


CUTTING, GRINDING & FINISHING

PRODUCT CATALOGUE

For more information visit us at:
www.cgwheels.com



Contents

Company Profile	2-3
The Label	4
Technical Information	5
 Extreme Discs	6-7
3in1 Discs	8
Cutting Discs and Grinding Wheels Rail Tracks	9
Cutting Discs Metal & Steel	10
Grinding Discs Metal & Steel	11
Cutting Discs Stainless Steel	12
Grinding Discs Stainless Steel; Cutting Discs Aluminium	13
Zirconia Cutting and Grinding Discs	14
Cutting and Grinding Discs Masonry	15
Chop Saw Cutting Discs	16
Stationary Saw Discs	17
High Speed Cutting Discs	18
Pipeline Discs for Metal & Steel	19
Flap Discs	20-22
Fibre Discs	23-25
Safety Guide for the Use of Abrasive Wheels	26-27
Vitrified Grinding Wheels: Products by Category	28-29
Application Guide	30



Company Profile

CGW Company Profile

For more than 60 years, CGW - Camel Grinding Wheels - Israel's only abrasives manufacturer, has been the first choice in grinding and cutting products for both local and international markets. CGW's ceramic (vitrified) bond and organic (resinoid) bond products are available in more than 75 countries throughout North and South America, Europe, Africa, Asia and Australia, in locations from small machine shops to advanced manufacturing centers. In North America, our subsidiary in Chicago, CGW-USA, maintains a large warehouse and manufacturing facility, and our converter of coated abrasives is located in Los Angeles. We take pride in developing and producing high-quality, high-performance products to meet the technological challenges of grinding conventional metals and today's sophisticated alloys. CGW products are manufactured under strict quality control. CGW is certified to the highest industrial standards: EN 12413, EN 13743, ANSI B7.1, ISO 18001, ISO 14001 and OSA.

CGW's 5-Point Manufacturing & Operating Philosophy

1 Advanced in-house development and production

Our in-house R&D and engineering teams, supported by our laboratories and testing facilities, allow us to continually improve existing products and to develop high-precision solutions to meet exact customer specifications.

2 Efficient planning and scheduling

Our streamlined system for coordinating between the sales and production departments allows a quick turnaround - even for small or rush orders - and a fast response to unexpected schedule changes.

3 Ongoing, stringent quality control

Our manufacturing processes and maintenance of our production facilities comply with strict international quality, safety, and environmental standards.

4 On-time, error-free shipments

We work diligently to prevent delays and mistakes from the moment an order is placed until the day it is shipped.

5 "The best service in the world"

Our decades of industry leadership are based on a company-wide commitment to exceptional customer service. Through this unconditional dedication, we have forged long-standing partnerships with customers throughout the world.

Our attention to detail and commitment to excellence is reflected in our products: They have earned a worldwide reputation for high quality, consistency, and cost-effectiveness.

An Industry Leader in Abrasive Products

CGW manufactures thousands of products for use in the aerospace, automotive, gas turbine, oil rig, construction, and other industries.

Our broad product range includes wheels for -

surface grinding | centerless grinding | cylindrical grinding | off-hand grinding | creep-feed grinding | cutting off (reinforced and non-reinforced)

We don't say we invented the wheel, we just know how to make it better!

The Label



Abrasive Types

A	Aluminium Oxide: The most common of all grains, used for heavy-duty, general-purpose work
WA	White Aluminium Oxide: The high friability of this grain gives it the characteristic of fast and cool cutting Used for light grinding of steel of all kinds, particularly stainless and tool steel
ZA	Zirconia Aluminium Oxide: For high-performance grinding and very long life Excellent on ferrous metals, castings, and stainless steel
C	Silicon Carbide: For grinding masonry, concrete, stone, and non-ferrous metals

Technical Information

Grinding Wheel Quality

The quality of grinding wheel performance is related to the specific conditions of a given application, such as type of machine and composition of workpiece, and is evaluated according to two criteria: G-Ratio and Efficiency.

1) G-Ratio or Grinding Ratio

In grinding applications this is the ratio of the weight of material removed to the loss of grinding wheel weight over a given period of time.

This ratio is equivalent to the length of wheel life for a specific application.

In cutting applications, it is the ratio of the area of material cut to the area of the cut-off wheel lost. The higher the ratio, the more work the wheel will do.

	Grinding Applications	Cutting Applications
G-Ratio Calculation	$G = \frac{\text{material removed (gr.)}}{\text{wheel weight loss (gr.)}}$	$G = \frac{\text{section area x no. of cuts (cm}^2\text{)}}{\text{wheel area loss (cm}^2\text{)}}$

2) Efficiency

This indicates the rate of material removal (grams/min.) in grinding applications, or the total area of the material that has been cut in a given period of time (cm²/min.) in cutting applications.

	Grinding Applications	Cutting Applications
Efficiency Calculation	$E = \frac{\text{material removed (gr.)}}{\text{test period (min.)}}$	$Q = \frac{\text{section area x no. of cuts (cm}^2\text{)}}{\text{test period (min.)}}$

EXTREME

New!

Thin Cutting Discs



**For Cool, Clean, Fast Cutting
with much longer life span**

CGW is proud to present the EXTREME, a new line of Thin Cutting Discs developed with most advanced technology to achieve optimum results.

Especially designed for the professional market, CGW EXTREME delivers significant increase in cutting, speed and number of cuts, for varied metal and stainless applications.

Extreme Discs

Cutting discs for Metal & Steel

Extreme Cutting Discs - The leading technological line with best performance: long life and exceptionally high stock removal rate.



