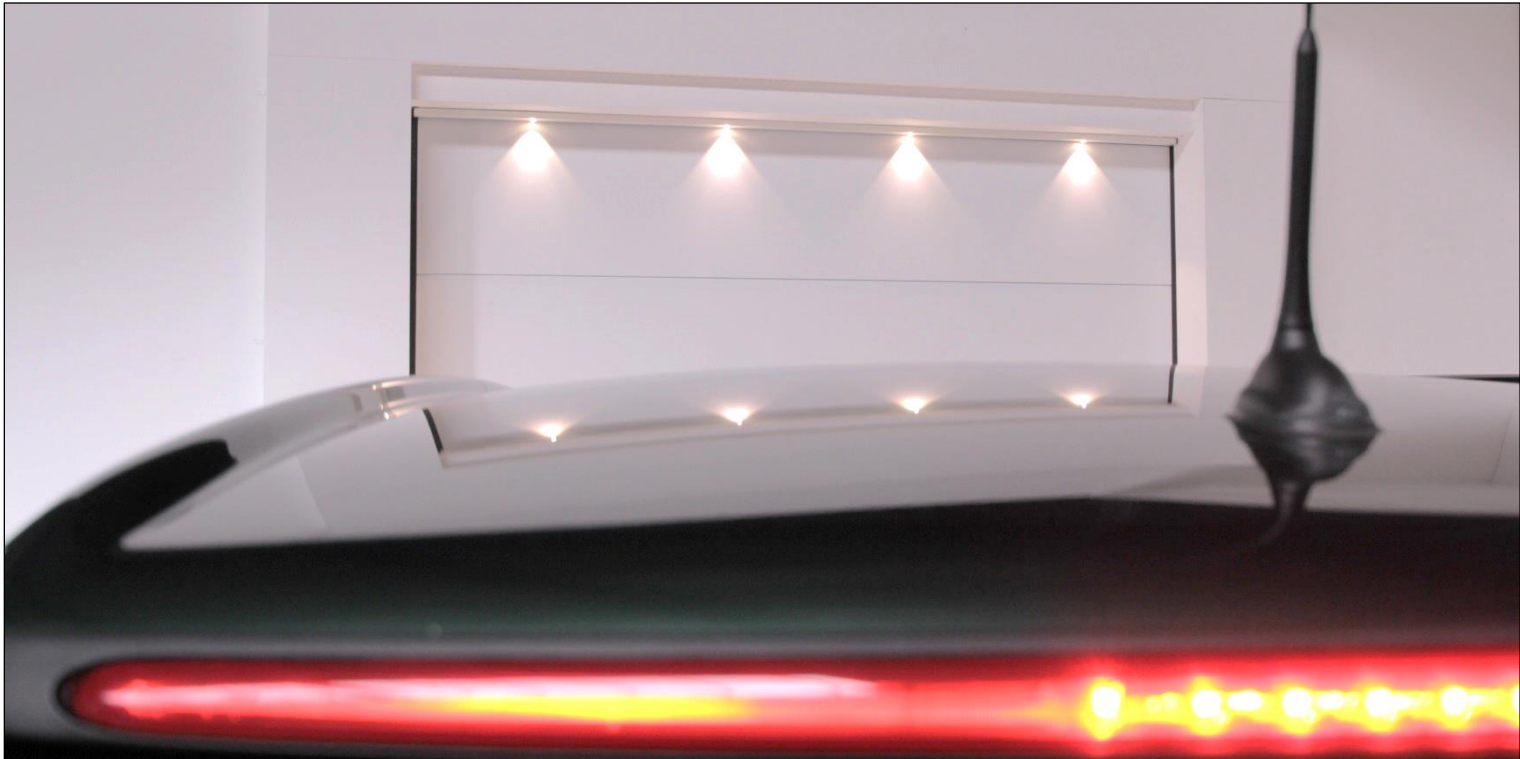


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INTRODUCTION

RSC RESIDENTIAL HARDWARE SYSTEMS



RSC RESIDENTIAL HARDWARE SYSTEMS

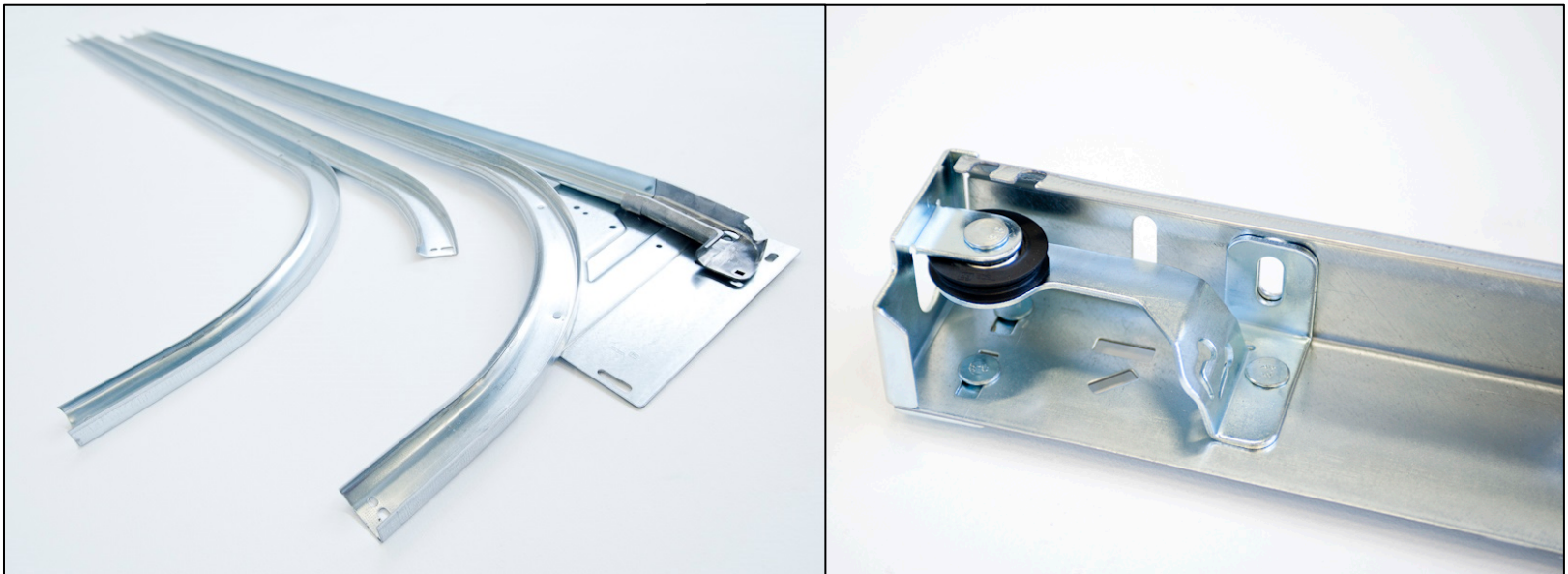


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RSC RESIDENTIAL HARDWARE SYSTEMS

This presentation presents an overview of all FlexiForce RSC hardware systems and sets for garage doors. Our customers tell us that being successful in residential doors in today's market is a real challenge. Their end customers, consumers are harder to segment and are less likely to want a standard product.

The question is where a door producer wants to have his market: In the high volume, low price market or in the higher end of the market, where a consumer is willing to pay a lot more for his door if it serves his need for convenience (automation), design, sustainability, safety and security. After all, an investment in a door is an investment in a home.



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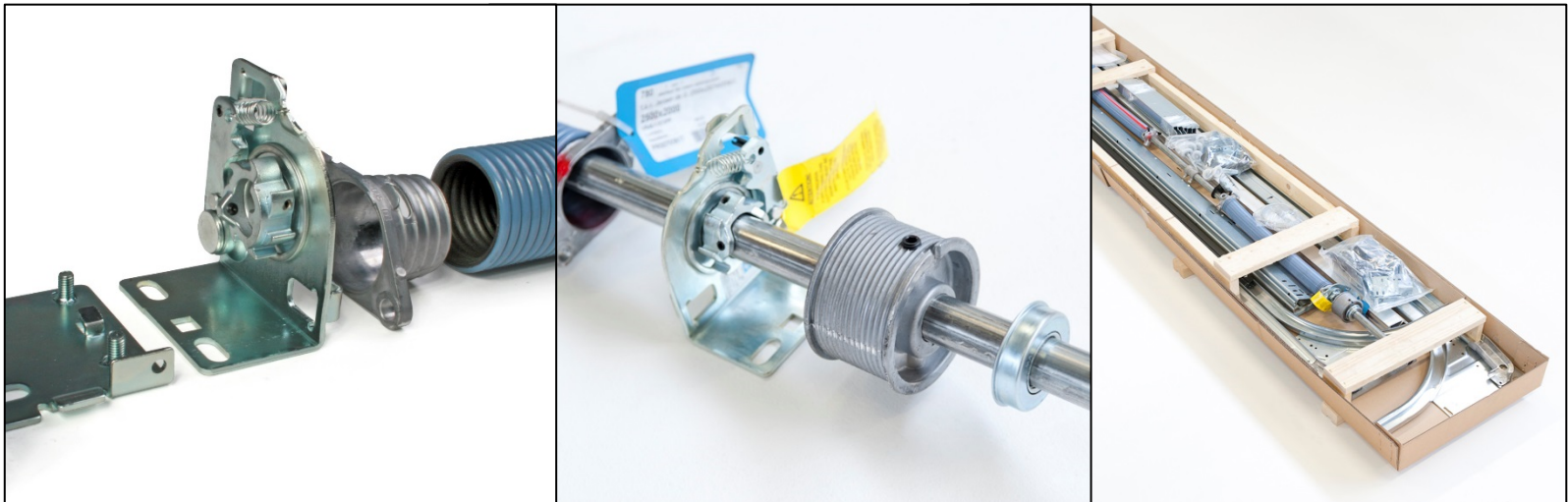
RESIDENTIAL UNLIMITED CHOICES

As a result of this, the demanded variations in door systems, colors, designs and accessories increase tremendously. This trend can be especially challenging for the local, smaller and mid-sized garage door producers. We have listened carefully to market demands for a wider application range and a need for modular systems.

A door producer has the ambition to create that specific unique door that he believes in. The FlexiForce RSC set-up and range of systems supports in fulfilling this ambition.

RSC provides unlimited choice in how the door producer wants to be served:

- Completely outsource the production of hardware sets to FlexiForce
- Buy pre-assembled track sets and pre-assembled springs for own door production
- Order all components for the door in bulk, which will be used as local stock.
- One-stop-shop combination with Liftmaster operators and door panels.



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MARKET DRIVERS

Any decision for any product or service is always based on a combination of demands and wishes. Each of us makes a choice on what we call the market drivers. How important do we, or our customers, think safety is? What value is given to good design and how does that relate to the total value or price of the product? In our design process for RSC residential systems, we have looked very carefully at each of these drivers, to make sure we offer the right value to you!



design



security



safety



sustainability



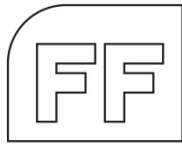
convenience



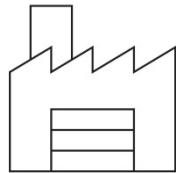
value

DEMANDS IN THE CHAIN

Each part of the sales chain for garage doors has their specific demands and views on the market drivers. Design is for the user of the door something different than for the installer of the door. Same is for convenience. With RSC we have listened carefully to the voice of each customer. RSC stands for Reliable, Secure and Convenient. The system will improve the business of small to mid-sized door producers. It will make life easier for door dealers. It increases the efficiency of installers significantly. But most important: Home owners will take full advantage of all the features that matter most to them!



