

RECA-UK

RECA | CONNECTS. PERFORMS. INSPIRES.



RECA Diaflex Guide

Diamond blades for the construction trade.



RECA-UK

RECA | CONNECTS. PERFORMS. INSPIRES.

RECA-UK LTD is part of the European RECA Group. The RECA Group, with over €700 million turnover, offer massive resources to help give you, the customer, the best possible service.

RECA-UK LTD has a sales force of over 85 sales professionals giving nationwide coverage, offering technical advice on over 5,500 lines that are available from our distribution facility in West Bromwich, where we have a service degree of 98.5% and we offer a next day delivery service as standard.

With over 9,000 active customers already in the UK, it is easy to see that our high quality consumable products offered within the RECA range make sense to all professionals in every trade. Every RECA product offers innovation and improved performance to that which is standard within the industry.

What We Offer.

Product quality - The cornerstone of success for the entire group, RECA products are designed and specified to German standards so that quality and reliability are guaranteed.

Our range of RECA products gives the user a superior performance and quality to that which is the industry norm.

RECA are consistently refining and improving products with state-of-the-art technology and new manufacturing techniques to produce and develop an unprecedented range of superior products.

Next day delivery – For your peace of mind we offer a next day delivery as standard to our customers, to any UK mainland address including sites.

Value for money - Our competitively priced range of products help to reduce down time and provide a quicker cut/drill time.

Technical support and backup – Is available either through your local sales representative or our technical customer service team in West Bromwich.



All information contained within this brochure is given in good faith purely as a guide to RECA-UK's product range. Further, more detailed information on specific products is available on request. RECA-UK's policy of continual development and improvement may result in specific changes without prior notice. A copy of RECA-UK's full 'Conditions of Sale' is available on request. E & OE.



RECA Diaflex Diamond Blades

Features of RECA Diaflex Diamond Blades:

- Better Hold – The segments of the disc are through laser-welded onto the disc core. This guarantees the very best segment hold across the full segment width. This excellent segment hold also applies when reverse cutting and on discs which have been worn.
- Higher Precision Cut – The RECA Diaflex blade is manufactured from three layered metal sheets, 'sandwiched' together, instead of just the one plate. This ensures a smooth running blade, producing a higher precision cut.
- RS10 Quality – R = Reliability, S = Strength and 10 = Hardest grade of diamond.

The principle is: When in doubt, choose a diamond blade for hard material with a softer bond, these discs simply cut better! The right blade for each application!

Materials Categories and Symbols



Angle
Grinder



High Speed Cut
Off Saw



Masonry
Saw



Stone
Saw



Joint
Cutter



Dry
Cut



Wet
Cut



Dry Wet
Cut

4

HARD MATERIAL: Ceramics, Artificial Stone, Clay Pipe, Reinforced Concrete, Granite, Concrete Kerb.

6

MEDIUM HARD MATERIAL: Concrete Pipe, Agg. Concrete, Concrete Slab, Red Brick, Concrete Kerb.

8

ABRASIVE MATERIAL: Asphalt Roadway, Lime Sandstone, Refractory brick, Green Concrete.

10

SPECIALIST BLADES: Natural Stone, Concrete, Granite, Brick Mortar.

12

DIAMOND DRILLS: Granite, Ceramic Tiles, Reinforced Concrete, Natural & Artificial Stone.

Conversion Table

Millimetres	20	22.2	25.4
Inches	3/4	7/8	1

All dimensions shown in millimetres

HARD MATERIAL

Hard materials include:



Tile/Ceramics



Hard Artificial Stone



Clay Pipe



Reinforced Concrete



Concrete Kerb

RECA Diaflex RS10F

- The specialist disc for tiles. A very soft bond, segment height 8mm, with continuous rim.
- For use on tiles, thin granite, marble slabs, glass and ceramics.

*For diameters of 180mm upwards, the RS10F should be used in conjunction with table saws rather than angle grinders in wet and dry cutting. The bore size is 30mm but each disc is supplied with a reducing ring as standard, reducing the bore size to 25.4mm.