Angle
Grinder

80 m/s



Extreme Cutting Discs for Metal & Steel

Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
4x ³ / ₆₄ x ⁵ / ₈	100x1.0x15.88	A 46 TBF	846047	15,300	25	
4 ¹ / ₂ x ³ / ₆₄ x ⁷ / ₈	115x1.0x22.23	A 46 TBF	851416	13,300	25	
4 ¹ / ₂ x ¹ / ₁₆ x ⁷ / ₈	115x1.6x22.23	A 46 TBF	846160	13,300	25	
5x ³ / ₆₄ x ⁷ / ₈	125x1.0x22.23	A 46 TBF	851423	12,250	25	
5x ¹ / ₁₆ x ⁷ / ₈	125x1.6x22.23	A 46 TBF	846139	12,250	25	
7x ¹ / ₁₆ x ⁷ / ₈	180x1.6x22.23	A 46 TBF	846108	8,500	25	
9x ⁵ / ₆₄ x ⁷ / ₈	230x2x22.23	A 46 TBF	846061	6,650	25	



Angle
Grinder

80 m/s



Extreme Cutting Discs for Stainless Steel

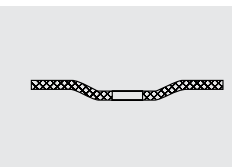
Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
4x ³ / ₆₄ x ⁵ / ₈	100x1.0x15.88	WA 46 SBF	846054	15,300	25	
4 ¹ / ₂ x ³ / ₆₄ x ⁷ / ₈	115x1.0x22.23	WA 46 SBF	846177	13,300	25	
4 ¹ / ₂ x ¹ / ₁₆ x ⁷ / ₈	115x1.6x22.23	WA 46 SBF	851393	13,300	25	
5x ³ / ₆₄ x ⁷ / ₈	125x1.0x22.23	WA 46 SBF	846146	12,250	25	
5x ¹ / ₁₆ x ⁷ / ₈	125x1.6x22.23	WA 46 SBF	851409	12,250	25	
7x ¹ / ₁₆ x ⁷ / ₈	180x1.6x22.23	WA 46 SBF	846122	8,500	25	
9x ⁵ / ₆₄ x ⁷ / ₈	230x2x22.23	WA 46 SBF	846092	6,650	25	

3-in-1 Discs


Cutting, Grinding, & Finishing of Stainless and High Carbon Steels

Top performance in a single disc:

- Fast, high-quality cutting
- Great grinding and weld stock removal
- Excellent surface finishing
- Contaminant free: Fe-S-Cl≤0.1%, designed for use on stainless steel
- Additional fibreglass net provides extra strength and flexibility
- Ideal for a wide variety of metal and stainless steel applications: particularly recommended for cutting metal profiles and thin pipes, and removing weld slag
- Highly cost effective: Eliminate frequent disc changes; stock fewer discs
- Use instead of a flap disc for an excellent finish to the workpiece surface



Angle Grinder80 m/s



Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
4 1/2 x 3/32 x 7/8	115 x 2.5 x 22.23	A 36 SBF	812783	13,300	25	
5 x 3/32 x 7/8	125 x 2.5 x 22.23		814879	12,250	25	
7 x 1/8 x 7/8	180 x 3.2 x 22.23		870066	8,500	25	
9 x 1/8 x 7/8	230 x 3.2 x 22.23		886746	6,650	25	

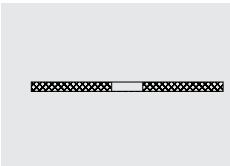
Track Slicer

Cutting Discs for Rail Tracks


A - Aluminium Oxide

CGW Track Slicer doubled reinforced high performance disc for rail track cutting.

- Designed for fast, free cutting for heavy-duty rail
- Maintains straight geometry of the cut
- Maximize productivity with high number of cuts per disc



High Speed Petrol/Gas Saw100 m/s



Dimensions		Spec.	EAN No.	R.P.M.	M/S
Inches	mm				
12 x 5/32 x 1	305 x 4 x 25.4	A 24 SBF	938810	6,400	100
12 x 5/32 x 7/8	305 x 3.8 x 22.23		975730	6,400	100
14 x 5/32 x 1	356 x 4 x 25.4		587261	5,500	100
16 x 5/32 x 1	402 x 4 x 25.4		827596	4,800	100

Grinding Wheels

for Rail Profile Grinding

CGW resin bonded grinding wheels especially produced for use in the rail industry for the maintenance and repair of the rail. With advance technology, CGW grinding wheels designed to re-profile the rail track and remove small defects from the surface.


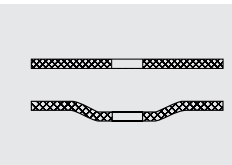


Dimensions	Spec.	Type	EAN No.	R.P.M.	M/S
mm					
150 x 72 x 57	A 16 Q4B	4 x M8	191543	6,400	50
125 x 65 x M20		T-6 (NUT)	001156	7,650	50
147 x 65 x 5/8"		T-6 (NUT)	916016	6,400	50

Cutting Discs
for Metal & Steel


A - Aluminium Oxide

Cutting discs designed for sharp, clean, cutting action on carbon steels, stainless steel, and other alloys.





Angle
Grinder



80 m/s



Thin Discs for Metal & Steel Cutting

Dimensions		Spec.	EAN No.		R.P.M.	Quantity	
Inches	mm					Box	Master Box
4x ³ / ₆₄ x ⁵ / ₈	100x1.0x16	A 46 TBF	638642		15,300	25	
4x ¹ / ₁₆ x ⁵ / ₈	100x1.6x16	A 36 TBF	638659		15,300	25	
4 ¹ / ₂ x ³ / ₆₄ x ⁷ / ₈	115x1.0x22.23	A 46 TBF	878437		13,300	25	
4 ¹ / ₂ x ¹ / ₁₆ x ⁷ / ₈	115x1.6x22.23	A 36 TBF	311842	696611	13,300	25	
4 ¹ / ₂ x ⁵ / ₆₄ x ⁷ / ₈	115x2.0x22.23	A 36 TBF	457854		13,300	25	
5x ³ / ₆₄ x ⁷ / ₈	125x1.0x22.23	A 46 TBF	878444		12,250	25	
5x ¹ / ₁₆ x ⁷ / ₈	125x1.6x22.23	A 36 TBF	311873		12,250	25	
5x ⁵ / ₆₄ x ⁷ / ₈	125x2.0x22.23	A 36 TBF	639618		12,250	25	
6x ³ / ₆₄ x ⁷ / ₈	155x1.2x22.23	A 46 TBF	639687		10,200	25	
6x ¹ / ₁₆ x ⁷ / ₈	155x1.6x22.23	A 36 TBF	640140		10,200	25	
6x ⁵ / ₆₄ x ⁷ / ₈	155x2.0x22.23	A 36 TBF	633432		10,200	25	
7x ¹ / ₁₆ x ⁷ / ₈	180x1.6x22.23	A 36 TBF	345045	835911	8,500	25	
7x ⁵ / ₆₄ x ⁷ / ₈	180x2.0x22.23	A 36 TBF	640195		8,500	25	
9x ⁵ / ₆₄ x ⁷ / ₈	230x2.0x22.23	A 36 TBF	312016		6,650	25	

