



# 2012 PRODUCT CATALOG

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**gro|dan<sup>®</sup>**

*Expect More. Demand Grodan.*

## Why Choose Grodan?

### GRODAN'S REPUTATION

Producing superior-grade Stonewool since 1969, Grodan is known worldwide as the leader in providing a more efficient and cost effective alternative substrate for growing plants. Stonewool is basically basalt (rock) that is heated to 3,000° Fahrenheit and spun like cotton candy into long fibers (wool). Thousands of consumers make a conscience choice to use Grodan Stonewool because it makes their life easier. With Grodan, expect a product that is. . .

- Light weight, pathogen-free, disease-free, seed-free.
- Simple to use because the growing instructions are printed on the packaging.
- 100% sustainable and made from natural basalt rocks.
- Able to wick up and retain moisture for roots to continually absorb nutrients.
- Easy to recycle with many options available.
- User friendly - it has a fast wilt-recovery time and can survive longer if pump should fail.
- pH neutral after simple 30-minute pre-conditioning.
- The most uniform growing substrate available which means fewer variables to go wrong.
- Totally inert, meaning it will not hold back ANY nutrients or water from the plant.
- Efficient - requiring fewer irrigation cycles, extending overall pump life.
- Usable in recirculating systems (unlike soil and peat mixes), reducing fertilizer usage and water costs.
- Backed by unparalleled product support directly from the Grodan manufacturer.
- Certified earth friendly (European Ecolabel).

### LEADING THE WAY

Grodan has established a respectable reputation over the last 40 years and continues to grow by learning from retailers, consumers, and technological advancements.

- **AWARDS AND CERTIFICATIONS:** By adhering to global conservation values and incorporating recycling procedures, Grodan has received the prestigious ECO Label and the Dutch Milieukeur Award. Visit [www.rockwool.com](http://www.rockwool.com) for more details about Grodan's environmental philosophy and factory awards received in several countries.
- **CONSISTENT PRODUCT QUALITY:** Stringent quality controls in Grodan factories (including pulling samples off the line every 20 seconds for testing) ensure consistent uniformity, density, size and weight of the product. Recipient of ISO 14001 for quality excellence.
- **QUALITY OF LIFE.** By teaching individuals how they can grow healthy vegetables using fewer pesticides, less fertilizer, and minimizing water usage, Grodan upholds standards for future generations. Grodan Stonewool has been declared safe by WHO (World Health Organization), and the Stonewool MSDS (Material Safety Data sheet) is available for closer inspection on [www.grodan101.com](http://www.grodan101.com).



*A considerably more thorough certification than O.M.R.I. (Organic Materials Review Institute), the EU Ecolabel is the European standard for factories that produce only environment-friendly products.*

- POSITIVE ENVIRONMENTAL IMPACT.** It has always been a priority that Grodan provide a product that is earth-friendly, and that they lead by example in being socially responsible both in manufacturing and usage. Grodan factories recycle used Stonewool by collecting it from nearby commercial greenhouses, melting it down and adding it to the ingredients to make new Stonewool. Due to the particular manufacturing process, there is absolutely no difference in the quality of the finished product whether derived solely from original basalt, or mixed with used wool. Grodan’s reputation demands it.
- PRODUCT SUPPORT.** Our newly designed Website, [www.grodan101.com](http://www.grodan101.com) contains downloadable brochures, charts, guides, and Gro-SMART videos showing how easy it is to use the product as recommended to achieve maximum results. A designated phone line is available for retailers to call toll-free (888)-444-2476 for immediate technical service. Please advise your customers that all hobbyist can find answers to their questions on our Website or by emailing [info@grodan101.com](mailto:info@grodan101.com).