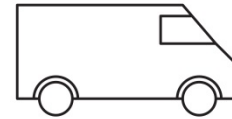
supplier



producer



dealer



installer



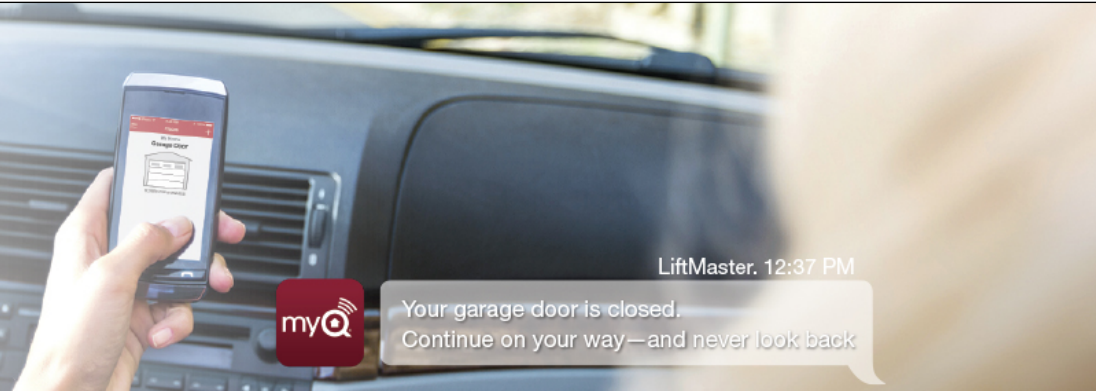
end user

CONVENIENCE = AUTOMATION

Convenience for the home owner translates into easy, worry-free operation of the door. It is clear that an automated door is more convenient than a manually operated door. When automation comes with internet smart phone access to the door and with monitoring systems and with a connection to other smart home devices, the advantage is clear.



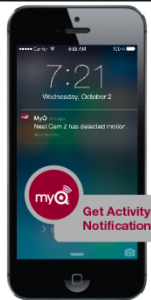
Did I Leave
the Garage Door
Open?



LiftMaster. 12:37 PM



Your garage door is closed.
Continue on your way—and never look back.



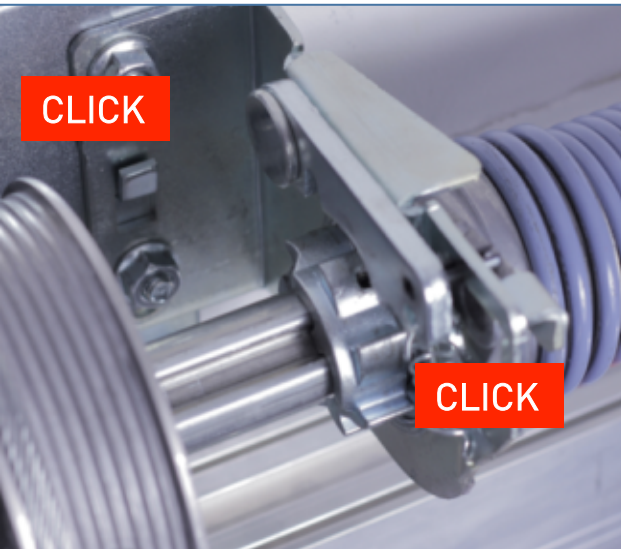
Kids Leave
the Garage Door
Open.... Again?



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CONVENIENCE = EASY

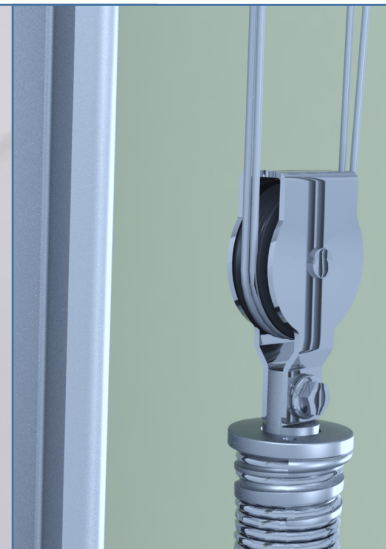
Convenience translates into ease of installation and ease of operation of the door. We have proven that RSC with torsion springs installs in less than 45 minutes by one person! The tension spring system will be even faster. Time is money, so several click systems and universal parts make the job easy.



click-on shaft and springs



distance profiles



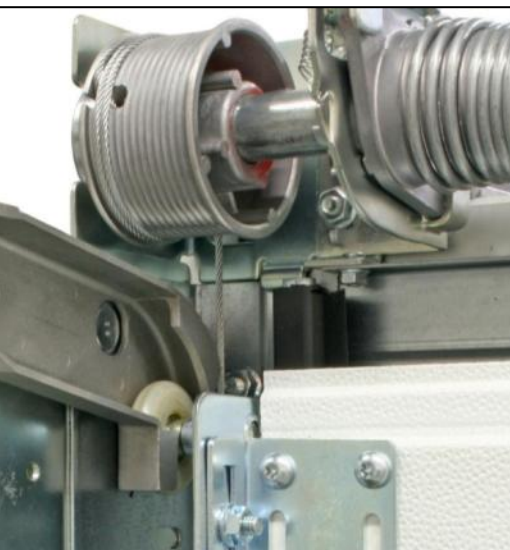
tension springs = easy



FlatBed solution

SECURITY = ANTI-BURGLAR

The easiest way for burglars to break into a home is often via the garage door. RSC contains some clever features that make it harder for burglars to force their way in.



top curve locks up top panel



closed C-track locks up rollers



floor bracket reinforces track

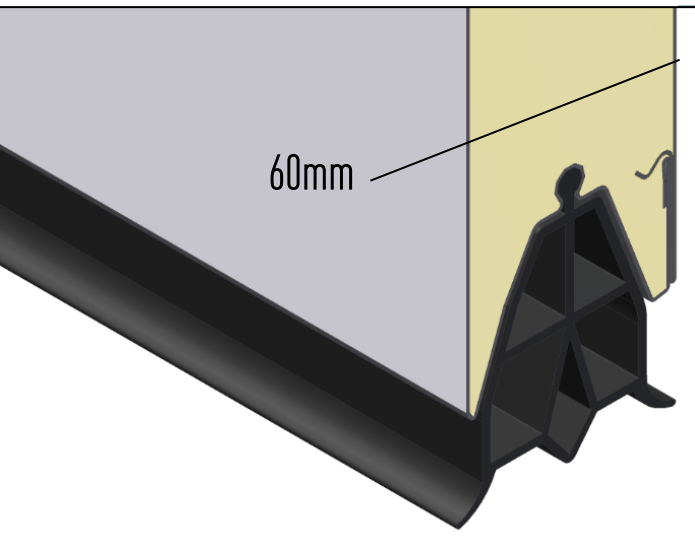


locks

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SUSTAINABILITY = THERMAL VALUES

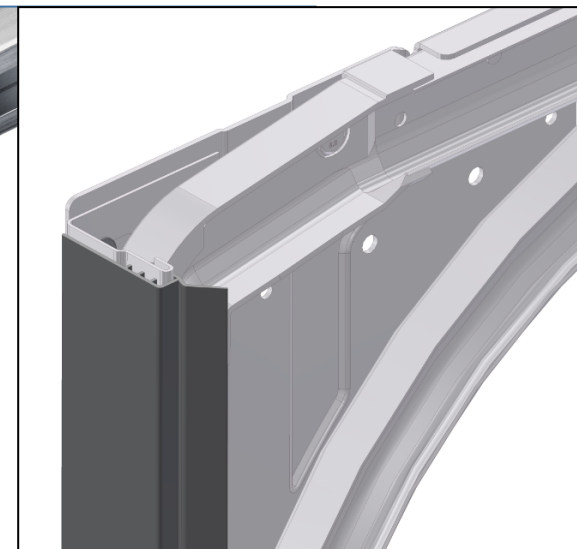
The energy demands on houses and garages are increasing. RSC offers a variety of thermal upgrades to improve the insulation and thermal values of the door. Your choice!



apply with 60mm thick panels



low standby power, energy efficient



thermal break side/top seals

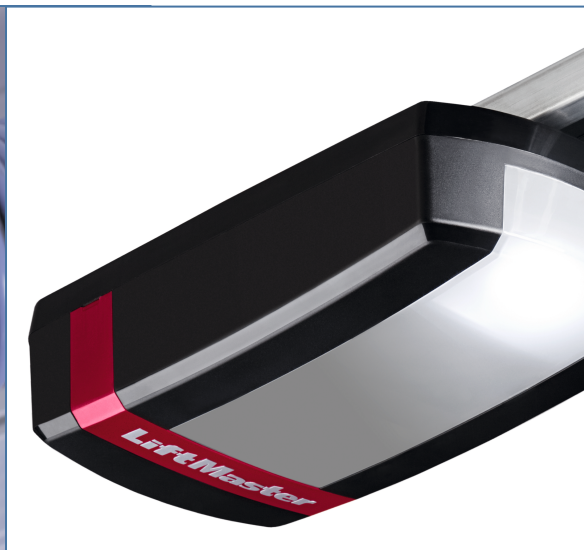
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SAFETY = INSTALLATION AND USE

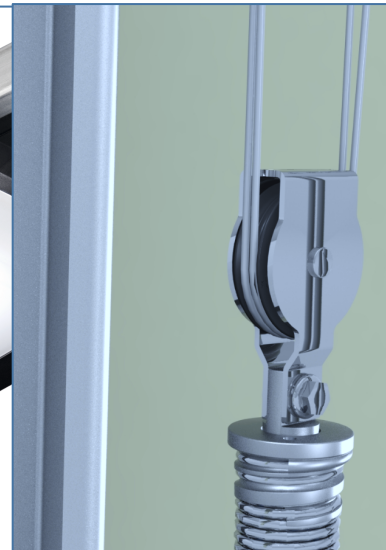
An overhead door is a heavy and big moving object. In our design we have looked carefully at making the RSC system extremely safe. For the end user of the door, but also for the installer and the person that does repair and maintenance. The CE approval on all RSC systems in combination with panels and automation confirms the realized safety level.



