

2011 PRODUCT CATALOG

EXPECT MORE. DEMAND GRODAN.

WWW.GRODAN101.COM



- STARTERS
- GRO-BLOCKS™
- GRO-SLABS™
- LOOSE MEDIA
- ACCESSORIES
- PARGRO®

gro|dan®

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 degrees F and then 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, they know they're getting a product that is:

- Light weight.
- Simple to use because of the growing instructions printed on the packaging.
- 100% sustainable and made from natural basalt rocks.
- Pathogen-free, disease-free, seed-free.
- 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.
- 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 usage fertilizer and water costs.
- Backed by unparalleled product support directly from the Grodan manufacturer.
- Certified earth friendly (European Ecolabel).

Leading the Way

Grodan has built a superb reputation over the last 40 years and plans to continue to grow and learn from retailers, consumers, and technological advancements as it progresses into the future of the industry. How can they achieve this?

- **RECEIVING 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 for more details about Grodan's environmental philosophy and factory awards received in several countries.
- **PROVIDING 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.
- **IMPROVING 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.



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.



Watch Gro-SMART with Grodan video series on...

WWW.GRODAN101.COM



- MAKING A 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:** Take a minute to visit www.grodan101.com to find downloadable brochures, charts, guides. And for those who learn best by watching, checkout the Gro-SMART videos showing how to use the product as recommended to achieve maximum results. On this Website, everything is just a click away. Explore the FAQ (Frequently Asked Questions) section, or email your specific technical question directly to info@grodan101.com. One of Grodan's experts will reply within 24 hours. After all, your success is essential to our success.



Maximize Growing Potential by Using Grodan in Hydro Systems

SYSTEM	RECOMENDATION	COMPARE TO	WHY USE GRODAN?
Starting Plants	A-OK, Macroplugs or Mini-Blocks	Compressed peat or 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 stay 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 less frequency of watering per day, reducing wear and tear on the pump. No rolling balls to chase. Buffer of moisture if electricity fails while you are away. Uniform water distribution in Grodan alleviates heavy water saturation at bottom like 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	Keep your water cleaner by using Grodan (no dust from the clay balls in the water). No balls rolling around when lifting to examine the plant's roots. A large set of roots grown in stonewool will quickly grow into a water culture.
Hand Watering containers (or Drip to Waste)	Absorbent granulate, Grow-Cubes, Grow-Chunks	Soil-less mixes Coco-mixes	Light weight and considerably cleaner to use, especially indoors. Absorbent is recommended for hand-watering outside because it holds the most moisture, allowing you to water with 1/2 the amount or less required for other media. With drip systems, you water with a less total amount throughout the day, which means less fertilizer waste (\$\$ saved). More roots in a smaller container means less space is needed to grow the same size plant.



Grodan New Gro-SMART Tray



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 larger Gro-Blocks™. The 1.5" size works perfectly in our 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) as 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 plant grows, either remove the wrapping and transplant into any loose media like Gro-Cubes -or- alternatively, leave the wrapping on and set it on top of a larger Gro-Slab.





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Gro-Blocks™

NAME	SIZE OF BLOCK	HOLE OR NO HOLE	BLOCKS/PACK	PACKS/CASE	BLOCKS/CASE
Small 3"	3" x 3" x 2.5"	Both available	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 sized 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.

Grodan recommends the use of CubeCaps® and/or DripCaps® to be used with the Grodan Gro-Blocks. Tests have proved them to be highly effective in minimizing algae growth and algae-related pest problems, and also slow the evaporation process (important to those in hot climates). With drip irrigation systems, DripCaps work well as they are designed to accommodate the tubing. Contact your Grodan supplier for pricing and availability. Visit www.cubecap.ca for additional information.

Gro-Slabs™

NAME	SIZE OF SLAB	SLABS / PACK
Expert 6" Slab	6" x 3" x 36"	12
Expert 8" Slab	8" x 3" x 36"	12
Expert Fat 6" Slab	6" x 4" x 36"	9
Classic 12" Slab	12" x 3" x 36"	8
Classic 6" Slab	6" 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 alternatively accommodate several fresh herbs or salad greens. Expert 6" and 8" slabs may also 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	0.9 Cu. Ft. (25.4 L)	2.28 lbs	6	Approx. 10
Grow-Cubes - Large bag	2.0 Cu. Ft. (56.5 L)	5.0 lbs	3	Approx. 22
Grow-Cubes - Loose in box	6.3 Cu. Ft. (180 L)	2.28 lbs	1	Approx. 69
Grow-Chunks™ - Large bag	2.0 Cu. Ft. (56.5 L)	5.0 lbs	3	Approx. 22

GROW-CUBE vs. GROW-CHUNK



Grow-Cubes are small loose 1/2" 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. The properties of Grow-Cubes are similar to a 50/50 mix of absorbent to repellent stonewool. Grow-Chunks are a larger version of Grow-Cubes, sized at 3/4" square. *A std. 1-gallon nursery pot only holds 88 fl. oz., not a whole gallon.

NAME	CUBIC FEET	WEIGHT
Water-Absorbent Granulate	3.5 Cu. Ft. (99L) compressed	45 lbs
Water-Repellent Granulate	3.5 Cu. Ft. (99L) compressed	45 lbs

Granulated Stonewool works great on its own or mixed with other loose media such as expanded clay pellets. If planting in containers outdoors we recommend the Water Absorbent granulate. You can mix repellent and absorbent to make a 50/50 mix; or you can purchase Gro-Cubes/Gro-Chunks as an alternative.

