**MAXIMIZE GROWING POTENTIAL BY USING GRODAN IN HYDRO SYSTEMS**

SYSTEM	RECOMMENDATION	COMPARE TO	WHY USE GRODAN?
Starting Plants	A-OK, Macroplugs or Mini-Blocks	Compressed peat, bark plugs or foam plugs	Grodan retains moisture better. Fast rooting, 100% inert and completely pathogen free.
Drip Irrigation (with reservoir)	GRO-BLOCKS, GROW-CUBES, GROW-CHUNKS, GRO-SLABS	Foam or plastic blocks, perlite, coco mixes	Grodan is cleaner, so the reservoir and table stays cleaner. Less watering needed throughout the day. Faster root growth and more roots in the least amount of space.
Ebb and Flow (with reservoir)	GRO-BLOCKS, GROW-CUBES, GROW-CHUNKS, UNI-SLAB	Clay balls or plastic/foam blocks	Grodan requires fewer watering cycles per day, reducing wear and tear on the pump. No rolling balls to chase. A buffer of moisture protects the plants in the event your pump fails while you are away. Uniform water distribution in Grodan alleviates heavy water saturation at bottom, unlike other media.
Aeroponic	Macroplugs, GROW-CUBES in net baskets, GRO-BLOCKS	Bare roots in neoprene plugs	Roots growing in a little bit of stonewool transplant better than a bare-root cutting. If you have a bare root cutting already, place it in a Macroplug so the roots anchor into some stonewool, to avoid transplant shock.
Deep Water Culture	GROW-CUBES, GROW-CHUNKS	Clay balls	A fine-grade media like Grodan promotes more feeder roots whereas a course-grade media produces mostly anchoring roots. More feeder roots translate into faster growth. Plus, there’s no balls rolling around with Grodan when examining the plant’s roots.
Hand Watering containers (or Drip to Waste)	Gro-Wool, GROW-CUBES, GROW-CHUNKS	Soil-less mixes Coco-mixes	Lightweight and considerably cleaner to use, especially indoors. Gro-Wool is recommended for hand-watering outside because it holds the most moisture, allowing you to water with half the frequency (or less) required for other media. Drip systems require less watering throughout the day and that means less wasted fertilizer and more savings for you. More roots in a smaller container means less space is needed to grow the same size plant.



## Plant Starters

ITEM	NAME	SIZE	UNITS/PACK	PACKS/CASE	UNITS/CASE
1.5" A-OK™	AO 36/40 6/15	1.4" Square x H 1.57"	98	30	2940
2.0" A-OK	AO 50/40 6/15	2.0" Square x H 1.57"	50	30	1500



Use A-Ok Starter Plugs to start seeds and to root cuttings prior to plugging into the UNI-SLAB™ or larger GRO-BLOCKS™. The 1.5" size suits the Gro-SMART™ tray. A-OK plugs are labeled with instructions in a shrink-wrapped sheet that fits a standard 10 x 20 tray (flat). The 1.5" A-Ok fits holes in all Grodan GRO-BLOCKS. \*1" plug (AO 25/40) is special order (200 plugs/NON shrink-wrapped sheet). Check for availability.

ITEM	NAME	SIZE	UNITS/PACK	PACKS/CASE	UNITS/CASE
Macroplug™	Macroplug 36/40	1.5" Round x H 1.57"	50	35	1750

Macroplugs have a slit to allow for the easy insert of a cutting. These loose, round plugs fit perfectly into the GRO-BLOCK hole. For best results with Macroplugs, always insert them into our Gro-SMART™ tray with individual cells. The individual cell will keep the plug firmly closed around the stem of your cutting.

\*Macroplugs are also sold loose in cases of 2,000. Check for availability.



ITEM	NAME	SIZE	UNITS/PACK	PACKS/CASE	UNITS/CASE
1.5" Mini -Blocks™	Delta MM 40/40	1.57" Square x H 1.57"	45	50	2250
2.0" Mini -Blocks	Delta MM 50/40	1.97" Square x H 1.57"	24	60	1440

Mini-Blocks are easy to use when starting from seeds and cuttings. These Mini-Blocks are individually wrapped in white plastic to minimize algae growth, packed in tear-away strips, and labeled with simple instructions. Mini-Blocks can sit in a tray (flat) without support or on the mesh platform side of the Gro-SMART tray. As the plant grows, either remove the wrapping and transplant into any loose media like GROW-CUBES or leave the wrapping on and set it on top of a larger GRO-SLAB.