656S spring break device



force sensing automation



double cable / springs



roller protection

DESIGN = LOOK AND FEEL

"Design is not only what it looks like, design is also how a product works". For the end users, design of the door is translated into "curb appeal": What value does the door add to the appearance of a house. At FlexiForce we know that design, the functioning of the door, is driven by how hardware, automation and panel work together.



curb-appeal LED-bar



stainless steel window



white coated hardware, plastic covers



nice design

RSC CHOICES

Over 35 years of experience in the door industry has learned us that each door producer has strong arguments on why certain door configuration choices are made. We respect that know-how and we offer a wide range of choices in our residential systems. We do not judge the arguments pro or con, we just supply both options in the best quality! Like for example we offer both torsion spring system (powdercoated) as well as a tension spring system (galvanized)!



black, galvanized or powder-coated torsion springs



galvanized, spring-in-spring, tension springs

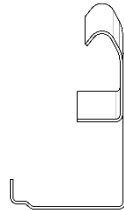
RSC VERTICAL CHOICES

Selecting the RSC system that fits your needs is simply selecting the wanted combination of vertical and horizontal track sets. We have harmonized the track sets and the article codes. We are working on completing our offer to you:

VERTICAL TRACK SETS TENSION SPRINGS:

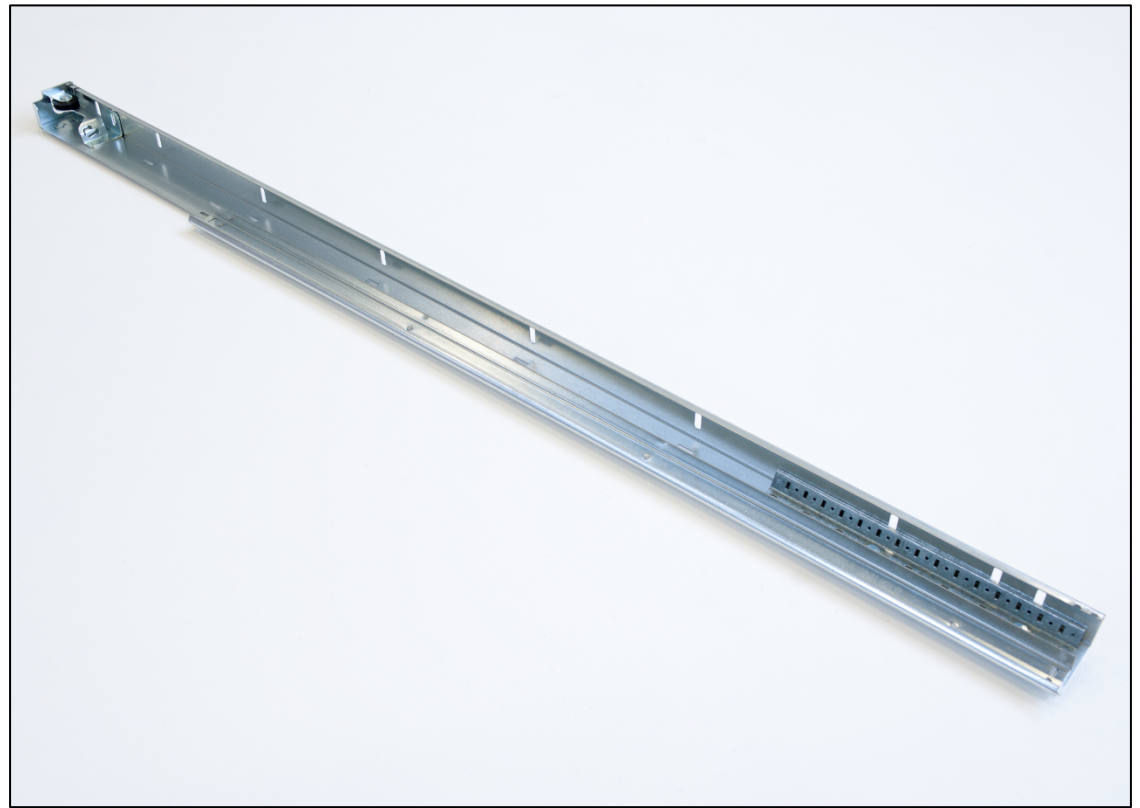
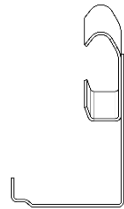
RSCVT10 etc.

915VL vertical angle with 215V open guiding track and pre-installed brackets for tension springs.



RSCVTC10 etc.

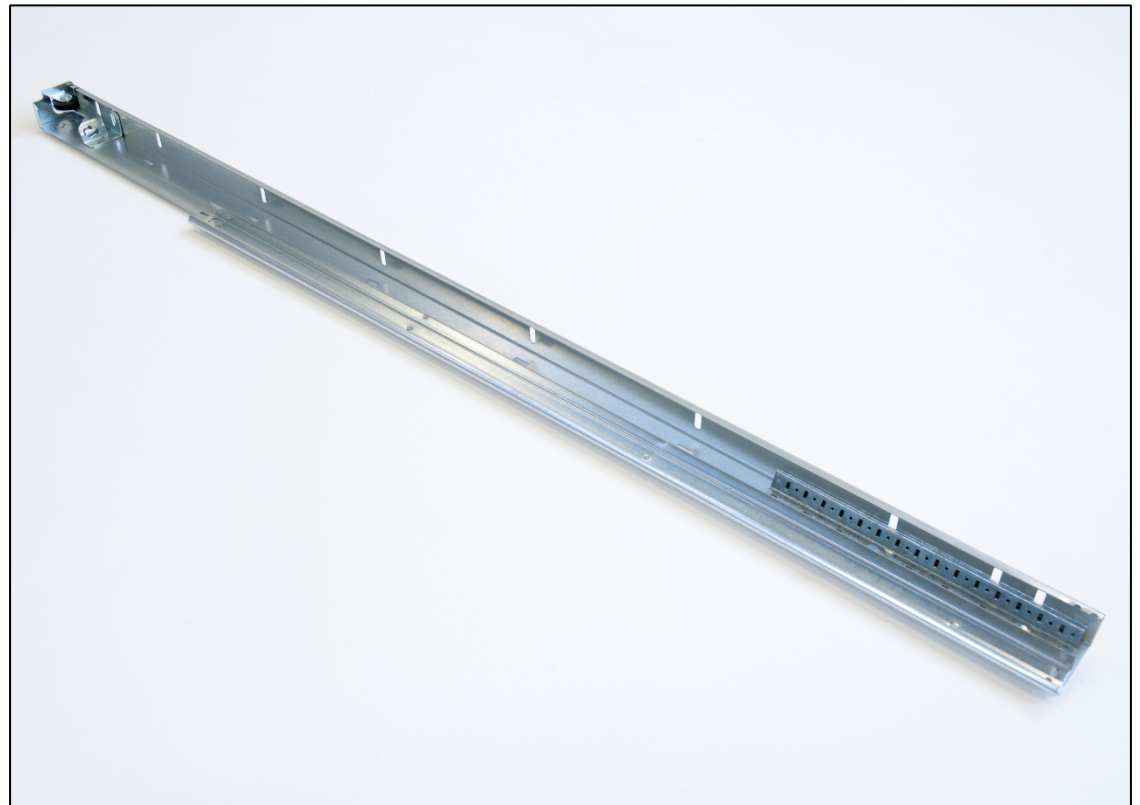
915VL vertical angle with 215VC "closed C" guiding track and pre-installed brackets for tension springs.



RSC VERTICAL CHOICES

We have added the pulley bracket (TST1PL/R) and the perforated bracket (TSPB) to our catalogue. This enables you to use the tracks RSCVL and RSCVLC universal to torsion and tension springs, reducing your stock significantly!

VERTICAL TRACK SETS TENSION SPRINGS:



RSC VERTICAL CHOICES

Selecting the RSC system that fits your needs is simply selecting the wanted combination of vertical and horizontal track sets. We have harmonized the track sets and the article codes. We are working on completing our offer to you:

VERTICAL TRACK SETS TORSION SPRINGS:

RSCVL20 etc.

915VL vertical angle with 215V open guiding track.

RSCVLC10 etc.

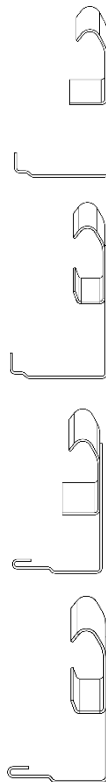
915VL vertical angle with 215VC "closed C" guiding track.

RSCVB10 etc.

915VB vertical angle with 215V open guiding track.

RSCVBC10 etc.

915VB vertical angle with 215VC "closed C" guiding track.



RSC HORIZONTAL CHOICES

Selecting the RSC system that fits your needs is simply selecting the wanted combination of vertical and horizontal track sets. We have harmonized the track sets and the article codes. We are working on completing our offer to you:

HORIZONTAL TRACK SETS:

RSCHT10 etc.

Double horizontal tracks 215V, double curves, no side plate. Use it in tension spring configuration. Or combine with torsion springs in front as "light" economic version of RSC.



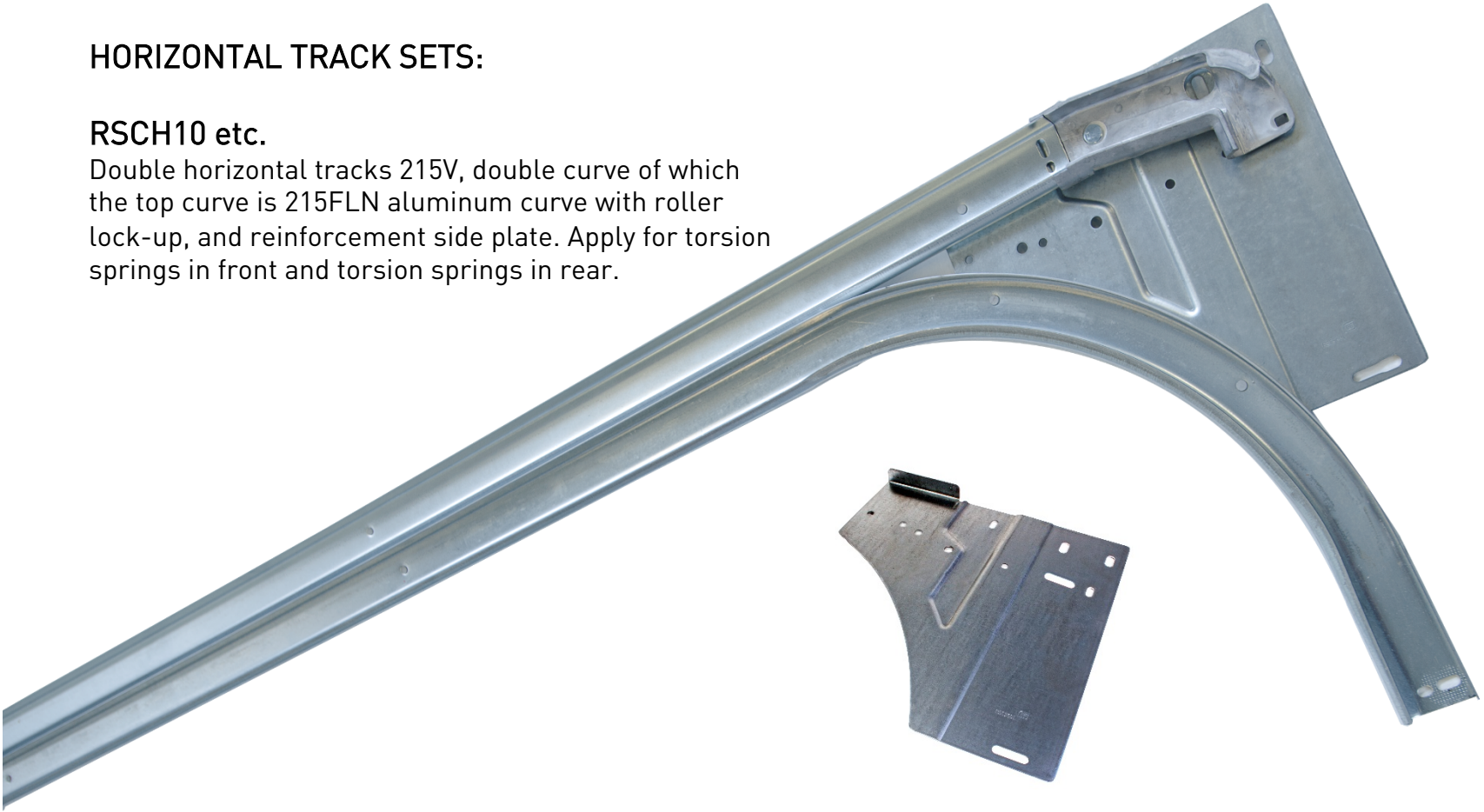
RSC HORIZONTAL CHOICES

Selecting the RSC system that fits your needs is simply selecting the wanted combination of vertical and horizontal track sets. We have harmonized the track sets and the article codes. We are working on completing our offer to you:

HORIZONTAL TRACK SETS:

RSCH10 etc.

Double horizontal tracks 215V, double curve of which the top curve is 215FLN aluminum curve with roller lock-up, and reinforcement side plate. Apply for torsion springs in front and torsion springs in rear.