Art. No.	Ø	Bore	Suitable for
0661 110 115	115	22.2	
0661 110 125	125	22.2	
0661 110 180*	180	30/25.4	
0661 110 250*	250	30/25.4	
0661 110 300*	300	30/25.4	
0661 110 350*	350	30/25.4	

RECA Diaflex Ultra H

- Superfast premium diamond blade, with a 10mm segment turbo rim for cutting hard and extremely hard material.
- The Ultra H is set apart by its superb cutting ability in even the hardest of material, cutting cleanly and leaving clean edges. Suitable for hard artificial stone, tiles, thin granite slabs, hard stone, ceramics, marble, porcelain and clay pipes.

Art. No.	Ø	Bore	Suitable for
0664 221 115	115	22.2	
0664 221 125	125	22.2	
0664 221 230	230	22.2	

RECA Diaflex AX12

- A specialist diamond blade for cutting hard materials.
- This diamond blade has a unique matrix segment providing increased performance when cutting.
- Segment height 12mm.
- For use on reinforced concrete, aggregated concrete, red brick, clinker, granite and building materials.

Art. No.	Ø	Bore	Suitable for
0661 101 115	115	22.2	
0661 101 125	125	22.2	
0661 101 230	230	22.2	

RECA Diaflex Ultra

- Symmetrically arranged diamonds are integrated throughout the segment in four layers, which gives the disc an unprecedented cutting speed and an extremely comfortable cutting feel even into the toughest stone materials and also into iron.
- Laser welded with segment height of 12mm (10+2) up to 230mm and 15mm (13+2) for sizes of 230mm and larger.
- The smaller diameters of 115 and 125mm have a bore of 22.23 mm, as well as the X-Lock holder for the latest generation of angle grinder.
- The discs with 30 mm hole and 25.4 mm reducing ring have a silent core steel blade and can therefore only be used on bench saws when wet cutting.
- For use on all common stone materials, especially hard, reinforced concrete, exposed aggregate concrete, natural stone, paving, granite, porphyry, hard sand-lime brick and many other materials.

Suitable for:



Art. No.	Ø	Bore
0664 006 115	115, X	22.2
0664 006 125	125, X	22.2
0664 006 150	150	22.2
0664 006 180	180	22.2
0664 006 230	230	22.2
0664 006 300	300	20
0664 006 355	350	25.4
0664 006 455	450	25.4

Art. No.	Ø	Bore
0662 406 230	230	22.2
0662 406 355	350	25.4

RECA Ultra Silent

- The "SILENT" discs cut significantly quieter in comparison to other diamond cutting discs. The noise level is reduced by up to 15 dB and is noticeably lower.



RECA Diaflex H

- Offers a very clean cut for the hardest of materials, with a continuous rim and soft bond.
- For use on granite, marble, ceramic, concrete, clay and cast iron pipes, concrete plaster, hard brick, very hard concrete (also reinforced) and exposed aggregate concrete.

Art. No.	Ø	Bore	Segment Height
0661 111 115	115	22.2	12mm
0661 111 125	125	22.2	12mm
0661 111 150	150	22.2	12mm
0661 211 230	230	22.2	12mm
0661 211 300	300	20	10mm
0661 211 350*	350	20	10mm
0661 211 355*	350	25.4	10mm

* segmented



Suitable for:



MEDIUM/HARD ABRASIVE MATERIAL

Medium/hard abrasive materials include:



Concrete Pipe



Aggregated Concrete



Concrete Slab



Red Brick



Concrete Kerb

RECA Diaflex XL10

- The XL10 can be used on most medium abrasive materials including cured aggregate concrete, reinforced concrete, bricks, paving bricks and lightweight blocks.
- Hard bond, segment height 10mm.
- Ideal for concrete repair specialists or any other trades where the majority of cutting is performed in medium strength concrete (including reinforced).