## GRO-BLOCKS™

NAME	SIZE OF BLOCK	HOLE OR NO HOLE	BLOCKS/PACK	PACKS/CASE	BLOCKS/CASE
Small 3"	3" x 3" x 2.5"	Hole and No Hole	8	48	384
Large 3"	3" x 3" x 4"	Hole only	8	32	256
Small 4"	4" x 4" x 2.5"	Hole only	6	36	216
Medium 4"	4" x 4" x 3.1"	Hole only	6	30	180
Large 4"	4" x 4" x 4"	Hole only	6	24	144
Hugo™	6" x 6" x 6"	Hole only	1	-	48
Big Mama™	8" x 8" x 8"	No Hole	1	-	18

GRO-BLOCKS are like plant containers. If you would typically need a 3" pot for your plant, then choose a 3" GRO-BLOCK. Many plants can be fully grown in larger GRO-BLOCKS. Holes are cut to accommodate a 1.5" A-OK starter plug or a Macroplug. The GRO-BLOCK packaging label displays easy-to-use instructions. Most Grodan is shrink wrapped with clear film for handling comfort. Some products may also be available in your area without the clear film. Please ask your supplier for availability.

Want to minimize algae growth? You can either utilize proper water management or use a block cover such as CubeCap or DripCap. Caps are highly effective in alleviating algae growth but they also slow down the evaporation process. This means you will need to water less frequently. DripCaps are designed for top watering and have a hole on top of the cap to fit ¼" tubing. Using drip irrigation establishes better water management and promotes a more active plant.



## GRO-SLABS™

NAME	SIZE OF SLAB	SLABS / PACK
GRO-SLAB 6"	6" x 3" x 36"	12
GRO-SLAB 8"	8" x 3" x 36"	12
GRO-SLAB 6" Fat	6" x 4" x 36"	9
GRO-SLAB 12" Slab (wetttest)	12" x 3" x 36"	12
UNI-SLAB	8" x 4" x 9.5"	16

GRO-SLABS provide the final stage for growing a large plant. Transplant a well-rooted GRO-BLOCK plant onto a slab just like professional growers. GRO-SLABS are packaged in biodegradable, UV-resistant sleeves for comfortable handling and algae prevention. The UNI-SLAB was designed for a single plant, but can accommodate several fresh herbs or salad greens. 6" and 8" GRO-SLABS may be available in a 40" length, which are more suited for certain vertical systems. Please ask your supplier for details.



## Loose Media

NAME	CUBIC FEET	WEIGHT	BAGS/CASE	FILL 1 GAL. POT*
GROW-CUBES™ - Medium bag	1 Cu. Ft. (28.3 L)	2.28 lbs	6	Approx. 10
GROW-CUBES - Large bag	2.0 Cu. Ft. (56.6 L)	5.0 lbs	3	Approx. 22
GROW-CUBES - Loose in box	6.3 Cu. Ft. (178.4 L)	20 lbs	1	Approx. 69
GROW-CHUNKS™ - Large bag	2.0 Cu. Ft. (56.5 L)	5.0 lbs	3	Approx. 22



GROW-CUBES are loose .4" square cubes of stonewool. Advantages include better aeration, maximum drainage (minimizing the possibility of over-watering a plant), easy mixing with other loose media (such as expanded clay rocks), lightweight and much cleaner than peat-based media. GROW-CHUNKS are a larger version of GROW-CUBES, sized at .8" square. \*A standard one-gallon nursery pot only holds 88 fl. oz., not a whole gallon.



GROW-CUBES vs. GROW-CHUNKS

NAME	VOLUME	WEIGHT
Gro-Wool (Water-Absorbent Granulate)	3.5 Cu. Ft. (99L) compressed	45 lbs

Granulated Stonewool works well on its own or mixed with other loose media such as expanded clay pellets. If planting in containers outdoors, Gro-Wool is an excellent choice.



