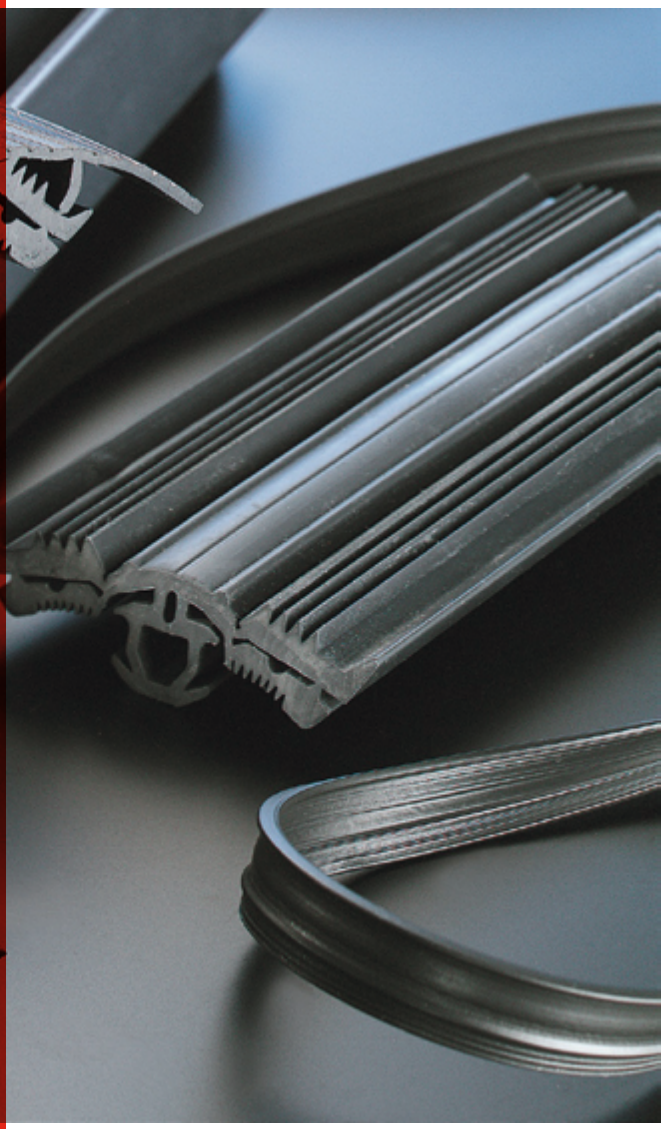
Compounds
rubber solutions

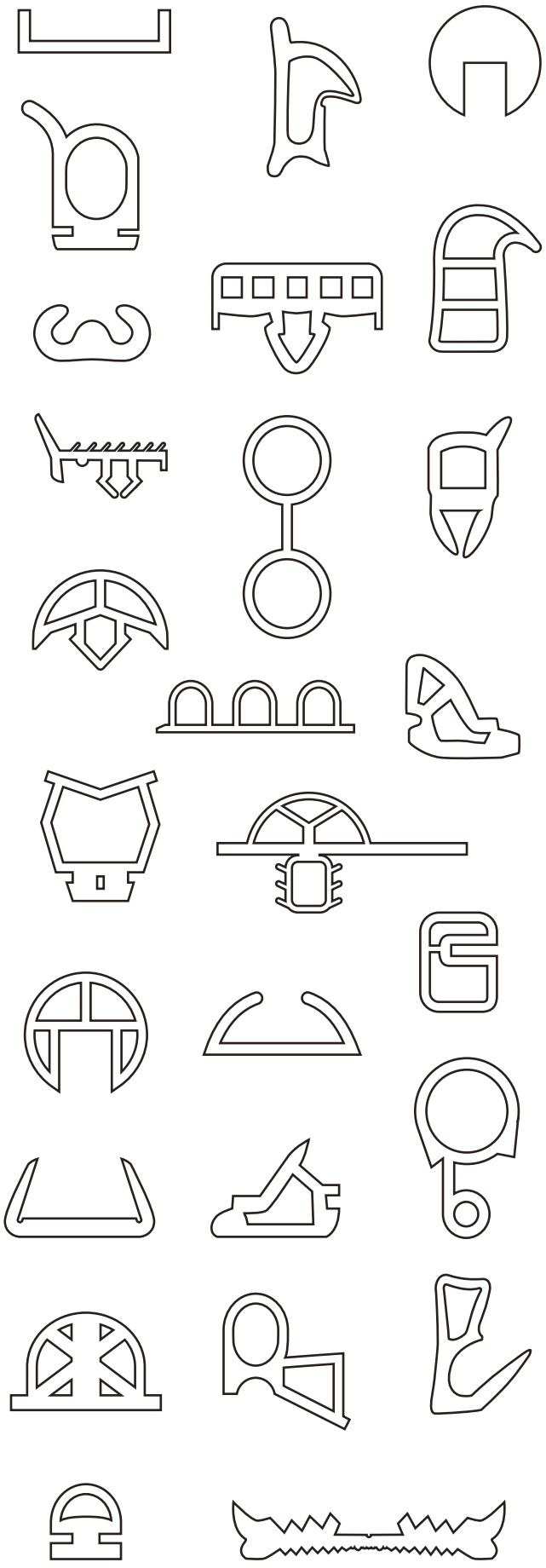


YOUR RECIPE FOR SUCCESS

SWISS MADE

» SPECIAL PROFILES

Noncountinously-produced, steam-vulcanised profiles are a major feature of our product portfolio and expertise.



We have an ideal combination of compounding and profile production know-how. We offer our customers products combining compound development plus finished profile advice.

With our modern machinery, we are perfectly equipped for sophisticated markets that demand high quality standards and short time spans from development stage to mass production.