Metal & Steel Cutting


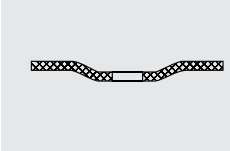
Dimensions		Spec.	EAN No.		R.P.M.	Quantity	
Inches	mm					Box	Master Box
4 ¹ / ₂ x ¹ / ₈ x ⁷ / ₈	115x3.2x22.23	A 24 RBF	313846	311675	13,300	25	
5x ¹ / ₈ x ⁷ / ₈	125x3.2x22.23	A 24 RBF	313839	311880	12,250	25	
6x ¹ / ₈ x ⁷ / ₈	155x3.2x22.23	A 24 RBF	640171		10,200	25	
6x ¹ / ₈ x ⁷ / ₈	150x3.2x22.23	A 24 RBF		639694	10,200	25	
7x ¹ / ₈ x ⁷ / ₈	180x3.2x22.23	A 24 RBF	315642	311972	8,500	25	
9x ¹ / ₈ x ⁷ / ₈	230x3.2x22.23	A 24 RBF	313822	312023	6,650	25	

Grinding Discs
for Metal & Steel

A 24 RBF - Bond design offers excellent stock removal. Recommended for use on structural steel and welds.


A 24 TBF - High grain concentration, for tough grinding and notching.

A 30 RBF - New combination of grain and bond makes for an easier grind, higher efficiency, and longer life.



Angle
Grinder

80 m/s




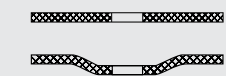
Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
4 ¹ / ₂ x ¹ / ₄ x ⁷ / ₈	115x6.5x22.23	A 24 RBF	311682	13,300	25	
4 ¹ / ₂ x ¹ / ₄ x ⁷ / ₈	115x6.5x22.23	A 30 RBF		13,300	25	
5x ¹ / ₄ x ⁷ / ₈	125x6.5x22.23	A 24 RBF	311903	12,250	25	
5x ¹ / ₄ x ⁷ / ₈	125x6.5x22.23	A 30 RBF		12,250	25	
6x ¹ / ₄ x ⁷ / ₈	150x6.5x22.23	A 24 RBF	639700	10,200	25	
6x ¹ / ₄ x ⁷ / ₈	150x6.5x22.23	A 30 RBF		10,200	25	
7x ¹ / ₄ x ⁷ / ₈	180x6.5x22.23	A 24 RBF	311996	8,500	25	
7x ¹ / ₄ x ⁷ / ₈	180x6.5x22.23	A 30 RBF	992935	8,500	25	
7x ⁹ / ₃₂ x ⁷ / ₈	180x7.0x22.23	A 24 RBF	995387	8,500	25	
9x ¹ / ₄ x ⁷ / ₈	230x6.5x22.23	A 24 RBF	312047	6,650	25	
9x ¹ / ₄ x ⁷ / ₈	230x6.5x22.23	A 30 RBF	992959	6,650	25	

Cutting Discs

for Stainless Steel


WA - White Aluminium Oxide

Designed for sharp, clean cutting action on stainless steel and other alloys.
Contaminant-free: Fe-S-Cl≤0.1%



Angle
Grinder

80 m/s



Thin Discs for Stainless Steel Cutting

Dimensions		Spec.	EAN No.		R.P.M.	Quantity	
Inches	mm					Box	Master Box
4x3/64x5/8	100x1.0x16	WA 46 SBF	461493		15,300	25	
4x1/16x5/8	100x1.6x16	WA 36 SBF	312283		15,300	25	
4x5/64x5/8	100x2.0x16	WA 36 SBF	639540		15,300	25	
4 1/2x3/64x7/8	115x1.0x22.23	WA 46 SBF	878451		13,300	25	
4 1/2x1/16x7/8	115x1.6x22.23	WA 46 SBF	312290	521142	13,300	25	
4 1/2x5/64x7/8	115x2.0x22.23	WA 36 SBF			13,300	25	
5x3/64x7/8	125x1.0x22.23	WA 46 SBF	878468		12,250	25	
5x1/16x7/8	125x1.6x22.23	WA 36 SBF	312320		12,250	25	
5x5/64x7/8	125x2.0x22.23	WA 36 SBF	606146		12,250	25	
6x3/64x7/8	155x1.2x22.23	WA 46 SBF	639717		10,200	25	
6x1/16x7/8	155x1.6x22.23	WA 36 SBF	642038		10,200	25	
7x1/16x7/8	180x1.6x22.23	WA 36 SBF	345052	835928	8,500	25	
7x5/64x7/8	180x2.0x22.23	WA 36 SBF	640201		8,500	25	
9x5/64x7/8	230x2.0x22.23	WA 36 SBF	474684	657674	6,650	25	

Stainless Steel Cutting

Dimensions		Spec.	EAN No.		R.P.M.	Quantity	
Inches	mm					Box	Master Box
4 1/2x1/8x7/8	115x3.2x22.23	WA 24 SBF	551156	312306	13,300	25	
5x1/8x7/8	125x3.2x22.23	WA 24 SBF	639632	616596	12,250	25	
6x1/8x7/8	155x3.2x22.23	WA 24 SBF	640188		10,200	25	
6x1/8x7/8	150x3.2x22.23	WA 24 SBF		639748	10,200	25	
7x1/8x7/8	180x3.2x22.23	WA 24 SBF	551163	312337	8,500	25	
9x1/8x7/8	230x3.2x22.23	WA 24 SBF	534555	312375	6,650	25	



Grinding Discs

for Stainless Steel

WA - White Aluminum Oxide


WA 24 SBF bond is designed for fast stock removal on stainless steel and steel.