Art. No.	Ø	Bore	Suitable for
0661 403 232	230	22.2	
0661 403 300	300	20	
0661 403 355	350	25.4	
0661 403 405	400	25.4	
0661 403 455	450	25.4	
0661 403 605	600	25.4	

RECA Diaflex RS10B

- The RS10B is a particularly long lasting blade when used continually on hard materials such as concrete, reinforced concrete, general building material, cast iron pipe and bricks.
- Medium / hard bond, segment height 9+1mm.



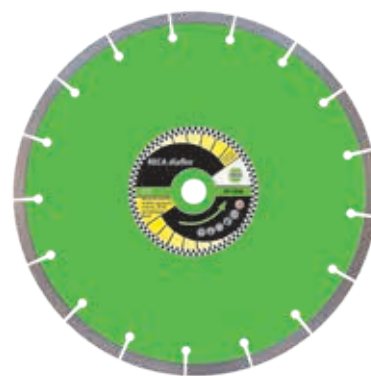
Art. No.	Ø	Bore	Suitable for
0661 112 115	115	22.2	
0661 112 125	125	22.2	
0661 112 180	180	22.2	
0661 112 230	230	22.2	

Art. No.	Ø	Bore	Suitable for
0661 202 300	300	20	
0661 202 302	300	22.2	
0661 202 350	350	20	
0661 202 355	350	25.4	
0661 202 455	450	25.4	

CONCRETE MATERIAL BLADES

Concrete 'S' Blades

- The **S10 Concrete** blades are suitable for cutting concrete, light reinforced concrete, medium aggregate concrete, bricks, block paving bricks and lightweight blocks.
- Short, narrow spaced segments for clean cutting and advanced sinter technology with durable hardened steel plate.
- Complies to stringent German UVV VBG49 safety standard.
- Laser engraving on every blade gives article number, safety standard and material application to help alleviate incorrect use.



Art. No.	Ø	Bore	Suitable for	Art. No.	Ø	Bore	Suitable for
0661 402 115	115	22.2		0661 402 300	300	20	
0661 402 230	230	22.2					

- The **S15 Concrete** blades are suitable for cutting light, reinforced concrete, medium aggregate concrete, bricks and lightweight blocks with powerful turbo segments for better cutting performance.



- Advanced sinter technology & durable hardened steel plate.
- Complies to stringent German

UVV VBG49 safety standard.

- Laser engraving on every blade gives article number, safety standard and material application to help alleviate incorrect use.
- 300mm diameter / 20mm bore

Suitable for



Art. No.: 0661 412 300

- The **Profix Turbo** diamond blade is suitable for cutting concrete, light reinforced concrete, medium aggregate concrete, bricks, block paving bricks and lightweight blocks with
- With 10mm continuous rim and advanced sinter technology & durable hardened steel plate, the Turbo complies to stringent German UVV VBG49 safety standard.



Art. No.: 0661 011 300
(300mm Ø / 20mm bore)

RECA Diaflex RS10 Duo

- A specialist and unique diamond blade for cutting and grinding material - can be used to cut material and can also be used to grind off the surface material, and grind edges of the material.
- For use on concrete, granite, natural and artificial stone, and general building material.
- Diamond coated front face 25mm, rear face 7.5mm.
- M14 flange.

Suitable for:



Art. No. 0662 422 125 (125mm)



ABRASIVE MATERIAL

Abrasive materials include:



Asphalt Roadway



Lime Sandstone



Green Concrete



Refractory Brick



RECA Diaflex RS10A

- The RS10A is a premium disc for asphalt and has an extremely hard bond, **laserwelded segment height of 7mm**.
- The risk of severe under cutting is greatly suppressed by the use of drop segments (300mm and above) thus disrupting the abrasive spoil at the base of the cut.
- Diameter 400mm upwards are supplied with special protective segments to combat reverse cutting.
- The RS10A can be used with **asphalt, stone, sandstone, fine clay, lightweight aerated concrete blocks** and all abrasive materials.