RSC HORIZONTAL CHOICES

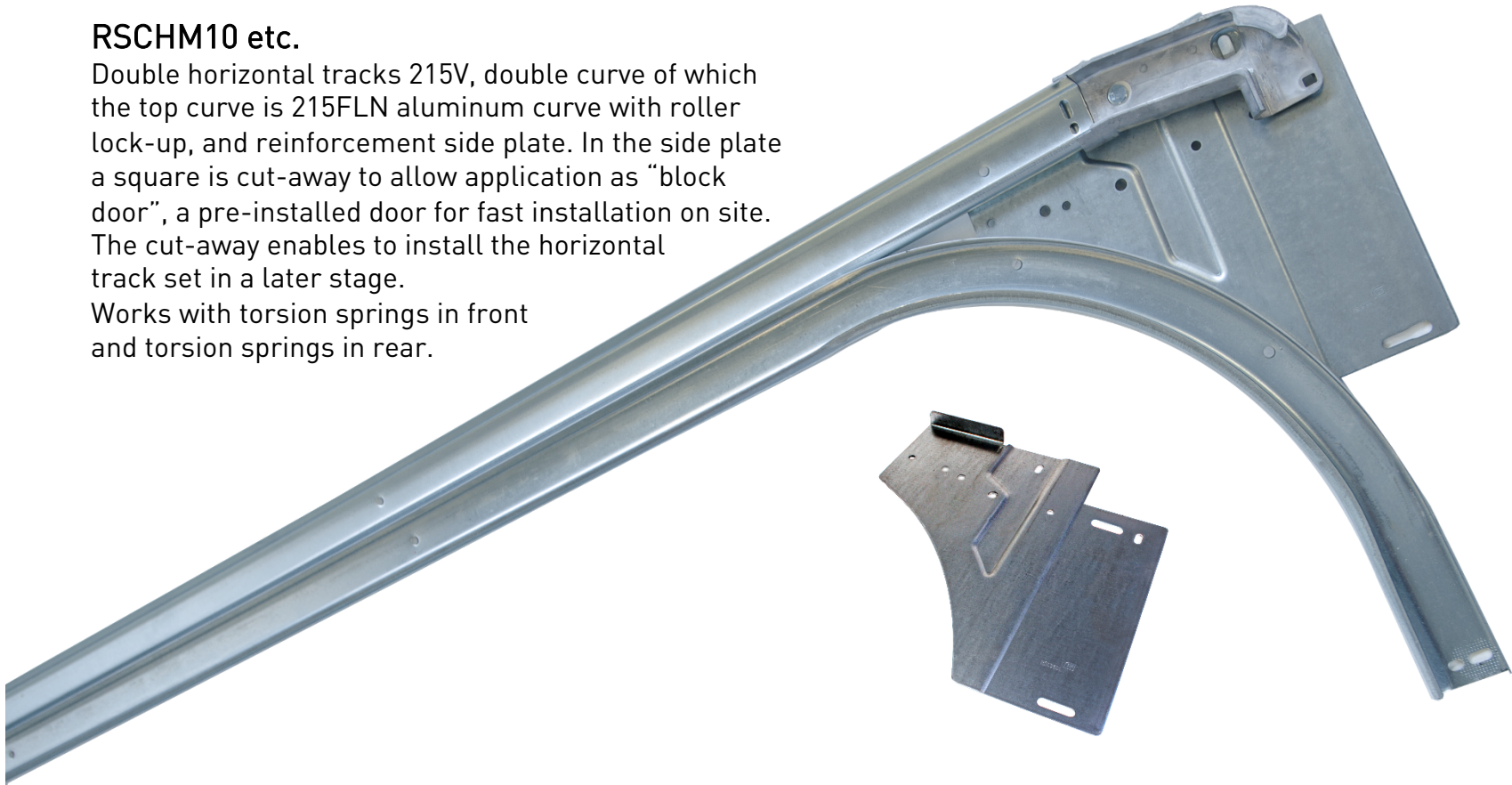
Selecting the RSC system that fits your needs is simply selecting the wanted combination of vertical and horizontal track sets. We have harmonized the track sets and the article codes. We are working on completing our offer to you:

HORIZONTAL TRACK SETS:

RSCHM10 etc.

Double horizontal tracks 215V, double curve of which the top curve is 215FLN aluminum curve with roller lock-up, and reinforcement side plate. In the side plate a square is cut-away to allow application as “block door”, a pre-installed door for fast installation on site. The cut-away enables to install the horizontal track set in a later stage.

Works with torsion springs in front and torsion springs in rear.



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RSC HORIZONTAL CHOICES

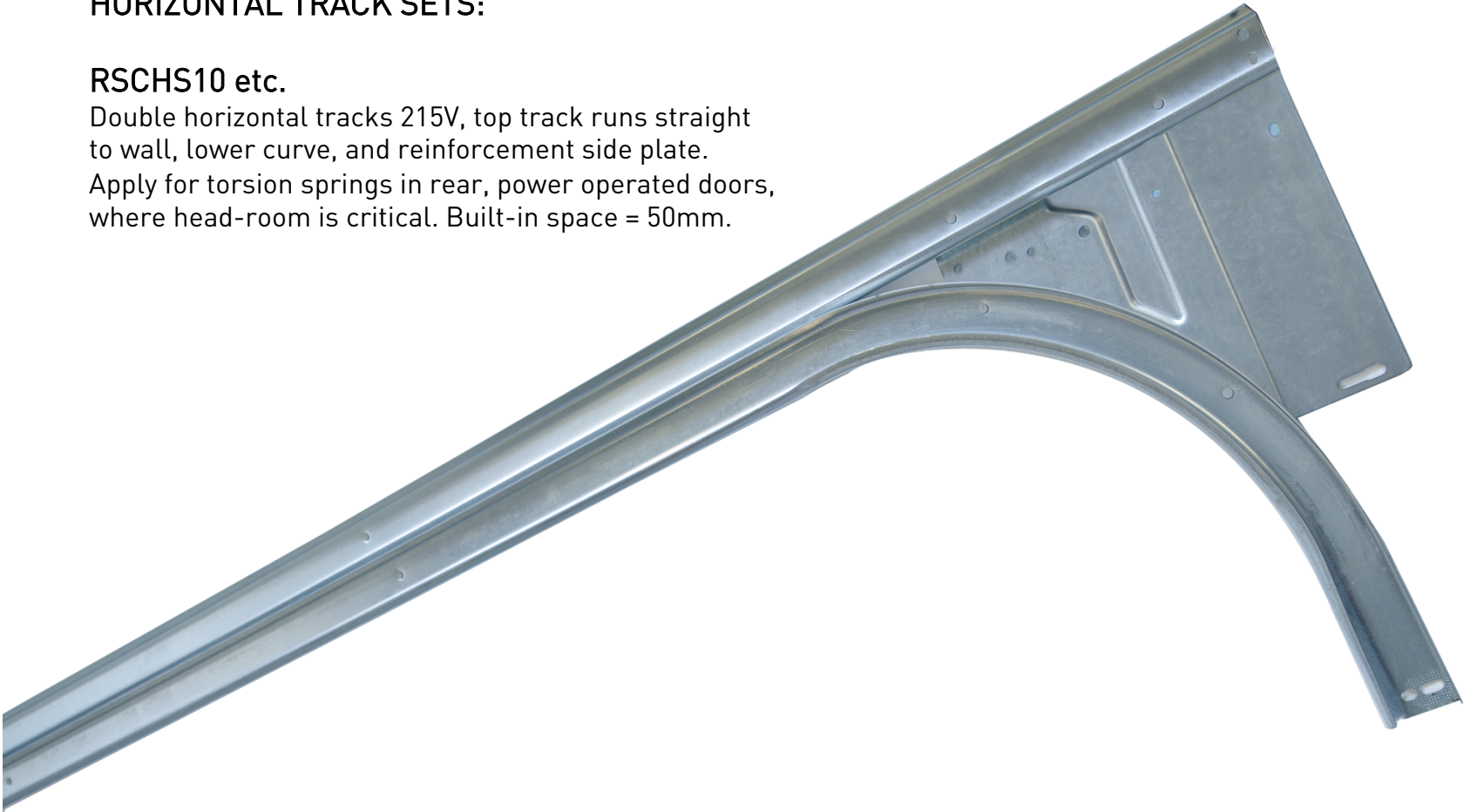
Selecting the RSC system that fits your needs is simply selecting the wanted combination of vertical and horizontal track sets. We have harmonized the track sets and the article codes. We are working on completing our offer to you:

HORIZONTAL TRACK SETS:

RSCHS10 etc.

Double horizontal tracks 215V, top track runs straight to wall, lower curve, and reinforcement side plate.

Apply for torsion springs in rear, power operated doors, where head-room is critical. Built-in space = 50mm.



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RSC SEALING CHOICES

Different vertical angles require different fitting side seals. And thermal demands from the home owner will differ from the basic solution to optimal thermal efficiency. For these choices we offer in RSC now 5 different side seals:

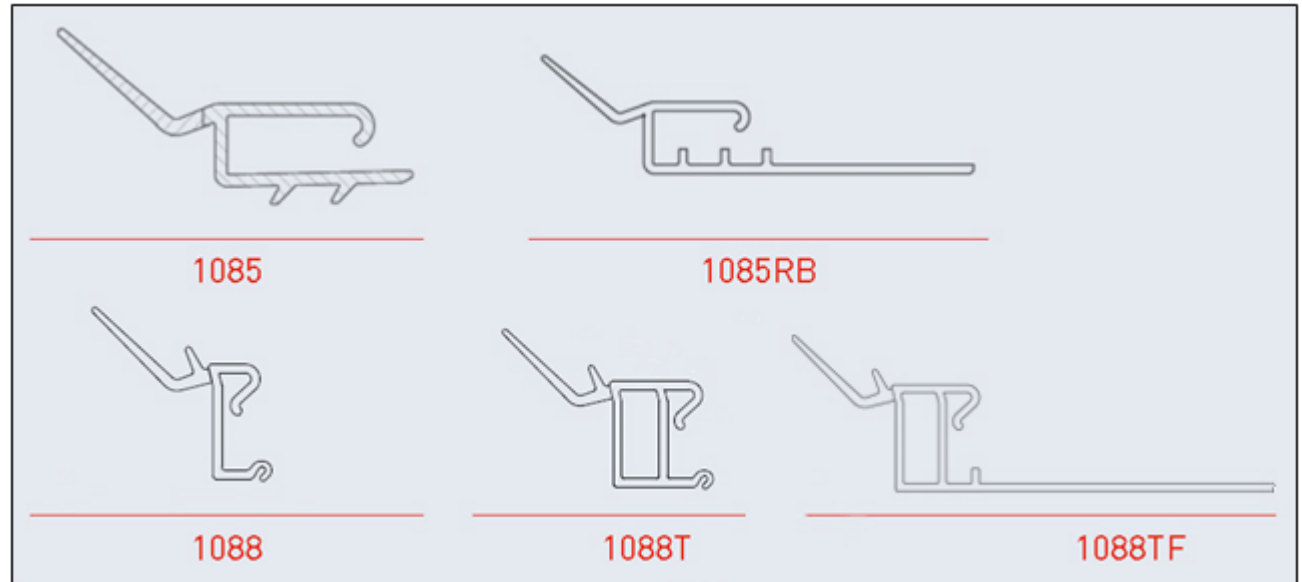
SIDE SEAL OPTIONS:

FOR 915VB ANGLE:

- 1085 standard side seal
- 1085RB side seal with thermal break flap

FOR 915VL ANGLE:

- 1088 standard side seal
- 1088T, thermal side seal
- 1088TF, thermal break side seal with flap




RSC TRACK RANGES

H (mm)	RSCVL	RSCVLC	RSCVB	RSCVBC	RSCVT	RSCVTC	H (mm)	RSCH	RSCHM	RSCHS	RSCHT
1900	-	-	-	-	v	v	1900	-	-	-	v
2000	v	v	v	v	v	v	2000	v	v	v	v
2125	v	v	v	v	v	v	2125	v	v	v	v
2250	v	v	v	v	v	v	2250	v	v	v	v
2375	v	v	v	v	v	v	2375	v	v	v	v
2500	v	v	v	v	v	v	2500	v	v	v	v
2750	v	v	v	v	-	-	2750	v	v	v	v
3000	v	v	v	v	-	-	3000	v	v	v	v

VB = 915VB
 Better fit in one-piece door replacement
 Other side seals, door blade closer to wall.