Contaminant-free: Fe-S-Cl≤0.1%



Angle
Grinder

80 m/s




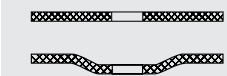
Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
4 1/2x1/4x7/8	115x6.5x22.23	WA 24 SBF	312313	13,300	25	
5x1/4x7/8	125x6.5x22.23	WA 24 SBF	607594	12,250	25	
6x1/4x7/8	150x6.5x22.23	WA 24 SBF	639755	10,200	25	
7x1/4x7/8	180x6.5x22.23	WA 24 SBF	312368	8,500	25	
9x1/4x7/8	230x6.5x22.23	WA 24 SBF	312382	6,650	25	

Cutting Discs

for Aluminium

ALU - Specially Treated Aluminium Oxide

For cutting aluminium and non-ferrous metals.
Special assures non-loading.



Angle
Grinder


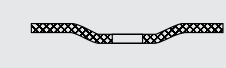
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Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
4 1/2x1/16x7/8	115x1.6x22.23	ALU 36 NBF	640102	13,300	25	
5x1/16x7/8	125x1.6x22.23	ALU 36 NBF	640324	12,250	25	
6x1/16x7/8	155x1.6x22.23	ALU SA 30 NBF		10,200	25	

Cutting Discs
for Metal & Steel


ZA - Zirconia Aluminium Oxide

For high-performance grinding and very long life.
Excellent on ferrous metals, castings, and stainless steel.



Angle
Grinder

80 m/s


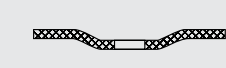


Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
4 1/2 x 1/8 x 7/8	115x3.2x22.23	ZA 24 TBF	989096	13,300	25	
7 x 1/8 x 7/8	180x3.2x22.23	ZA 24 TBF	989157	8,500	25	
9 x 1/8 x 7/8	230x3.2x22.23	ZA 24 TBF	989171	6,650	25	

Grinding Discs
for Metal & Steel


ZA - Zirconia Aluminum Oxide

For high-performance grinding and very long life.
Excellent on ferrous metals, castings, and stainless steel



Angle
Grinder

80 m/s


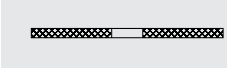


Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
4 1/2 x 1/4 x 7/8	115x6.5x22.23	ZA 24 TBF	673278	13,300	25	
7 x 1/4 x 7/8	180x6.5x22.23	ZA 24 TBF	673285	8,500	25	
7 x 9/32 x 7/8	180x7.0x22.23	ZA 24 RBF	869404	8,500	25	
9 x 1/4 x 7/8	230x6.5x22.23	ZA 24 TBF	673261	6,650	25	

Cutting Discs
for Masonry


C - Silicon Carbide

For cutting masonry, concrete, stone, ceramics,
marble, and non-ferrous metals.



Angle
Grinder

80 m/s





Dimensions		Spec.	EAN No.		R.P.M.	Quantity	
Inches	mm					Box	Master Box
4 x 1/8 x 5/8	100x3.0x16	C 24 RBF		315666	15,300	50	
4 1/2 x 1/8 x 7/8	115x3.2x22.23	C 24 RBF	313884	312207	13,300	50	
5 x 1/8 x 7/8	125x3.2x22.23	C 24 RBF	313877	315673	12,250	50	
7 x 1/8 x 7/8	180x3.2x22.23	C 24 RBF	315659	312221	8,500	25	
9 x 1/8 x 7/8	230x3.2x22.23	C 24 RBF	313815	312245	6,650	25	

Grinding Discs
for Masonry


C - Silicon Carbide

For grinding masonry, concrete, stone, marble, and
non-ferrous metals.



Angle
Grinder

80 m/s





Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
4 1/2 x 1/4 x 7/8	115x6.5x22.23	C 24 RBF		13,300	25	
5 x 1/4 x 7/8	125x6.5x22.23	C 24 RBF	315154	12,250	25	
7 x 1/4 x 7/8	180x6.5x22.23	C 24 RBF	312238	8,500	25	
7 x 9/32 x 7/8	180x7.0x22.23	CA 24 RBF	995363	8,500	25	
9 x 1/4 x 7/8	230x6.5x22.23	C 24 RBF	312252	6,650	25	

Chop Saw Cutting Discs


Used on low-power, light-weight cutoff machines that are popular on building sites because they are portable and can take 12" / 305mm & 14" / 356 mm discs.
For general purpose metal and steel and applications – structural steel cross sections, pipes, and tubing.

- SR** - Single reinforced - For cutting small cross sections and tubings. Free cutting and burr free.
- DR** - Double reinforced - For cutting larger cross sections and tubing. Straight cuts for harder-to-cut materials.



Electric
Portable
Chop Saw

80 m/s



Metal & Steel Cutting | A - Aluminum Oxide



Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
DR 12x7/64"x20mm	305x2.8x20	A 36 TBF		5,100	10	
DR 12x7/64x1	305x2.8x25.4	A 36 TBF	639960	5,100	10	
SR 12x1/8x1	305x3.0x25.4	A 36 TBF		5,100	10	
DR 14x7/64x1	356x2.8x25.4	A 36 TBF	640003	4,400	10	
SR 14x1/8x1	356x3.2x25.4	A 36 TBF	675296	4,400	10	
DR 16x1/8x1	402x3.2x25.4	A 36 TBF		3,850	10	
SR 16x1/8x1	402x3.2x25.4	A 36 TBF	946655	3,850	10	

Stainless Steel Cutting | WA - White Aluminium Oxide

Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
DR 12x7/64x1	305x2.8x25.4	WA 24 SBF	632930	5,100	10	
DR 14x7/64x1	356x2.8x25.4	WA 36 SBF	675784	4,400	10	
SR 14x1/8x1	356x3.2x25.4	WA 36 SBF	640072	4,400	10	
SR 16x1/8x1	402x3.2x25.4	WA 36 SBF	660377	3,850	10	


Stationary Saw Discs

- A - Aluminium Oxide**
For cutting structural steel, bar stock, tubing, and ferrous metals.
- C - Silicon Carbide**
For cutting masonry, concrete, stone, and non-ferrous metals.
For use on stationary machines.