Suitable for:



Art. No.	Ø	Bore
0661 113 115	115	22.2
0661 113 125	125	22.2
0662 113 230	230	22.2

Art. No.	Ø	Bore
0661 213 355	350	25.4
0664 413 450	450	25.4
0662 113 231	230	M14 flange*

*for flat cutting



RECA Diaflex RS10AT

- The RS10AT is a premium disc **for asphalt** and has an extremely hard bond, **segment height 10mm**.
- The risk of severe under cutting is greatly suppressed by the use of **TCT INSERTS** thus disrupting the abrasive spoil at the base.
- For use on **asphalt, stone, sandstone, fine clay** and all abrasive materials.

Suitable for:



Art. No.	Ø	Bore
0661 413 300	300	20
0661 413 355	350	25.4



RECA Diaflex RS10AE

- Professional quality blade ideal for use in asphalt, stone, breeze or soft block and all abrasive materials.
- Hard bond, segment height 10mm.
- Risk of severe undercutting is greatly reduced by the use of 3 drop segments, helping to prevent the blade from wearing thin and/or segment loss.

Suitable for:



Art. No.	Ø	Bore
0661 233 300	300	20
0661 233 355	355	25.4

RECA Diaflex Diamond Blades - Accessories

RECA Sharpening Stone

A man made block purposely designed for sharpening diamond blades. The ultra abrasive block is used to create a new sharp edge. The particles abrade the alloy matrix to reveal fresh, sharp diamonds.

The sharpening stone eliminates the need to find blocks of sand stone, or other similar abrasive materials, that can be bulky or difficult to obtain.



Art. No.: 0664 999 69

RECA No-Key

Quick clamping flange nut for fast mounting and removal of blades used with conventional angle grinders up to a diameter of 230mm without any tools. Tighten by hand.

Art. No.: 0696 603 350



RECA Diaflex All Cut

- Electroplated, segmented diamond cutting disc.
- Extremely aggressive thanks to the high diamond concentration.
- Thin geometry ensures very fast cutting.
- For universal use on plastics, GFRP, metals and many other different materials — virtually everything used in interior construction. Excellent performance, even on tiles, stoneware and cast iron! It is possible to cut abrasive stone materials and concrete, however this will significantly reduce the service life of the disc.



Art. No.	Ø	Bore
0662 191 115	115	22.2
0662 191 125	125	22.2
0662 191 230	230	22.2



RECA Diaflex Ho Bit

- Vacuum-soldered premium universal disc, has been approved for use on angle grinders in accordance with EN 13236. Equipped with large, coarse diamonds. The angular shape of the diamonds prevents scorching when cutting wood and soft materials.
- Application area: Ideal for roofers, gardeners, landscapers and carpenters.
- Field of Application: Wood (including wood containing nails), bitumen strips, roofing felt and roof tiles.

Art. No.	Dia.	Bore
0662 193 125	125mm	22.2
0662 193 230	230mm	22.2

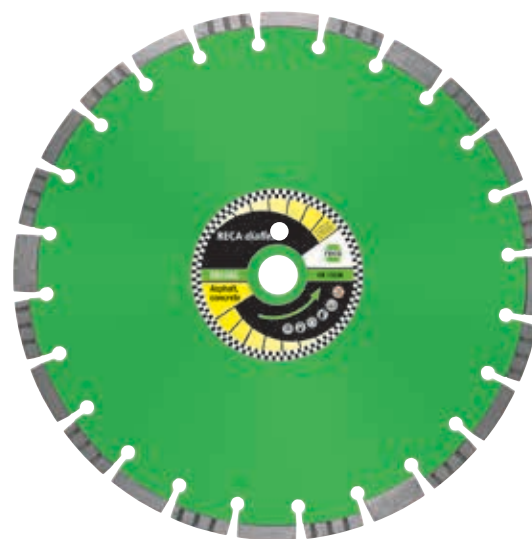


RECA Diaflex RS10 AC

- The RS10 AC is a combination blade for asphalt and abrasive concrete.
- Extremely hard bond, segment height 10mm.
- To help prevent undercutting and the core wearing thin, the blade benefits from 3 drop segments.
- Ideal for highways contractors, local authorities, utilities contractors, civil engineers, driveway contractors and cable laying divisions.