 VL = 915VL
 Door blade more distance from wall
 Wall flange wider, straight drilling


 FlexiForce customers choice 50% / 50%

RSC-T 2.0



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RSC-T 2.0

The ease of tension springs installation now in a wider application range. The new design of the double tension springs, the spring fittings and the cable pulley bracket makes this system really professional. For 20mm and 40mm thick panels!

- Max door width 4.500mm
- Max door height 2.500mm
- Max door weight 126kg



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RSC SPRINGS IN FRONT 160mm

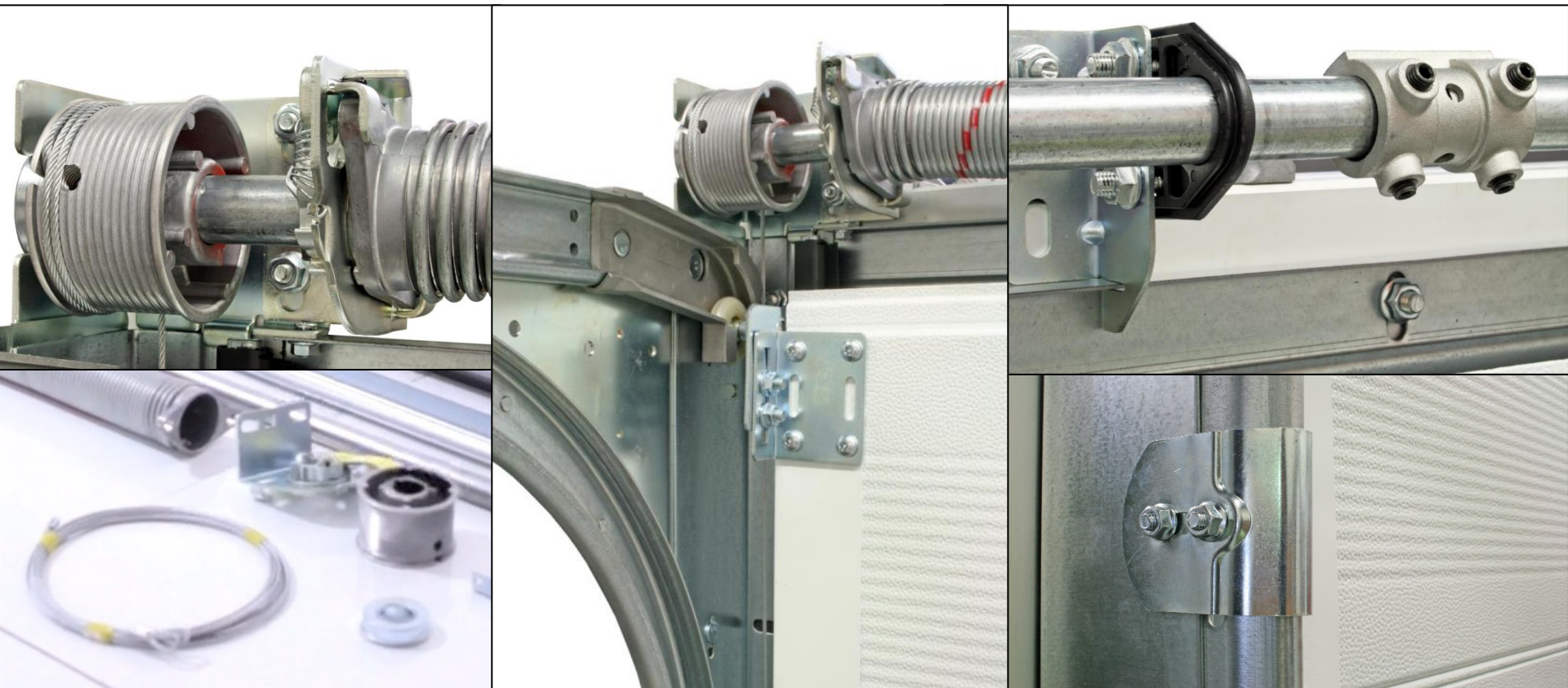


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RSC SPRINGS IN FRONT 160mm

By using a small cable drum (FFNL10) and the compact C-version of the 656S spring break device, we have created a system with torsion springs in front (at the lintel) with a head room of 160mm. For panels 20, 40 and 60mm thickness.

- Max door width 5.000mm
- Max door height 3.000mm
- Max door weight 225kg (ITTR <165kg)



RSC SPRINGS IN FRONT 190mm

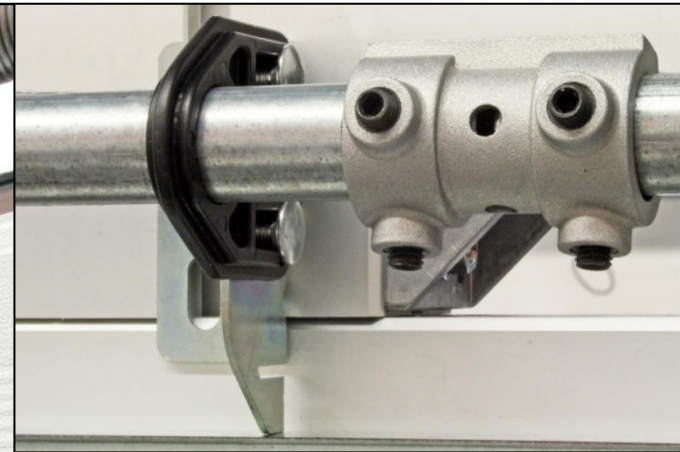


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RSC SPRINGS IN FRONT 190mm

The well-proven torsion spring system with shaft installation on the lintel. Use of the FF05NL8(E) cable drum and the standard 656S spring break device make this a solution where head room is less critical. For 20mm, 40mm and 60mm thick panels!

- Max door width 5.000mm
- Max door height 3.000mm
- Max door weight 225kg (ITTR <165kg)



RSC SPRINGS IN REAR

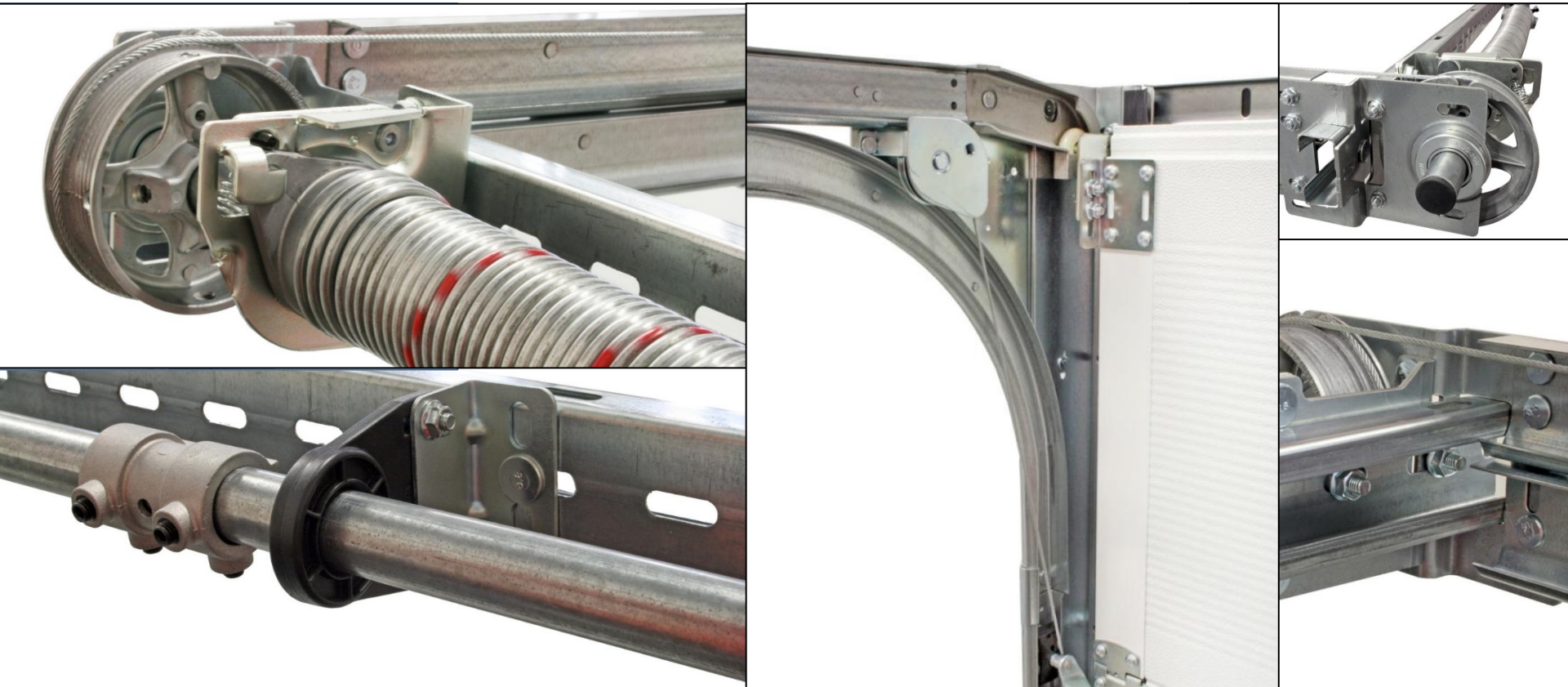


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RSC SPRINGS IN REAR

Some door producers limit their range to this system. Springs in rear. Because it always fits in any head room situation (75/115mm). The shaft system is mounted at the end of the horizontal tracks. For 20mm, 40mm and 60mm thick panels!

- Max door width 5.000mm
- Max door height 3.000mm
- Max door weight 225kg (ITTR <165kg)



RSC HARDWARE SETS

torsion springs



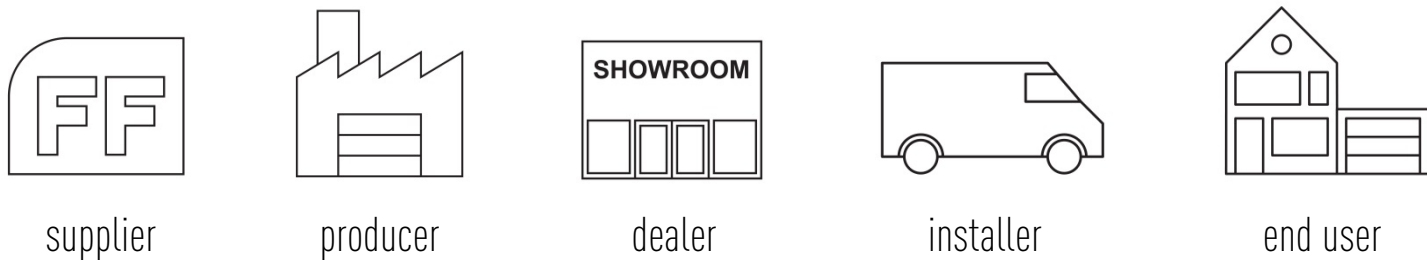
tension springs

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RSC HARDWARE SETS BENEFITS

Our RSC hardware set offering is applicable to any residential (garage) door volume from roughly 100 to over 10.000 doors per year. A potential solution for companies that consider becoming a door producer, for door producers that want to expand their business without heavy new investments in production lines, for industrial door producers with a small complementary volume in garage doors, for door producers that want to change their business model (make-or-buy evaluation) without becoming a dependent dealer of any third party door company.