Electric
Stationary
Saw

80 m/s



Metal & Steel Cutting | A - Aluminium Oxide

Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
12x1/8x1	305x3.5x25.4	A 24 RBF	312061	5,100	10	
14x1/8x1	356x3.5x25.4	A 24 RBF	312078	4,400	10	
16x5/32x1	402x4.0x25.4	A 24 RBF		3,850	10	

Masonry, Concrete & Stone Cutting | C - Silicon Carbide

Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
12x1/8x1	305x3.5x25.4	C 24 RBF	640249	5,100	10	
14x1/8x7/8	356x3.5x22.23	C 24 RBF	329670	4,400	10	
14x1/8x1	356x3.5x25.4	C 24 RBF	640041	4,400	10	

High Speed Cutting Discs

A - Aluminium Oxide

For cutting steel and all ferrous metals.

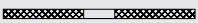
C - Silicon Carbide


For cutting stone, concrete, and brick.

These discs are designed for cutting structural steel, solids, pipes, and tubing.

For use on portable high-speed petrol/gas-driven saws.







High Speed
Petrol/Gas Saw

100 m/s

Metal & Steel Cutting | A - Aluminium Oxide

Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
12x ⁵ / ₃₂ "x20mm	305x4.0x20	A 24 RBF		6,400	10	
12x ⁵ / ₃₂ x ⁷ / ₈	305x4.0x22.23	A 24 RBF	315147	6,400	10	
12x ⁵ / ₃₂ x1	305x4.0x25.4	A 24 RBF	639977	6,400	10	
14x ⁵ / ₃₂ "x20mm	356x4.0x20	A 24 RBF		5,500	10	
14x ⁵ / ₃₂ x1	356x4.0x25.4	A 24 RBF	640027	5,500	10	
16x ¹ / ₄ x1	402x4.5x25.4	A 24 RBF	640256	4,800	10	

Masonry, Concrete & Stone Cutting | C - Silicon Carbide

Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
12x ⁵ / ₃₂ "x20mm	305x4.0x20	C 24 RBF	315055	6,400	10	
12x ⁵ / ₃₂ x ⁷ / ₈	305x4.0x22.23	C 24 RBF	315079	6,400	10	
12x ⁵ / ₃₂ x1	305x4.0x25.4	C 24 RBF	639984	6,400	10	
14x ⁵ / ₃₂ "x20mm	356x4.0x20	C 24 RBF		5,500	10	
14x ⁵ / ₃₂ x1	356x4.0x25.4	C 24 RBF		5,500	10	

Pipeline Discs

for Metal & Steel

A 24 TBF - Aluminium Oxide


For fast cutting and light grinding of ferrous metals


ZA 24 TBF - Zirconia Aluminum Oxide

High performance design for fast cutting and longer life. Excellent cutting of ferrous metals and stainless steel

Depressed center disc (thickness 4mm: 1/8") engineered for cutting and light grinding, especially of pipeline root pass and welds







Angle
Grinder

80 m/s

Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
4 ¹ / ₂ x ¹ / ₈ x ⁷ / ₈	115x4.0x22.23	A 24 TBF	996360	13,300	25	
4 ¹ / ₂ x ¹ / ₈ x ⁷ / ₈	115x4.0x22.23	ZA 24 TBF	995233	13,300	25	
5x ¹ / ₈ x ⁷ / ₈	125x4.0x22.23	A 24 TBF	677085	12,250	25	
5x ¹ / ₈ x ⁷ / ₈	125x4.0x22.23	ZA 24 TBF	989119	12,250	25	
6x ¹ / ₈ x ⁷ / ₈	150x4.0x22.23	A 24 TBF	989072	10,200	25	
6x ¹ / ₈ x ⁷ / ₈	150x4.0x22.23	ZA 24 TBF	989133	10,200	25	
7x ¹ / ₈ x ⁷ / ₈	180x4.0x22.23	A 24 TBF	060016	8,500	25	
7x ¹ / ₈ x ⁷ / ₈	180x4.0x22.23	ZA 24 TBF	060023	8,500	25	
9x ¹ / ₈ x ⁷ / ₈	230x4.0x22.23	A 24 TBF	915330	6,650	25	
9x ¹ / ₈ x ⁷ / ₈	230x4.0x22.23	ZA 24 TBF	989195	6,650	25	

Flap Discs

ZA - Zirconia Alumina grain

For use on stainless steel, sheet metal, tool steels, heat-treated steels, and for the grinding & finishing of welds. For aggressive use on heavy duty applications.

T-27 / Flat - most efficient when used at an angle of 0° - 15°.

T-29 / Conical - for work on contours and edges. Best used at an angle of 15° - 25°.



Type 27

Type 29

Angle Grinder

80 m/s

Grit	EAN No.		Dimensions		R.P.M.	Quantity	
	T-27	T-29	Inches	mm		Box	Master Box
36	239962	239979	4 ⁵ / ₈	102x16	15,300	10	
	240500	240517	4 ¹ / ₂ x7 ⁷ / ₈	115x22.23	13,300		
	241316	241323	5x ⁷ / ₈	125x22.23	12,250		
	241910	241927	7x ⁷ / ₈	180x22.23	8,500		
40	240012	240029	4 ⁵ / ₈	102x16	15,300	10	
	240630	240647	4 ¹ / ₂ x7 ⁷ / ₈	115x22.23	13,300		
	241378	241385	5x ⁷ / ₈	125x22.23	12,250		
	242016	242023	7x ⁷ / ₈	180x22.23	8,500		
60	240142	240159	4 ⁵ / ₈	102x16	15,300	10	
	240906	240913	4 ¹ / ₂ x7 ⁷ / ₈	115x22.23	13,300		
	241477	241484	5x ⁷ / ₈	125x22.23	12,250		
	242252	242269	7x ⁷ / ₈	180x22.23	8,500		
80	240241	240258	4 ⁵ / ₈	102x16	15,300	10	
	241095	241101	4 ¹ / ₂ x7 ⁷ / ₈	115x22.23	13,300		
	241569	241576	5x ⁷ / ₈	125x22.23	12,250		
	242412	242429	7x ⁷ / ₈	180x22.23	8,500		
120	240296	240302	4 ⁵ / ₈	102x16	15,300	10	
	241231	241248	4 ¹ / ₂ x7 ⁷ / ₈	115x22.23	13,300		
	241651	241668	5x ⁷ / ₈	125x22.23	12,250		
	242542	242559	7x ⁷ / ₈	180x22.23	8,500		

Ceramic Flap Discs

CGW'S new ceramic flap disc is the best choice for grinding stainless steel, titanium, Inconel, and other hard metals. Using CGW's ceramic flap disc will give a "cool grinding surface" since the grain has a self-sharpening formula.