- Machinery and plant engineering
- Transportation and railway industry
- Electrical engineering and precision instruments
- Energy and water supply
- Chemical industry
- Food industry
- Infrastructure
- Maintenance and repair

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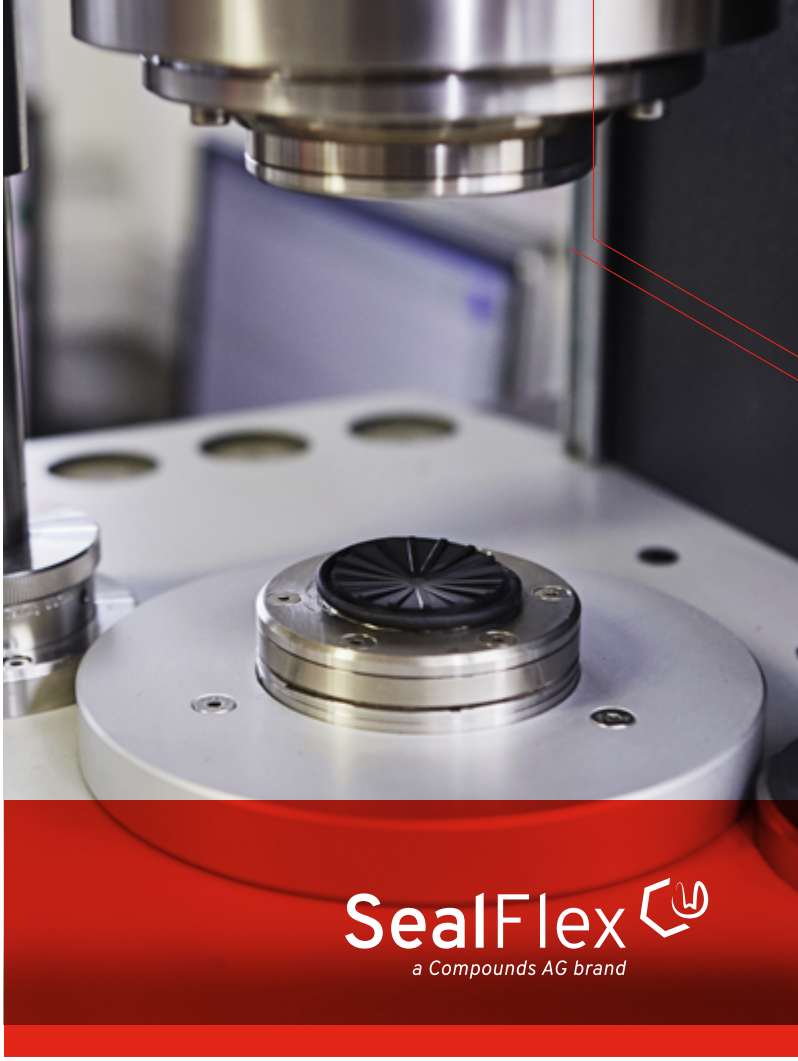

PRODUCTION

Modern equipment and technologies ensure a sustainable production of our sophisticated customised profiles. Our strengths for your individual needs include in-house toolmaking and its adaptation to the specific rubber compound.