You can focus on the panel assembly, on the sales and on the installation of the door. We take care of the hardware set.



FLATBED ADVANTAGES

You outsource part of your production, but you remain in charge as door producer!

Major flexibility due to short lead-time of sets. We add your volume into our planning.

Fixed costs turn into variable costs, following your highs and lows in sales volume.

Stock reduction in parts, springs and profiles. Your money is not stuck in your inventory.

Buy-to-order. When the door is sold, you order the set. Reducing your pre-financing strains.

Efficiency: FlexiForce volumes allow quality control and advanced production systems.

Production of springs and profiles fixed-to-size, without scrap. Saving up to 15%!

No investments in your production line for hardware.

Reduction of overhead and manning.

CE testing and approval done.



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HOW DOES IT WORK?



CONFIGURATION

Find on www.flexiforce.com online product configuration software, CREATE RSC.

Select easily between tension springs system or torsion spring system and choose track configuration, panel hardware, automation and all accessories needed to create your door. Your selection will result in a Bill Of Material (BOM) in which you can still make final changes before printing or submitting it.

New is the service to create your own door-size-matrix price list for the selected hardware configuration.



ORDERING

After confirming the selected dimensions and options, you order the selected hardware set digitally. Your order will be processed through our web shop, which transfers all details and instructions to our production sites.



PRODUCTION

Production of residential hardware sets is organized both in Hungary as in the Netherlands, where we have dedicated high volume production lines. Production capacity for over 100.000 sets per year. You will profit from the economies of scale of these lines. Flexibility comes from the fact that also in our smaller companies in Spain, Poland, Turkey and Italy we assemble any set in any demanded lead time. 100% checked to make sure all parts are in!



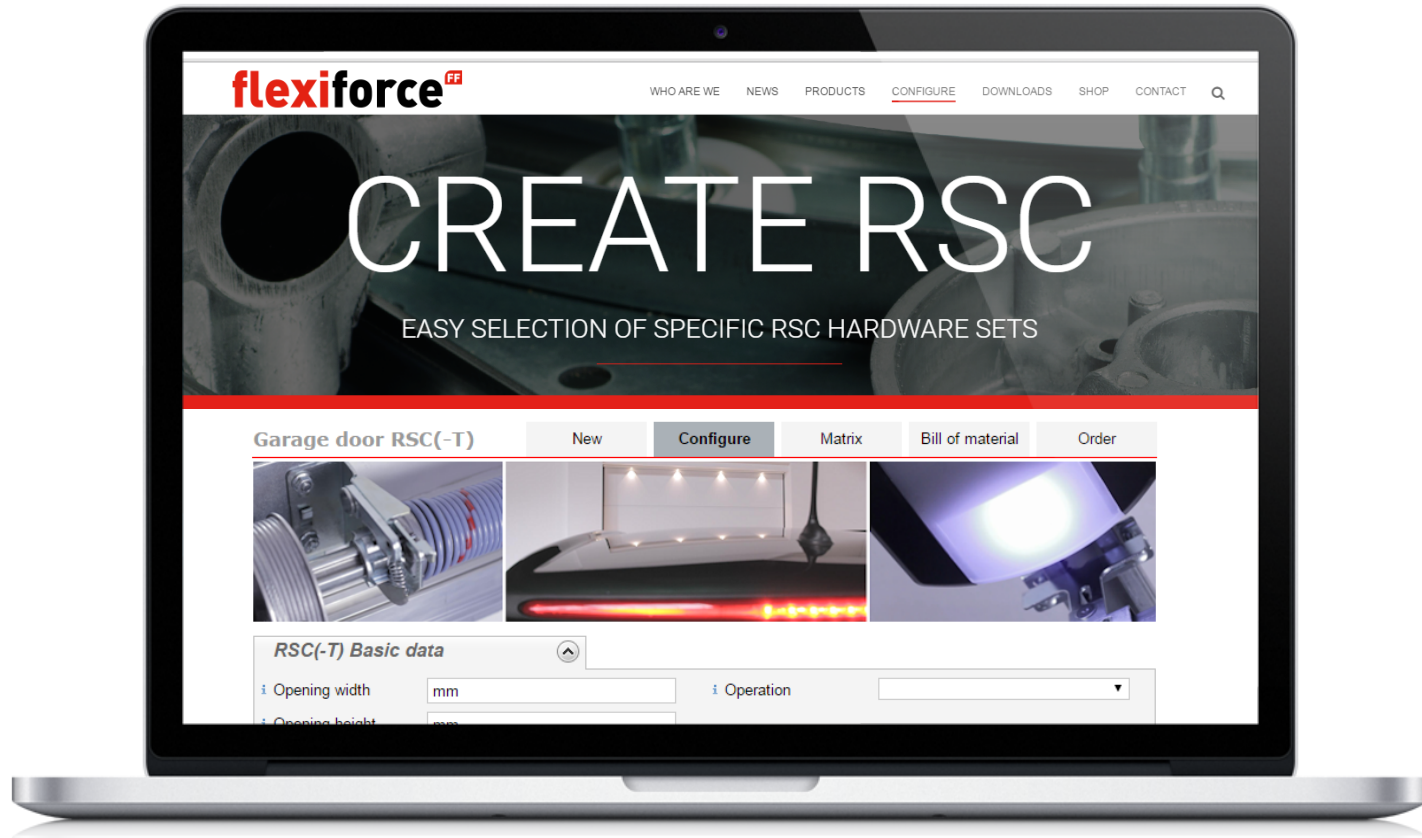
PACKAGING & SHIPMENT

The complete RSC hardware set optionally with the selected garage door opener and accessories, will be packed in an efficient FlatBed wood and carton package.

You pick it up from your local FlexiForce DC together with your other orders for parts, panels and operators. One-stop-shop and logistics. Our delivery time is 5 working days.

But we will solve any deadline demand that you might encounter!

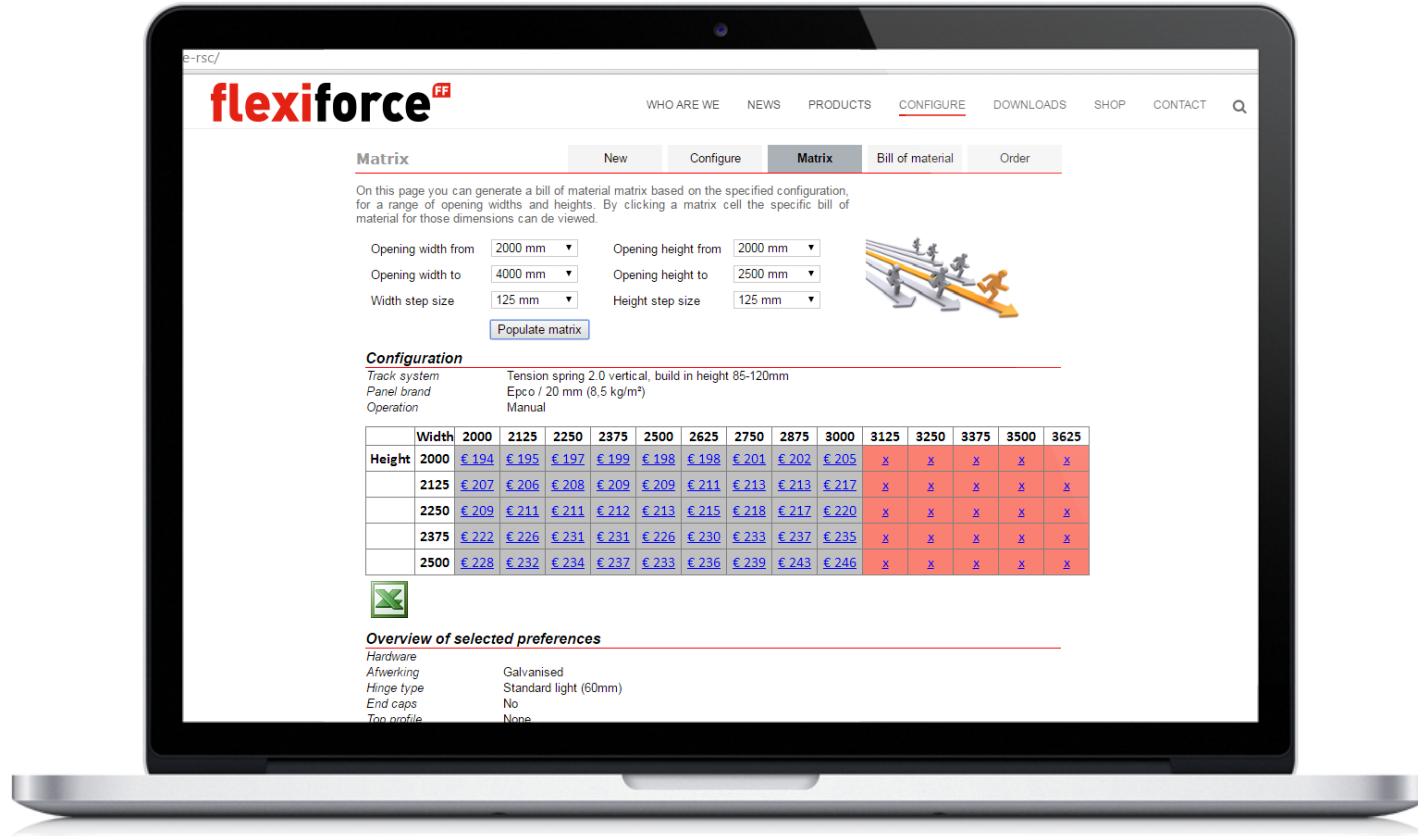
ONLINE CONFIGURATION



RSC CREATE to select and order the personalized system and bill of material

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ONLINE CONFIGURATION



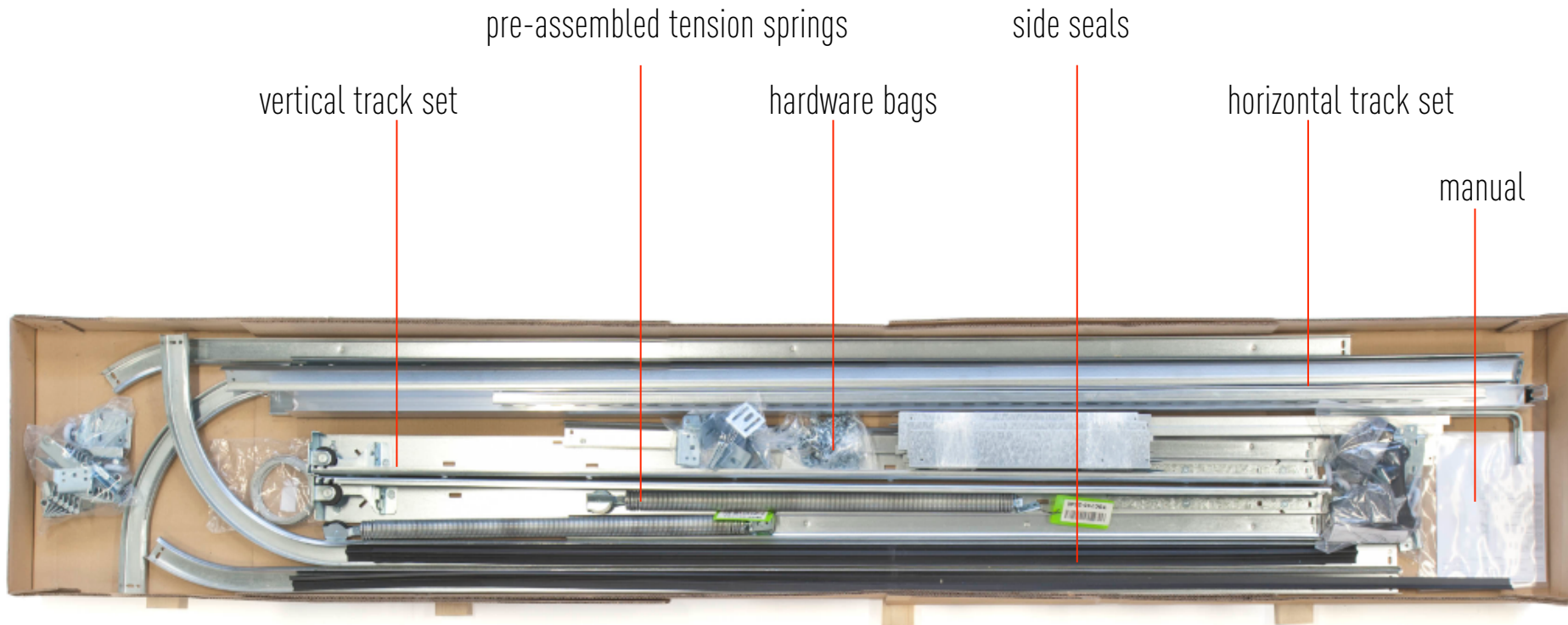
RSC CREATE for making price list matrices for any hardware type and accessory selection

MADE IN FLEXIFORCE



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WHAT'S IN THE RSC-T SET?