Type 27

Type 29

Angle Grinder

80 m/s

Grit	EAN No.		Dimensions		R.P.M.	Quantity	
	T-27	T-29	Inches	mm		Box	Master Box
40	908530		4 ⁵ / ₈	102x16	15,300	10	
		833047	4 ¹ / ₂ x7 ⁷ / ₈	115x22.23	13,300		
		833054	5x ⁷ / ₈	125x22.23	12,250		
		833078	7x ⁷ / ₈	180x22.23	8,500		
60	013272		4 ⁵ / ₈	102x16	15,300	10	
		826001	4 ¹ / ₂ x7 ⁷ / ₈	115x22.23	13,300		
		826018	5x ⁷ / ₈	125x22.23	12,250		
		833085	7x ⁷ / ₈	180x22.23	8,500		
80	013289		4 ⁵ / ₈	102x16	15,300	10	
		833030	4 ¹ / ₂ x7 ⁷ / ₈	115x22.23	13,300		
		833061	5x ⁷ / ₈	125x22.23	12,250		
		833092	7x ⁷ / ₈	180x22.23	8,500		

Economy Line Flap Discs

ZA - Zirconia Alumina grain
An economical alternative to the standard disc.



Type 27

Type 29

Angle Grinder

80 m/s

Grit	EAN No.		Dimensions		R.P.M.	Quantity	
	T-27	T-29	Inches	mm		Box	Master Box
ZA 36	895939	894093	4x5/8	102x16	15,300	10	
		885930	4 1/2x7/8	115x22.23	13,300		
	999019	888641	5x7/8	125x22.23	12,250		
			7x7/8	180x22.23	8,500		
ZA 40	887989	892884	4x5/8	102x16	15,300	10	
	827657	892907	4 1/2x7/8	115x22.23	13,300		
	898350	886708	5x7/8	125x22.23	12,250		
	937868	903443	7x7/8	180x22.23	8,500		
ZA 60	929597	974894	4x5/8	102x16	15,300	10	
	827664	886432	4 1/2x7/8	115x22.23	13,300		
	898374	898367	5x7/8	125x22.23	12,250		
	920471	903450	7x7/8	180x22.23	8,500		
ZA 80	887996		4x5/8	102x16	15,300	10	
	827671	887347	4 1/2x7/8	115x22.23	13,300		
	947096	901678	5x7/8	125x22.23	12,250		
	044764		7x7/8	180x22.23	8,500		
ZA 120	929603		4x5/8	102x16	15,300	10	
	937851	974887	4 1/2x7/8	115x22.23	13,300		
		901685	5x7/8	125x22.23	12,250		
			7x7/8	180x22.23	8,500		

Resin Fibre Discs

Designed for long life, high stock removal, and cool cutting action – surface sanding and polishing, rust and paint removal, deburring and weld blending.
To be used only with backup pad (see page 34).

- Aluminium Oxide** - For metal & stainless steel.
- Silicon Carbide** - Excellent on fiberglass, plastics and masonry products.
- Zirconia Alumina** - For metal and stainless steel. Has twice the cutting action of aluminium oxide discs and is extremely heat resistant. Best performance on welds, stainless steel, Inconel and all tool steels.



Angle Grinder

80 m/s

Fibre Discs - Aluminium Oxide

Grit	EAN No.	Dimensions		R.P.M.	Quantity	
		Inches	mm		Box	Master Box
A 16		4 1/2x7/8	115x22.23	13,300	25	
	225507	7x7/8	180x22.23	8,500		
A 24	225279	4 1/2x7/8	115x22.23	13,300	25	
	225521	7x7/8	180x22.23	8,500		
A 36	225286	4 1/2x7/8	115x22.23	13,300	25	
	225545	7x7/8	180x22.23	8,500		
A 50	225293	4 1/2x7/8	115x22.23	13,300	25	
	225569	7x7/8	180x22.23	8,500		
A 60	225309	4 1/2x7/8	115x22.23	13,300	25	
	225583	7x7/8	180x22.23	8,500		
A 80	225316	4 1/2x7/8	115x22.23	13,300	25	
	225606	7x7/8	180x22.23	8,500		
A 100	225323	4 1/2x7/8	115x22.23	13,300	25	
	225620	7x7/8	180x22.23	8,500		
A 120	225330	4 1/2x7/8	115x22.23	13,300	25	
	225644	7x7/8	180x22.23	8,500		

Fibre Discs - Silicon Carbide

Grit	EAN No.	Dimensions		R.P.M.	Quantity	
		Inches	mm		Box	Master Box
C 16	225699	4 1/2x7/8	115x22.23	13,300	25	
	225842	7x7/8	180x22.23	8,500		
C 24	225705	4 1/2x7/8	115x22.23	13,300	25	
	225873	7x7/8	180x22.23	8,500		
C 36	225712	4 1/2x7/8	115x22.23	13,300	25	
	225910	7x7/8	180x22.23	8,500		
C 50	225729	4 1/2x7/8	115x22.23	13,300	25	
	225965	7x7/8	180x22.23	8,500		
C 60	225736	4 1/2x7/8	115x22.23	13,300	25	
	225996	7x7/8	180x22.23	8,500		
C 80	225743	4 1/2x7/8	115x22.23	13,300	25	
	226030	7x7/8	180x22.23	8,500		
C 100	225750	4 1/2x7/8	115x22.23	13,300	25	
	226078	7x7/8	180x22.23	8,500		
C 120	225767	4 1/2x7/8	115x22.23	13,300	25	
	226108	7x7/8	180x22.23	8,500		
C 150	225774	4 1/2x7/8	115x22.23	13,300	25	
	226146	7x7/8	180x22.23	8,500		
C 180	225781	4 1/2x7/8	115x22.23	13,300	25	
	226177	7x7/8	180x22.23	8,500		
C 220	225798	4 1/2x7/8	115x22.23	13,300	25	
	226207	7x7/8	180x22.23	8,500		
C 240	225804	4 1/2x7/8	115x22.23	13,300	25	
	226245	7x7/8	180x22.23	8,500		
C 280	225811	4 1/2x7/8	115x22.23	13,300	25	
	226269	7x7/8	180x22.23	8,500		
C 320	225828	4 1/2x7/8	115x22.23	13,300	25	
	226290	7x7/8	180x22.23	8,500		
C 400	225835	4 1/2x7/8	115x22.23	13,300	25	
	226320	7x7/8	180x22.23	8,500		