## Grodan Barcode Quick Guide

A-OK 36/40 6/15  
1.5" A-Ok Starter Plugs  
1.4" Square top, H=1.6"  
98 Cubes/Sheet



A-OK 50/40 6/15  
2" A-Ok Starter Plugs  
2" Square top, H=1.6"  
50 Cubes/Sheet



Macroplugs™ 36/40  
1.5" Macroplug  
L=1.5" Round x H 1.57"  
50 Plugs/Bag, 35 Bags/Case



MM 40/40 6/15  
1.5" Starter Mini-Blocks  
L=1.6", H=1.6", W=1.6"  
15/Strip, 3 Strips/Wrap



MM 50/40 6/15  
2" Starter Mini-Blocks  
L=2", H=1.6", W=2"  
12/Strip, 2 Strips/Wrap



Delta 4 G 42/40  
Sm 3" GRO-BLOCK with Hole  
L=3", H=2.5", W=3"  
8/Strip



Delta 5.6 G 42/40  
Lg 3" GRO-BLOCK with Hole  
L=3", H=4", W=3"  
8/Strip



Delta 6.5 G 42/40  
Sm 4" GRO-BLOCK with Hole  
L=4", H=2.5", W=4"  
6/Strip



Delta 8 G 42/40  
Med 4" GRO-BLOCK with Hole  
L=4", H=3.1", W=4"  
6/Strip



Delta 10 G 42/40  
Lg 4" GRO-BLOCK with Hole  
L=4", H=4", W=4"  
6/Strip



Hugo  
6" GRO-BLOCK with Hole  
L=6", H=6", W=6"



Big Mama  
8" GRO-BLOCK  
L=8", H=8", W=8"



GRO-SLAB 15/75  
6" GRO-SLAB  
L=36", H=3", W=6"



GRO-SLAB 15/100  
6" FAT GRO-SLAB  
L=36", H=4", W=6"



GRO-SLAB 20/75  
8" GRO-SLAB  
L=36", H=3", W=8"



GRO-SLAB 30/75  
12" GRO-SLAB (wetttest)  
L=36", H=3", W=12"



UNI-SLAB  
Single Plant Slab  
L=8", H=4", W=9.5"



GROW-CHUNKS  
Large bag  
2.0 Cu. Ft. (56.6 L)  
3 Bags / Case



GROW-CUBES  
Medium bag  
1.0 Cu. Ft. (28.3 L)  
3 Bags / Case



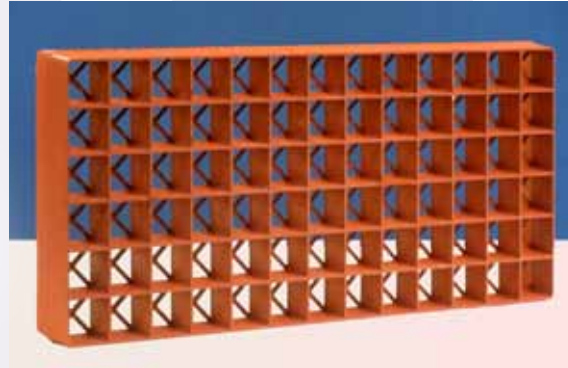
GROW-CUBES  
Large bag  
2.0 Cu. Ft. (56.6 L)  
3 Bags / Case



Gro-Wool  
3.5 Cu. Ft. (99.1 L)  
45 lbs. bale



## Accessories



### GRO-SMART TRAY INSERT

Durable (no sagging), versatile (dishwasher safe), and double-sided. Tray suited for Grodan Macroplugs, 1.5" A-OKs, Mini-Blocks or GRO-BLOCKS. Designed to elevate stonewool above the water line. Fits inside standard 10" x 20" flat. Provides better air circulation around the plug than any other tray on the market. Try it and be amazed at how well it performs.

### ROSE BUCKET

Heavy duty Dutch container. Use with Hugo, GROW-CUBES, GROW-CHUNKS, Gro-Wool or other loose media. Four bottom holes plus four side holes offer optimum drainage. Made in Holland.

Volume: 1.72 gal (6.5 L). Dimensions: 7" (18 cm) square; H 9.75" (25 cm)

### MAXIPOT

The Maxipot can hold two Hugos or loose media. Four bottom holes and four side holes provide optimum drainage. Made in Holland.