WHAT'S IN THE RSC SET?

manual

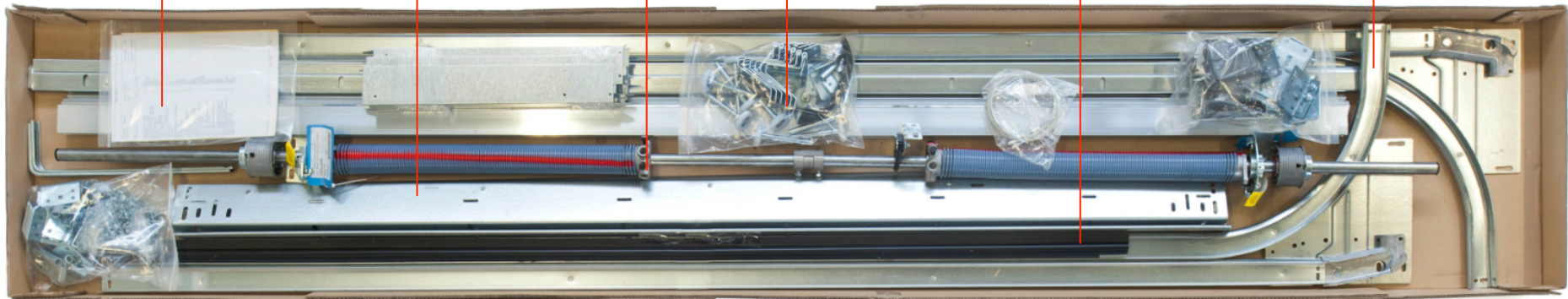
pre-assembled shaft with torsion springs

side seals

vertical track set

hardware bags

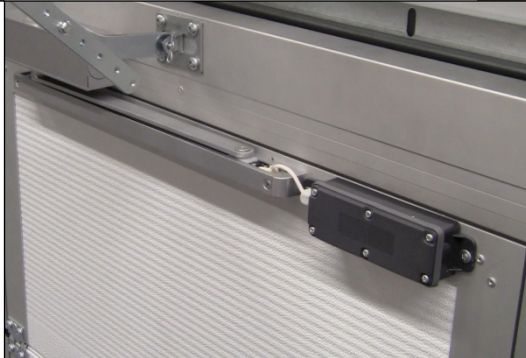
horizontal track set



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UP-SELLING OPTIONS

FlexiForce offers a wide range of hardware products for garage doors. This enables you to personalize your hardware sets by selecting extra options. To make your door fit exactly to the demand of your customer or home owner. To up-sell higher value, or to take a more economical route. Here we present to you a selection of choices, options and accessories. Consider adding these to your hardware set, increasing the value of your order and leading to happier customers.



UP-SELLING OPTIONS



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AUTOMATION

The CREATE RSC software offers a simple selection for garage door opener and e-accessories. Depending on the selection, this will be packed in the set or supplied to you separately. Find more details in our dedicated "PRICES AUTOMATION" booklet.



ONE-STOP-SHOP = PANELS

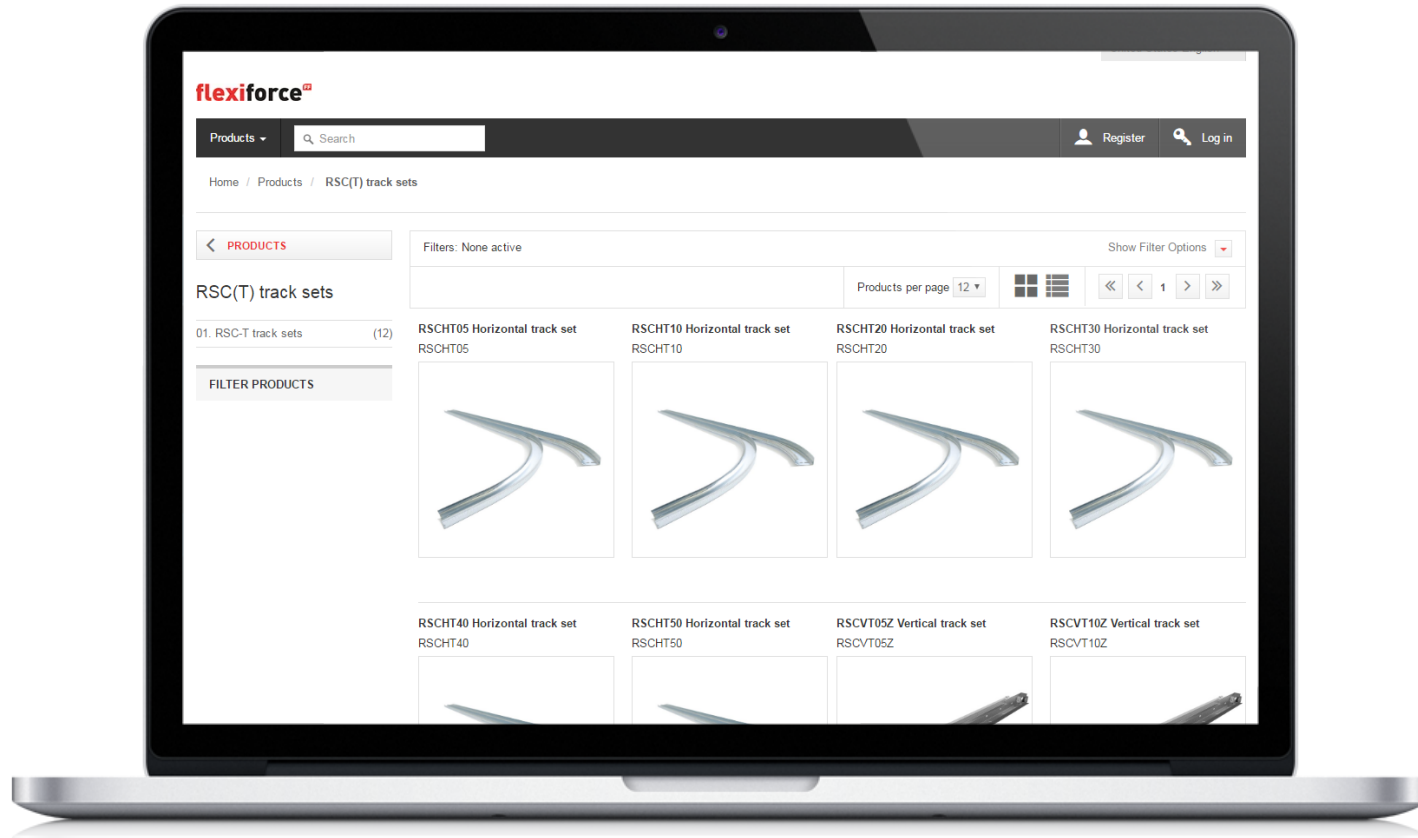


The main goal of offering a range of door panels to our customers is to enable them to compete flexibly and efficiently on their local or regional markets.

Panel companies are strongly production-orientated, meaning that they produce panels to order, in the largest possible quantity per panel type. FlexiForce has decided to buy panel in larger quantities and in a wide variety of designs at several panel producers and stock these to allow customers to buy any amount of panel, of any design and shape, in any length needed.

We are convinced about the advantage for door companies, not only in efficiency and flexibility, but also in reducing the integral cost compared to buying panels direct at the producer. Combine RSC with panels!

ONLINE ORDERING

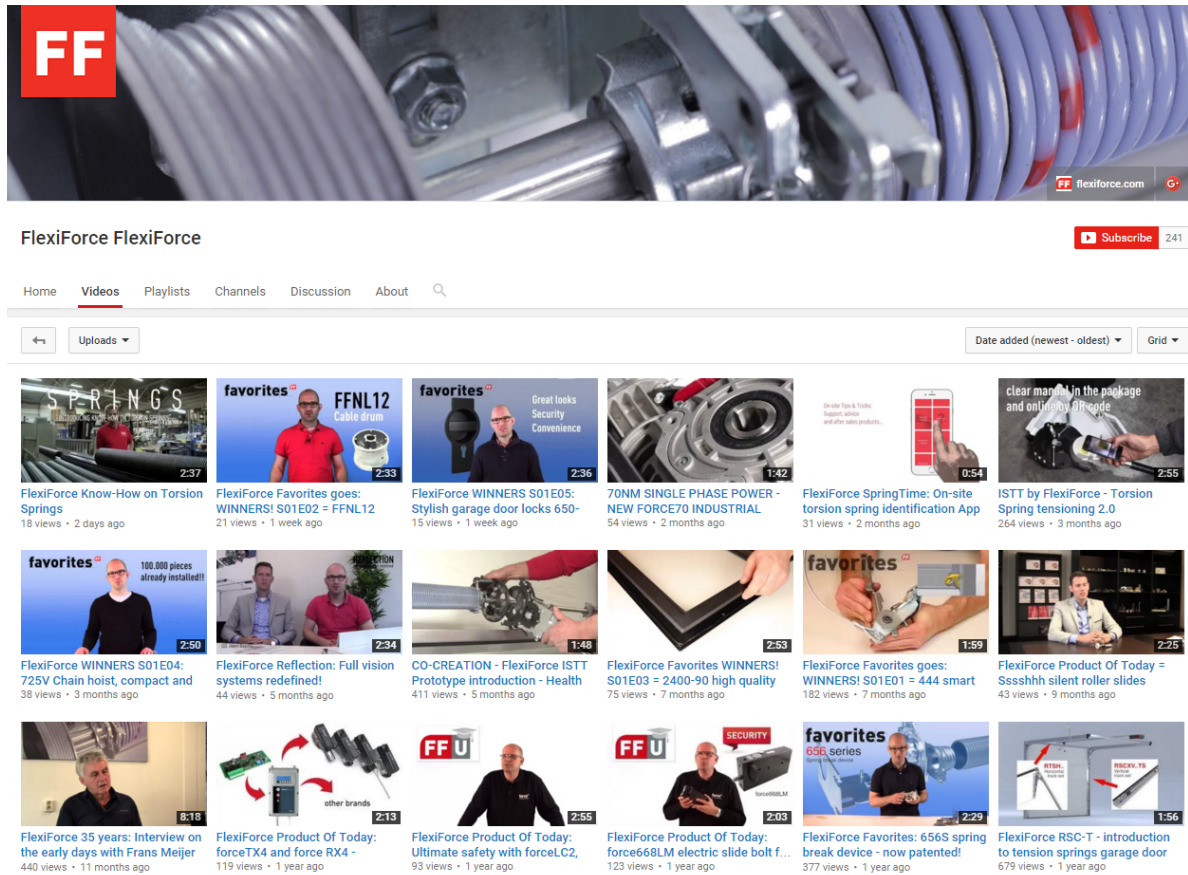


www.webshop.flexiforce.com

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ONLINE SUPPORT

FlexiForce offers a wide range of hardware products and systems for garage doors. And we offer you proper support in applying, installing or maintaining these door systems. We do that with a selection of installation manuals and installation and product videos. Find these on Vimeo or Youtube or even on our website: www.flexiforce.com