Art. No.	Ø	Bore	
0662 122 230	230	22.2	
0662 122 232	230	M14*	
0662 122 300	300	20	
0662 122 351	350	20	
0662 122 355	350	25	

*M14 Flange for flat cutting





RECA A60/C40 Combination Blade

- The RS10 A60/C40 is a combination blade for asphalt and abrasive concrete with a usable segment height of 10mm (10.5mm in total) to give a long working life.
- The bond is a hard asphalt bond with adjustments to make it suitable to cut a variety of materials.
- The blade has tungsten carbide insert protection tips, this helps in preventing the blade segment wearing thin and/or segment loss.
- Size: 300/20mm

Suitable for:



Art. No.: 0662 222 300

RECA Diaflex FE

- A universal diamond blade for cutting steel or concrete, the FE blade offers an extremely long cutting life - equivalent of up to 200 standard metal cutting discs.
- Unique bond is self cooling, no loss in overall diameter, maximum cutting depth is achieved.
- Especially designed for cutting steel work (max 12mm), cast iron pipe, reinforced concrete, natural stone and aggregate concrete.



Art. No.	Ø	Bore
0664 009 230	230	22.2
0664 009 300	300	20
0664 009 350	350	20
0664 009 355	350	25.4
0664 009 400	400	20

230mm suitable for:



Others suitable for:



RECA Diaflex RS10M

- The RS10M blade is designed for the removal of mortar between brickwork. The clearing of mortar from between bricks creates a hostile environment for a diamond blade. Sand and cement mix is very abrasive and would destroy a normal disc in a very short time.
 - Designed with incredibly hard segments, straight through laser welding and tungsten wear retarding strips, this blade will last and last in the tough job of mortar raking.
 - The wide design helps to channel the mortar dust away from the blade and cuts down on the number of passes required.
- 6mm thick segments to easily deal with abrasive mortar.**

Art. No.	Ø	Bore
0662 702 115	115	22.2
0662 702 125	125	22.2

Suitable for:



RECA Diadrill

- Ideal for drilling holes into harder materials like granite, marble, ceramic tiles and may also be used on porcelain tiles - Suitable for kitchen fitters, plumbers, property and facilities management, and monumental stone masons.
- Features M14 flange, which fits an angle grinder with normally no need for water cooling - however when drilling through thicker materials, factor in a cooling break for the drill.
- An excellent product to drill a quick clean hole in hard materials, there is no messy slurry to clear up after use.



Art. No.	Ø	Overall Length
0663 700 006	6mm	15mm
0663 700 008	8mm	15mm
0663 700 010	10mm	15mm
0663 700 020	20mm	70mm
0663 700 025	25mm	70mm

Art. No.	Ø	Overall Length
0663 700 030	30mm	70mm
0663 700 035	35mm	70mm
0663 700 040	40mm	70mm
0663 700 050	50mm	70mm

RECA Diadrill 6 Piece Sets

M14 Shank Set

- Contains 5, 6, 8, 10, 12 and 14 mm ceramic drills - for use on all commercially available angle grinders

Art. No.: 0663 700 6



6mm Hexagon Shank Set

- Contains 5, 6, 8, 10, 12 and 14 mm Ceramic drills, for use on all commercially available cordless drills and conventional drills. NO impact, ever!

Art. No.: 0663 706 6



RECA Wet Diamond Cores

A premium quality range of cores for drilling into reinforced concrete, masonry, natural and artificial stone.