Fibre Discs - Zirconia Alumina

Grit	EAN No.	Dimensions		R.P.M.	Quantity	
		Inches	mm		Box	Master Box
ZA 16		4 1/2x7/8	115x22.23	13,300	25	
		7x7/8	180x22.23	8,500		
ZA 24	683680	4 1/2x7/8	115x22.23	13,300	25	
		7x7/8	180x22.23	8,500		
ZA 36	683697	4 1/2x7/8	115x22.23	13,300	25	
		7x7/8	180x22.23	8,500		
ZA 50	683703	4 1/2x7/8	115x22.23	13,300	25	
		7x7/8	180x22.23	8,500		
ZA 60	683710	4 1/2x7/8	115x22.23	13,300	25	
		7x7/8	180x22.23	8,500		
ZA 80	683734	4 1/2x7/8	115x22.23	13,300	25	
		7x7/8	180x22.23	8,500		
ZA 100		4 1/2x7/8	115x22.23	13,300	25	
		7x7/8	180x22.23	8,500		
ZA 120	683741	4 1/2x7/8	115x22.23	13,300	25	
		7x7/8	180x22.23	8,500		

Ceramic Fibre Discs

New product: 115mm and 180mm fibre discs can be ordered with ceramic grain, grits 16–120.

Backup Pads

Dimensions		EAN No.	Quantity
Inches	mm		
4 1/2xM14	115xM14	238927	1
7xM14	180xM14	238934	



Safety Guide for the Use of Abrasive Wheels

Bonded abrasive products are breakable and shall therefore be handled with utmost care. The use of damaged, improperly mounted or improperly used abrasive products is dangerous and can cause serious injuries.

Delivery, Handling and Storage

- Abrasive products shall be handled and transported with care.
- Abrasive products shall be stored in such a manner that they are not subjected to mechanical damage and/or a high level of humidity.

Selection of the Abrasive Product

- Information on the label or the abrasive product, as well as restrictions of use, safety indications or any other instruction, shall be followed.
- Wheels used on any machine shall only be of a type for which the machine is designed.

Inspection

- Prior to mounting, all abrasive wheels shall be visually inspected. Wheels which show evidence of cracks, abusive handling or abusive storage must not be mounted.

Operating Speed

- Machine speed shall be set and measured to make sure that it does not exceed the maximum operating speed designated for the abrasive wheel (ILL. 1).



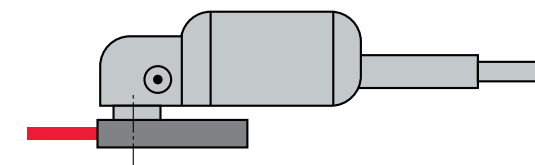
ILL. 1. Observe maximum safe operating speed

Mounting

- The mounting of abrasive wheels shall be carried out according to the instructions provided by both the wheel and the machine manufacturers.
- Mounting of abrasive products shall be carried out by a qualified trained person.
- Flanges and adaptors shall be checked for flatness of bearing surface. Sprung or warped flanges or adaptors, or those which are not clean and free of burrs, must not be used.
- The spindle end nut shall be tightened only enough to drive the wheel and prevent slippage.
- All newly mounted wheels shall be run at operating speed for at least ten seconds before applying to workpiece. No one shall stand in front of or in line with the wheel, and the maximum safe operating speed must not be exceeded.
- In the case of strong vibrations during the test run, the machine shall be stopped, the tightening nut released, the wheel remounted, and the machine restarted. If the strong vibrations persist, the wheel must not be used.
- Arbor hole size: Abrasive wheels shall fit freely but not loosely on the machine spindle. The size of the arbor hole must not be altered to fit the spindle.

Mounting - cont.

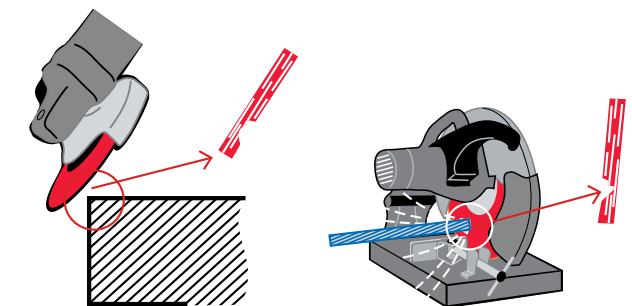
- At the completion of wheel mounting, a safety guard covering at least one half of the wheel shall be in place (ILL. 2). All safety guard fasteners shall be in place and properly tightened. Grinding wheels must not be operated on any machine which has had its safety guard removed.



ILL. 2. Guard covers at least 1/2 of wheel

Operation

- Care shall be taken not to apply excessive pressure between the abrasive wheel and the workpiece, and to prevent the machine from slowing noticeably or the workpiece from becoming overheated.
- Grinding must not be performed on the side of the wheel (ILL. 4).



ILL. 4. Don't grind on side of wheel

Personal Protection

- Safety goggles or safety spectacles shall be worn by all personnel exposed to grinding operations (ILL. 3).
- Where necessary, additional personal protective equipment shall be used, such as face protection, ear protection, respiratory devices, aprons, protective footwear, and protective gloves (ILL. 3).



ILL. 3. Wear personal protective equipment

Vitrified Grinding Wheels: Products by Category

Precision grinding wheels



CGW engineers have developed specially formulated wheels for resharpener single- and multi-point cutting tools, for surface, cylindrical, and all other grinding operations.

For grinding steels and high-speed steels (HSS), CGW offers a large selection of abrasive types: white, blue, red and pink aluminium oxide, and AS (ceramic abrasive). For tungsten carbide applications, we recommend green silicon carbide.

Standard types: 1, 5, 6, 7, 11 & 12. Special types are available on request.