The profile tool (die) generates the desired profile contour. The geometry of the profile tool is different from the geometry of the final product, as extrusion causes a swelling of the rubber compound. The production of profile tools therefore requires a lot of experience.

For different applications, rubber profiles can be shot moulded and vulcanised into frames and rings in order to create a joint. These operations also take place by means of injection presses. For this purpose, the finished profiles are first cut in the appropriate lengths and then placed into the vulcanisation mould. A special low viscosity rubber compound is used. This rubber compound is injected into the closed mould and then vulcanised.

Vulcanised frames have clear advantages regarding strength and durability compared to glued frames. Our assembly department can also apply metal valves to inflatable frames or rings.

SERVICES

We develop rubber compounds for special applications in close cooperation with our Customers and provide technical support on-site. Further details available at www.compounds.ch.

RESEARCH AND DEVELOPMENT

The development and production of rubber compounds is one of our major strengths . Our material specialists are constantly involved in the development of new materials and processing technologies. The development of made-to-measure solutions and the efficient management of raw materials are our top priorities.

MEASURING AND TESTING LABORATORY

Modern machines, measuring and testing equipment represent a valid support to research and development activities, as well as to our manufacturing process and also to validation and certification tasks. This way our laboratory can prepare compounds for meeting the various international standards.

QUALITY POLICY

The highest principle for our company is the clear direction of our activity towards the market and its needs. Therefore, we are committed to a comprehensive quality management embracing all areas of our activity.

SPECIFICATIONS

- » Elastomer: Various types of rubber, FKM and AFLAS® compounds depending on specific application
- » Hardness Shore A: All values depending on application
- » Crosslinking: Various types depending on application
- » Processing Method: Noncontinous steam vulcanisation
- » Application: pipe sealing collars, dynamic high-load precision components, inflatable seals, precision round cords in a wide range of elastomers, pre-assembly of special seals and frames
- » Extruder Diameter: 30 mm to 120 mm with flat-sheet die head
- » Profile Dimension: 1.5 mm to 450 mm width
- » Other remarks: straight vulcanisation up to 18 linear meters

TOLERANCES ACCORDING E DIN ISO 3302-1:2016-10

» Tolerances on cross-sectional dimensions of unsupported extrusions

Metric mm

Nominal Dimension		Class E1	Class E2	Class E3
above	to	±	±	±
0	1,5	0,15	0,25	0,40
1,5	2,5	0,20	0,35	0,50
2,5	4,0	0,25	0,40	0,70
4,0	6,3	0,35	0,50	0,80
6,3	10,0	0,40	0,70	1,00
10	16	0,50	0,80	1,30

Metric mm

Nominal Dimension		Class E1	Class E2	Class E3
above	to	±	±	±
16	25	0,70	1,00	1,60
25	40	0,80	1,30	2,00
40	63	1,00	1,60	2,50
63	100	1,30	2,00	3,20
100	-	1,3 %	2,0 %	3,2 %

» Tolerances on internal dimensions of mandrel-supported extrusions

Metric mm

Nominal Dimension		Class EN1	Class EN2	Class EN3
above	to	±	±	±
0	4	0,20	0,20	0,35
4	6,3	0,20	0,25	0,40
6,3	10	0,25	0,35	0,50
10	16	0,35	0,40	0,70
16	25	0,40	0,50	0,80

Metric mm

Nominal Dimension		Class EN1	Class EN2	Class EN3
above	to	±	±	±
25	40	0,50	0,70	1,00
40	63	0,70	0,80	1,30
63	100	0,80	1,00	1,60
100	160	1,00	1,30	2,00
160	-	0,6 %	0,8 %	1,2 %

» Tolerances on cut length of extrusions

Metric mm

Nominal Dimension		Class L1	Klasse L2	Klasse L3
above	to	±	±	±
0	40	0,7	1,0	1,6
40	63	0,8	1,3	2,0
63	100	1,0	1,6	2,5
100	160	1,3	2,0	3,2
160	250	1,6	2,5	4,0
250	400	2,0	3,2	5,0

Metric mm

Nominal Dimension		Class L1	Class L2	Class L3
above	to	±	±	±
400	630	2,5	4,0	6,3
630	1000	3,2	5,0	10,0
1000	1600	4,0	6,3	12,5
1600	2500	5,0	10,0	16,0
2500	4000	6,3	12,5	20,0
4000	-	0,16%	0,32 %	0,50 %