- 1/2" fitting - 12 - 35mm
- 1 1/4" fitting - 42 - 200mm
- NB. Can only be used on machine for wet drilling.
- Adaptor for DD100 1/2 female available (Art. No. 0663 920 008)
- Other sizes available (POA)



Art. No.	Ø	Overall Length	No. of Segments	Art. No.	Ø	Overall Length	No. of Segments
0663 120 012	12	300	Ring	0663 230 056	56	420	5
0663 120 014	14	300	Ring	0663 230 072	72	420	7
0663 120 018	18	300	Ring	0663 230 082	82	420	7
0663 120 022	22	300	Ring	0663 230 102	102	420	9
0663 230 040	40	420	5	0663 230 122	122	420	10



RECA Green X

- An extremely lightweight and hard wearing all-rounder for dry surface grinding and machining the surface or edges of stone and concrete.
- For use on hard artificial stone, granite, marble, hard plastics and can be used on steel and wood.
- 125mm Ø / 22.2mm Bore



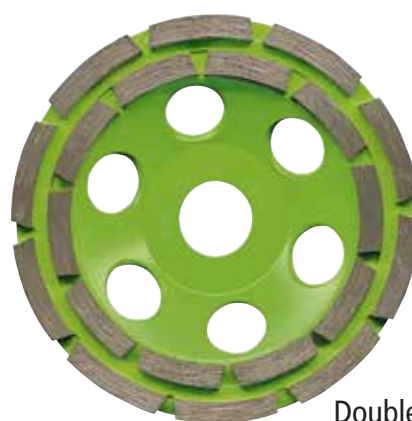
Art. No.: 0662 652 125

RECA Diamop

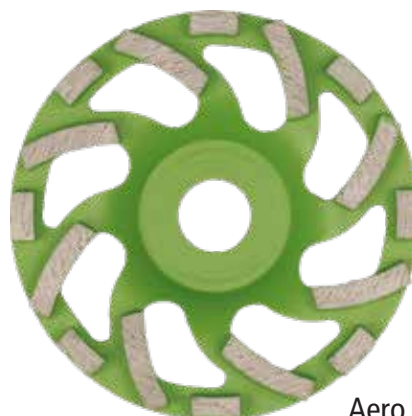
Indispensable when working with concrete and various masonry surfaces, the **RECA Diamop** offers fast and clean grinding on concrete when using angle grinders with dust extraction.

Applications:

- Removal of screeds, skins and coverings including graffiti, colours, dyes, tar or bitumen-paints from masonry surfaces plus levelling and preparing under surfaces for industrial floors.
- Grind all concrete 'noses' and shuttering mould impressions.
- Surfaces can be polished to a smooth finish.
- For dry grinding of concrete, screed, terrazzo, marble, granite, lime plaster, sandstone, etc. - Ideal for removing uneven surfaces on exposed aggregate concrete.
- Available in 'Aero' style which offers a fan effect to provide cool grinding and reduces any blue colouring of the work piece.
- M14 flange on disc internal thread screws straight on to grinder.



Double



Aero

Art. No.	Type	Ø	Bore
0662 622 100	Double	100	22.2
0662 622 125	Double	125	22.2
0662 602 125	Aero	125	22.2
0662 622 180	Double	180	22.2
0662 602 180	Aero	180	22.2

RECA Grinding Cup

- A diamond grinding cup with turbo segments and M14 connection for use with 115mm and 125mm grinder.
- The small size allows the user to grind closer to the edges of piece - Excellent for making repairs and when changing broken tiles.
- The bond is for universal material and also granite. It works also very well on cordless angle grinders because of the weight and reduced resistance.

Application: Ideal on granite and stone plates, ceramic, tiles, concrete and screed.