Volume: 3.17 gal (12 L). Dimensions: 9.64" (25 cm) square; H 11.4" (29 cm)

### GIANT POT

The heavy duty Giant Pot is the largest we offer. This pot has multiple holes and open space at the bottom, providing plenty of aeration. Made in Holland.

Volume: 4.75 gallons (18 L). Dimensions: 12 x 12 x 12" (30 x 30 x 30 cm)

### DUTCH BUCKETS

Designed for growing systems that use loose media, these buckets include two suited elbows. Using a PVC pipe you easily collect the drain water from each bucket. Made in Holland.

Volume: 2.91 Gal. (11 L)

Dimensions: Surface 12 x 10" (30 x 25 cm), H 9" (22.75 cm), Bottom 8" square (20.25 cm)

### DUTCH LEACH TRAY

Works exceptionally well in keeping 6" GRO-SLABS and Hugo blocks upright, but can be used for all loose media. It has two deep channels for easy drainage. Included are two elbows to be used for drainage or to be used to connect trays. Endcaps are also available.

Volume: 4 gal. (15 L)

Dimensions: W6 x L40 x H4" (15 x 100 x 10 cm)

### DID YOU KNOW

that USA standard sizes of containers do not match their volume capacity?

Std. 1-gal. = holds 88 oz.

Std. 2-gal. = holds 1.6 gal.

Std. 5-gal. = holds 3.6 gal.

## Accessories

### BLACK ANGLED DRIP STAKE

Fits 1/4" irrigation tubing and has a 45° angle to reduce sharp bending of the tubing, which can cause clogging. It delivers a light emission of water for regular top irrigation.



### TWINE CLIPS MEGA

Give your plants the support they need with these terracotta colored twine clips that easily attach to twine in a grow room or greenhouse.

Quantity: Come 9,000 per case. But please ask your supplier if available in smaller quantities.



## Pargro QD™ Products

The leader among affordable horticultural Stonewool, Pargro is, on average, 14% drier than Cultilene® Comfort Blocks™ and 10% dryer than Pargro's previous Neptune line. This makes Pargro the driest, value-priced Stonewool on the market today.

### *Why is the price so low?*

Pargro's no-frills packaging — Minimal marketing and sparse advertising — Limited product line

While other brands may be similarly priced, it is at the expense of product uniformity, strength and overall drainage capabilities. This is not so with Pargro. Pargro is different because it is manufactured in a Grodan factory and must meet strict quality standards. This makes Pargro a value unmatched in the industry.

### **PARGRO QD STARTERS & BLOCKS (Sold in conveniently smaller, half-size cases)**

NAME	SIZE OF UNIT	PACKAGING	QTY / CASE	TOTAL
Pargro QD 1.5" Plug *	1.5"	98/sheet	14 sheets	1372
Pargro QD 1.5" Cube *	1.5"	45/pack	26 packs	1170
Pargro QD 3" Block *	3" x 3" x 2.5"	8/strip	24 strips	192 blocks
Pargro QD NO hole Block *	3" x 3" x 2.5"	8/strip	24 strips	192 blocks
Pargro QD Block (std. size case only) *	4" x 4" x 2.5"	6/strip	36 strips	216 blocks
Pargro QD Block *	4" x 4" x 4"	6/strip	12 strips	72 blocks
Pargro QD JUMBO Block	6" x 6" x 4"	Each	36	36 blocks
Pargro QD BIGGIE Block	6" x 6" x 6"	Each	24	24 blocks

\* Packaged in shrink-wrapped packs with bar codes.












Pargro blocks and cubes may be available without shrink wrap - ask your supplier for details. Choose JUMBO when using a big block in an ebb and flow system. For a dryer top, use the BIGGIE, since capillary movement generally won't rise above 4" in a block on most flood tables. All blocks have holes that fit 1.5" starter plugs.