Creep feed grinding wheels



CGW offers a broad range of creep feed grinding wheels for both continuous dressing and periodic (non-continuous) dressing. Our R&D department has developed bonds with

high porosity for wheels of different abrasive types: WAG, WAB, WAY, WAR, AS, RA, PA.

Our large finishing department is equipped with CNC machines that profile wheels according to customer requirements.

Surface grinding wheels



Surface grinding wheels are used for heavy stock removal and precision surface grinding. CGW offers a wide range of sizes, with diameters of up to 25" (625mm), in all types and grits.

Standard types: 1, 2, 5, 6, 7. Segments and special types by request. Abrasive types WA, PA, AZ, RA, AS, GC, DA, C.

Cylindrical grinding wheels



Wheels for general purpose cylindrical grinding applications (O.D. grinding) are available in all abrasive types and profiles, up to 25" (625mm) in diameter.

Standard types: 1, 5, 6, 7, 20, 21, profile N.

Special profiles are available on request.

Abrasive types: WA, PA, AZ, RA, AS, GC, DA.

Centerless grinding wheels



CGW manufactures a wide range of dimensions in centerless and regulating wheels, for three types of feed grinding:

Thrufeed - the workpiece passes between the grinding and regulating wheels, from one side of the machine to the other.

Infeed - the workpiece is placed on the work-rest between the grinding and the regulating wheels and held in position against the end-stop.

Endfeed - used to produce tapered cylindrical parts. The grinding wheel, the regulating wheel and the workpiece are set in fixed positions, and the workpiece fed from the front to a fixed end-stop.

Centerless wheels: Diameter up to 600mm (24"), Thickness up to 500mm (20").

Regulating wheels: Diameter up to 350mm (14"), Thickness up to 500mm (20").

Toolroom grinding wheels



Toolroom wheels are available in the following abrasive types:

WA (white) for light stock removal, multi-purpose.

PA (pink) for medium stock removal, good for

holding form.

AZ (WAB) (blue) for medium stock removal, good for holding form and for heat-sensitive materials.

RA (red) for heavy stock removal, good for holding form and for heat-sensitive materials.

AS (blue ceramic abrasive grit) for heavy stock removal, good for holding form, long life.

GC (green) for grinding carbide and non-ferrous metals.

Standard types: 1, 6, 11, 12. Additional shapes available on request.

Internal grinding wheels



For grinding internal diameters (bores/holes), one of the most challenging grinding processes.

The recommended wheel for internal

grinding has a diameter of up to 2/3 of the final bore required.

CGW offers all sizes up to 150mm (6") in diameter, types: 1, 5, 6.

Abrasive types: WA, RA, AS, PA, GC. Special types available on request.

Bench grinding wheels



Straight T-1 wheels are used for off-hand tool sharpening and grinding. General purpose vitrified wheels for use on bench and pedestal grinders, CGW bench wheels are available in diameters of

up to 450mm (18").

A - Aluminium Oxide for metal, iron and general use.

GC - Green Silicon Carbide for carbide or non-ferrous metals

WA/WAB: WA for stainless steel; WAB for high-speed steel (HSS).

Dressing wheels, blocks and sticks



CGW produces all types and dimensions of dressing wheels for diamond and CBN wheels, by customer request.

All types of sticks and blocks are available for various applications such as cleaning and knife sharpening (single- or double-layered).

✓ = Recommended | ● = May be used

Cutting															Grinding				
Application		Spec.	Cutting												Grinding				
			A 24 R	A 24 S	A 30 R	A 36 T / A 36 S		A 46 T	ALU 36 N	ASL Razor	WA 24 S	WA 30 S	WA 36 S	WA 46 S	ZA 24 T	C 24 R	A 24 R/A 30 R	ASL Razor	WA 24 R
Ferrous Metals	Angle Iron - General	✓	•	✓	✓	✓	•	✓	•	•	•	•	✓		✓	✓	•	•	
	Iron / Steel Bar	✓	•	✓	✓	✓	•	✓	•	•	•	•	✓		✓	✓	•	•	
	Metal Decking & Cable	•	✓	•	•	•		•	•	•	•	•	•		✓	•	•	•	
	Pipeline	✓	•	✓	✓	✓		✓	•	•	•	•	✓		✓	✓	•	•	
	Wall Studs	✓	•	✓	✓	✓		•	•	•	•	•	✓		✓	•	•	•	
	High Tensile Steel	✓	•	✓	✓	✓		✓	•	•	•	•	✓		✓	✓	•	✓	
	Stainless Steel Sheets	•	•	•	✓	✓		✓	✓	✓	✓	✓	•		•	✓	✓	•	
	Stainless Steel Bars	•	•	•	•	•		✓	✓	✓	✓	✓	•		•	✓	✓	•	
	Rails	•	✓					•							✓	•	✓	✓	
Castings	Cast Steel	•	•	•	•	•	•	•	•	•	•	•	✓		•	•	•	•	✓
	Grey Cast Iron	•	•	•	•	•	•	•	•	•	•	•	✓		•	•	•	•	✓
	Ductile Iron	•	•	•	•	•	•	•	•	•	•	•	✓		•	•	•	•	✓
Non-Ferrous Metals	Aluminium Alloys	•	•	•	•	•	✓	•	•	•	•	•	•			•			•
	Copper	•	•	•	•	•	✓	•	•	•	•	•	•			•			•
	Brass, Bronze	•	•	•	•	•	✓	•	•	•	•	•	✓			•			•
	Titanium	•	•	•	•	•	•	•	•	•	•	•	✓			•			✓
Masonry	Asphalt / Green Concrete												✓						✓
	Concrete												✓						✓
	Roof Tiles												✓						✓
	Slate												✓						✓
	Masonry												✓						✓
	Marble												✓						✓
	Paving Bricks												✓						✓
	Firing Bricks												✓						✓
	Solid Bricks												✓						✓
	Clay Pipe												✓						✓

Notes

[illegible]



Our Values

Professional excellence

We strive for the highest quality in our products and our service.

Integrity and fairness

We are transparent and reliable in our interactions with all our business partners.

Strategic partnerships

We work diligently to make our customers, our suppliers, and our employees our "strategic partners".

Creative innovation

We harness technological leadership, individual and company initiatives, and the will to change, to keep the organization moving forward.



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