Art. No.	Type	Dia.	Bore Size
0662 641 050	Turbo	50mm	M14



Troubleshooting

PROBLEM	CAUSE	SOLUTION
Loss of segment.	The material slips during cutting, which causes the blade to twist or jam the segment in the cut, enough to break them.	Hold the material firmly or clamp the material if possible.
	Blade is too hard for the material being cut, causing excessive polishing, and breaking of the segment or fatigue.	Use the proper blade specification for the material being cut. Check the diaflex brochure.
	Defective clamp plates causing the blade to deviate.	Replace the two flanges.
	Overheating due to insufficient water, often indicated by bluing or discoloration of the steel core.	Increase water flow to both sides of the blade.
Undercutting	Wearing of the steel core under the segments is caused by the grinding of the blade in very abrasive materials during cutting. It is usually materials with a high sand content which are responsible for this type of wear. (See also 'loss of segment').	Use a blade with undercutting protection. Also increase the water flow to flush away abrasive slurry.
Cracking in steel blank.	The blade is too hard for the material being cut.	Use a softer bond to eliminate stress on the blade. Check your diaflex brochure or speak to your RECA sales representative.
	Cutting pressure too high or a blade jammed or twisted in the cut may bend or flex the blade's steel blank. When subjected to extreme tension there is a risk of the steel plate cracking in time.	The operator must use stable and even pressure when cutting, and be careful not to twist or jam the blade in the cut.
	Overheating is caused by inadequate water supply or incorrect use of a blade intended for dry cutting.	Use sufficient water to cool the blade for wet cutting. For dry cutting allow air to circulate around the blade to help reduce overheating.
Cracked segments.	The blade is too hard for the material.	Use a blade with a softer bond.
	Excessive cutting speed.	Reduce speed.
Blade will not cut.	The blade is too hard for the material to be cut (for example a blade for a block or a combination blade used for a long period of time on hard brick, a blade for asphalt used to cut reinforced concrete).	Check your diaflex brochure and choose the right blade for the material being cut.
	The blade segments still appear to have some life left, but the blade is not cutting.	Cut an abrasive material to redress the blade. This remedy may occasionally prove necessary. However, if the blade becomes too dull too often, this indicates that it is too hard for the material being cut.

This guide has been prepared to help you find, identify and overcome the problems you may face whilst using a diamond blade. The majority of problems encountered arise from either the blade not being suited to the work, the incorrect use of the blade or a problem with the equipment being used.

	Hard Materials					Med/Hard/Concrete					Abrasive Materials				Specialist Blades						
	RS10F	Ultra H	AX12	Ultra	H	XL10	RS10B	S10	S15	Turbo	RS10A	RS10AT	RS10AE	RS10ABE	All Cut	RS10 Duo	RS10AC	A60/C40	FE	RS10M	Ho Bit
Ceramic Tiles	✓	✓	✓												✓						
Granite		✓	✓	✓	✓										✓	✓			•		
Hard Clay Products		✓		✓	✓																
Engineering Bricks				✓	✓											✓			•		
Concrete/ Reinforced			✓	✓	✓		✓								•				✓		
Concrete Kerbs				✓	✓		✓												✓		
Pre-Cast Paving Slabs				✓	✓	•	•	•													
Medium Bricks			•			✓	•	•	•					✓		✓	✓	✓			
Concrete Pipes			✓			✓	✓		•					✓							
Yorkstone				✓							•	•	•			✓	✓	✓			
Concrete Pavias				✓		✓	✓	•	✓	✓				✓			•	•			
Concrete Roof Tiles			•			✓			•					✓			✓	•			
Abrasive Concrete Products																	✓	✓			
Soft Brick										✓	✓	✓	•			✓	✓	✓			
Green Concrete											✓	✓	✓								
Cement Screed																	✓	✓			
Lightweight Concrete Blocks										✓					•		✓	✓			
Asphalt Concrete Mix																	✓	✓			
Asphalt Footway													✓								
Asphalt Roadway											✓	✓									
Mortar																				✓	
GFRP, Plastics, Metals															✓						
Wood, Wood with nails																					✓
Bitumen strips, roof felt																					✓

- ✓ Most suitable excellent performance and lifetime
- Suitable, good performance and lifetime



Visit  www.reca-uk.com or  eshop.reca-uk.com to see our extensive range of products.

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