### **PARGRO QD SLABS**

NAME	SIZE OF UNIT	SLABS / CASE
Pargro QD 8" x 36" Slab	36" x 8" x 3"	12
Pargro QD 6" x 36" Slab	36" x 6" x 3"	12
Pargro QD 6" x 40" Slab	40" x 6" x 3"	12
Pargro V-SLAB 6" x 36" Slab	36" x 6" x 3"	12
Pargro V-SLAB 6" x 40" Slab	40" x 6" x 3"	12

All Pargro QD slabs have vertical fibers. The V-slab is designed specifically for vertical systems. Step-by-step instructions are imprinted on the slab wrapping. The slabs are high density that easily spreads the water from side to side of the slab. In addition, it has much more uniform water distribution. This means there is only a 5% difference in water content between the top and bottom of the slab, whereas competing brands measure nearly 17% difference.

## Pargro QD Product Barcodes

Pargro QD 1.5" Plug 98 plugs/sheet - unwrapped	1372 per case 14 sheets of 98	 8 711698 992622
Pargro QD 1.5" Cube 3 strips of 15 cubes - wrapped	1170 per case 26 packs of 45	 8 711698 992646
Pargro QD 3" Block 3" x 3" x 2.5" - unwrapped	192 blocks per case 24 Strips of 8	 8 711698 992387
Pargro QD Block (NO HOLE) 3" x 3" x 2.5" - wrapped	192 blocks per case 24 strips of 8	 8 711698 994114
Pargro QD Block 4" x 4" x 2.5" - wrapped	216 blocks per case 36 strips of 6	 8 711698 992141
Pargro QD Block 4" x 4" x 4" - unwrapped	72 blocks per case 12 strips of 6	 8 711698 992158
Pargro QD JUMBO Block 6" x 6" x 4"	36 blocks per case Each	 8 711698 991410
Pargro QD BIGGIE Block 6" x 6" x 6"	24 blocks per case Each	 8 711698 991403
Pargro QD 6 x 36" Slab 36" x 6" x 3"	12 slabs per case Each	 8 718232 034169
Pargro V-Slab 40" x 6" x 3"	12 slabs per case Each	 8 718232 010576
Pargro V-Slab 36" x 6" x 3"	12 slabs per case Each	 8 718232 010583



# Grodan Suppliers

Grodan and Pargro products are exclusively available from these fine Master distributors:

## UNITED STATES

<b>BWGS</b>	WWW.BWGS.COM   SALES@BWGS.COM	(USA) 800-316-1306
<b>ECO ENTERPRISES</b>	WWW.ECOGROW.COM   ECOENTER@AOL.COM	(USA) 800-426-6937
<b>HYDROFARM</b>	WWW.HYDROFARM.COM   WHOLESALE@HYDROFARM.COM	(USA) 800-634-9990
<b>NGW</b>	WWW.SUNLIGHTSUPPLY.COM   HYDROINFO@NATIONALGARDENWHOLESALE.COM	(USA) 888-570-4678

## CANADA

<b>BIOFLORAL</b>	WWW.BIOFLORAL.COM   INFO@BIOFLORAL.COM	(USA) 877-384-9376 (CAN) 450-664-4844
<b>EDDI'S WHOLESALE GARDEN</b>	WWW.EDDISWHOLESALE.COM   EDDIS@EDDISWHOLESALE.COM	(USA) 800-663-2934 (CAN) 604-607-4447
<b>GREENSTAR</b>	WWW.GETGREENSTAR.COM   INFO@GETGREENSTAR.COM	(USA) 888-747-4769 (CAN) 604-882-7699
<b>Wholesaler:</b> <b>CANADIAN HYDROGARDENS</b>	WWW.HYDROGARDENS.CA   INFO@HYDROGARDENS.CA	(CAN) 905-648-1801



Grodan donates a percentage of all sales to Hydro for Hunger. To learn how you can help, visit [www.hydroforhunger.com](http://www.hydroforhunger.com).

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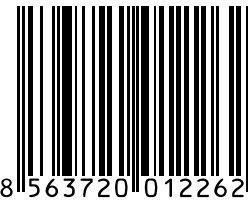
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## 2012 PRODUCT CATALOG

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