FF flexiforce.com

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Uploads Date added (newest - oldest) Grid

- favorites** **FFNL12** Cable drum **2:33**
FlexiForce Know-How on Torsion Springs
18 views • 2 days ago
- favorites** Great looks Security Convenience **2:36**
FlexiForce WINNERS S01E05: Stylish garage door locks 650-15
15 views • 1 week ago
- 70NM SINGLE PHASE POWER - NEW FORCE70 INDUSTRIAL** **1:42**
54 views • 2 months ago
- flexiforce.com **0:54**
FlexiForce SpringTime: On-site torsion spring identification App
31 views • 2 months ago
- clear manual in the package and online QR code **2:55**
ISTT by FlexiForce - Torsion Spring tensioning 2.0
264 views • 3 months ago
- favorites** 100,000 pieces already installed!! **2:50**
FlexiForce WINNERS S01E04: 725V Chain hoist, compact and
38 views • 3 months ago
- favorites** **2:34**
FlexiForce Reflection: Full vision systems redefined!
44 views • 5 months ago
- CO-CREATION - FlexiForce ISTT Prototype introduction - Health** **1:48**
411 views • 5 months ago
- FlexiForce Favorites WINNERS! S01E03 = 2400-90 high quality** **2:53**
75 views • 7 months ago
- favorites** **1:59**
FlexiForce Favorites goes: WINNERS! S01E01 = 444 smart
162 views • 7 months ago
- FlexiForce Product of Today = Sssshhh silent roller slides** **2:25**
43 views • 9 months ago
- FlexiForce 35 years: Interview on the early days with Frans Meijer** **8:18**
440 views • 11 months ago
- FlexiForce Product of Today: forceTX4 and force RX4 -** **2:13**
119 views • 1 year ago
- FF U** **2:55**
FlexiForce Product of Today: Ultimate safety with forceLC2,
93 views • 1 year ago
- FF U SECURITY** **2:03**
FlexiForce Product of Today: force668LM electric slide bolt f...
123 views • 1 year ago
- favorites** 656 series **2:29**
FlexiForce Favorites: 656S spring break device - now patented!
377 views • 1 year ago
- FF U** **1:56**
FlexiForce RSC-T - introduction to tension springs garage door
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CE-ITTR

As you know, FlexiForce has been a pioneer in leading the market where it comes to providing Initial Type Testing Reports and CE-approvals for complete door systems that use our hardware and operators. RSC is no exception to our strategy. We have made sure that all our RSC systems are type tested, documented and approved for application in safe residential (garage) doors. Your sales team has all the details for you, also on what a door producer needs to do more to cover a full CE-approval on his installed door. Contact us!

ZERTIFIKAT ◆ CERTIFICATE ◆ CERTIFICADO ◆ CERT ◆ CERTIFICADO ◆ CERTIFICATE ◆ ZERTIFIKAT

Certificate of a Conformity-Examination


Industrie Service

Certificate No.: TorFV 4/049/1

Approved testing institution: TÜV SÜD Industrie Service GmbH
Testing institution for the building product (system 3)
EN 13241-1:2003 Industrial, commercial and garage doors and gates – Product standard – Part 1: Products without fire resistance or smoke control characteristics
Westendstrasse 199
80909 München – Germany

Applicant / Holder of certificate: FlexiForce Group B.V.
Hanzeweg 25
3771NG Barneveld – The Netherlands

Manufacturer: FlexiForce Group B.V.
Hanzeweg 25
3771NG Barneveld – The Netherlands

Testing Laboratory: TÜV SÜD Industrie Service GmbH
Prüflaboratorium für Produkte der Fördertechnik
Prüfbereich Maschinen der Fördertechnik
Gottlieb-Daimler-Strasse 7
70794 Filderstadt – Germany

Date and number of test report: 2016-01-01
TorFV 4/048-6/100

Testing standards: EN 12604:2000 Industrial, commercial and doors and gates – Mechanical aspects
EN 12605:2000 Industrial, commercial and doors and gates – Mechanical aspects

Result: The anti drop device meets the requirements testing standards for the scope of application in the above mentioned test report (Nr. 24073/1994-11-23)

Reference: This certificate remains valid as long as the anti drop device is manufactured like it was tested and the requirements testing standards for anti drop devices remain unchanged.

Revision: 1

Date of translation: 2014-02-05

Testing institution – Identification number: 0000

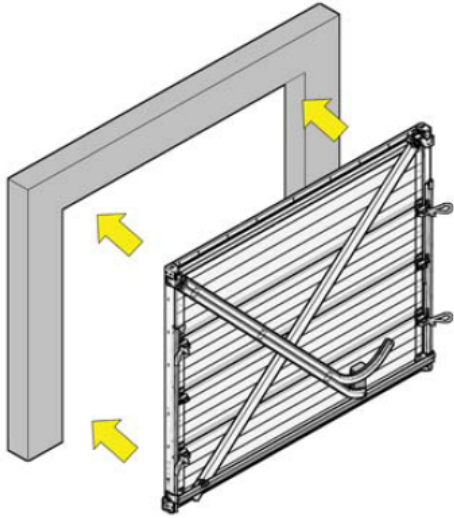

Thoralf Mühler



TUV[®]

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MORE TO COME



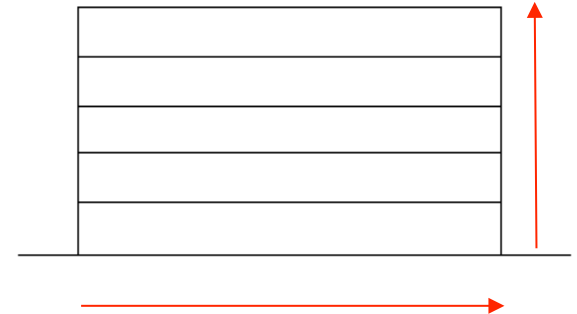
BLOCK DOOR

Knowing that the hour rate of a mechanic on-site is higher compared to that in the factory, initiated the demand for a “block door”. A door that is completely pre-installed in the factory, after which it can be placed directly into the door opening on site. Only fix to the wall and install the horizontal tracks. FlexiForce offers two brackets and a manual to make this possible.



BOLT/NUT TRACK SETS

Again a matter of choice. Some like the track set to be adjustable on site (so bolt/nut connection rails to angle), others like it fixed (our standard rivet connected track sets). Soon we will offer both.

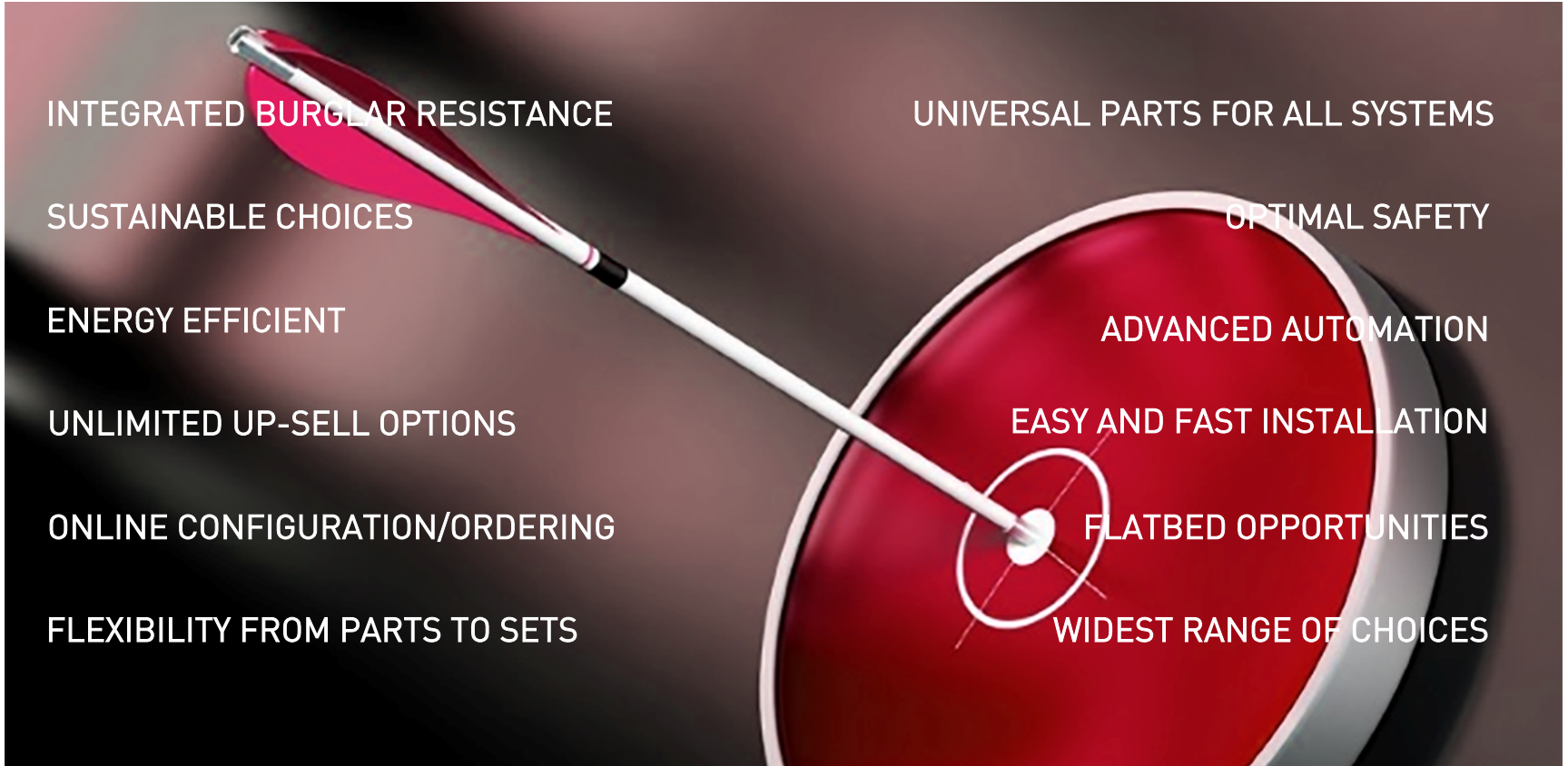


MAX DOORS

Why not consider using a residential system in bigger doors. That can be big residential doors or even small industrial doors. We are investigating RSC-MAX to become an answer to that market demand.

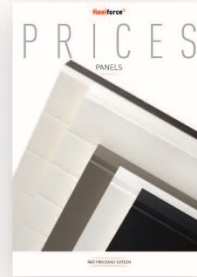
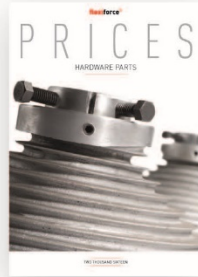
WHY RSC?

The choice for RSC residential solutions is a choice for:



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WHERE TO FIND US



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RSC - SYSTEMS

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