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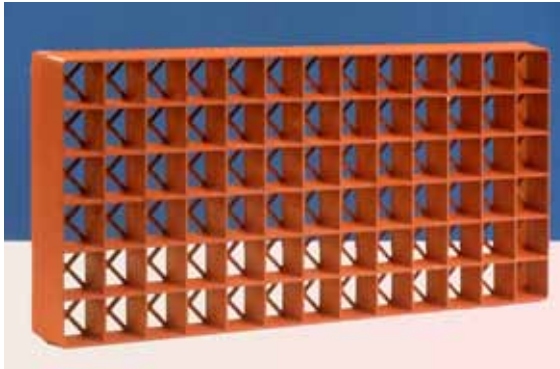
Grodan Barcode Quick Guide

A-OK 36/40 6/15 1.4" Square top, H=1.6"	1.5" A-Ok Starter Plugs 98 Cubes/Sheet	 5 702313 99906 8	
A-OK 50/40 6/15 2" Square top, H=1.6"	2" A-Ok Starter Plugs 50 Cubes/Sheet	 5 702313 99901 3	
Macroplugs™ 36/40 L=1.5" Round x H 1.57"	1.5" Macroplug 50 Plugs/Bag, 35 Bags/Case	 8 4711698 98319 4	
MM 40/40 6/15 L=1.6", H=1.6", W=1.6"	1.5" Starter Mini-Blocks 15/Strip, 3 Strips/Wrap	 5 702313 08001 6	
MM 50/40 6/15 L=2", H=1.6", W=2"	2" Starter Mini-Blocks 12/Strip, 2 Strips/Wrap	 5 702313 99906 8	
Delta 4 G 42/40 L=3", H=2.5", W=3"	Sm 3" Gro-Blocks with Hole 8/Strip	 5 702313 99908 2	
Delta 5.6 G 42/40 L=3", H=4", W=3"	Lg 3" Gro-Blocks with Hole 8/Strip	 5 702313 99909 9	
Delta 6.5 G 42/40 L=4", H=2.5", W=4"	Sm 4" Gro-Blocks with Hole 6/Strip	 5 702313 99910 5	
Delta 8 G L=4", H=3.1", W=4"	Med 4" Gro-Blocks 6/Strip	 5 702313 99913 6	
Delta 8 G 42/40 L=4", H=3.1", W=4"	Med 4" Gro-Blocks with Hole 6/Strip	 5 702313 99911 2	
Delta 10 G 42/40 L=4", H=4", W=4"	Lg 4" Gro-Blocks with Hole 6/Strip	 5 702313 99912 9	
Hugo™ L=6", H=6", W=6"	6" Gro-Blocks with Hole	 8 4711698 79294 9	
Big Mama™ L=8", H=8", W=8"	8" Gro-Block	 8 4711698 98315 6	
Grow-Chunks 2.0 Cu. Ft. (56.5 L)	Large bag 3 Bags / Case	 8 4711698 98321 7	
Grow-Cubes 2.0 Cu. Ft. (56.5 L)	Large bag 3 Bags / Case	 8 4711698 84161 6	
Expert 15/75 L=36", H=3", W=6"	6" Gro-Slabs	 5 702315 95005 0	
Expert 15/100 L=36", H=4", W=6"	6" FAT Gro-Slabs	 5 702315 95100 2	
Expert 20/75 L=36", H=3", W=8"	8" Gro-Slabs	 5 702315 95006 7	
Classic 30/75 L=36", H=3", W=12"	12" Gro-Slabs	 5 702315 20100 8	
Uni-Slab™ L=8", H=4", W=9.5"	Single Plant Slab	 8 4711698 99390 2	

Grodan

Accessories

Introducing the NEW Gro-SMART™ Tray



GRO-SMART TRAY INSERT:

Durable and versatile, the Gro-SMART tray is double-sided. Additional supports alleviate sagging and raise the stonewool above the waterline for optimum growth. The 78-cell side is perfect for individual Grodan Macroplugs and 1.5" A-OKs, and the mesh side holds Grodan Mini-Blocks or Gro-Blocks. It's heavy-duty for long-term use (not like the other flimsy trays) – and fits inside 10" x 20" black flat. It's easy to sanitize because it's dishwasher safe.

ROSE BUCKET:

Heavy duty Dutch container. Use with Hugo, Grow-Cubes, granulate 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" (18cm) square; H 9.75" (25cm)

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" (25cm) square; H 11.4" (29cm)

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"x12"x12" (30cm x 30cm x30cm)

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: 3.5 gal (13 L)

Dimensions: Surface 12"x10" (30 x 25cm), H 9" (22.75cm), Bottom 8" square (20.25cm)

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

DUTCH LEACH TRAYS:

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" (15cm x 100cm x 10cm)

BLACK ANGLED 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 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













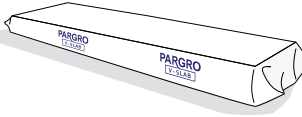

All Pargro QD slabs have vertical fibers, similar to the Grodan Expert Gro-Slabs.

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. Specifically, this means that 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	1372 per case 14 sheets of 98		
Pargro QD 1.5" Cube 3 strips of 15 cubes	1170 per case 26 packs of 45		
Pargro QD 3" Block 3" x 3" x 2.5"	192 blocks per case 24 Strips of 8		
Pargro QD Block (NO HOLE) 3" x 3" x 2.5"	192 blocks per case 24 strips of 8		
Pargro QD Block 4" x 4" x 2.5"	216 blocks per case 36 strips of 6		
Pargro QD Block 4" x 4" x 4"	72 blocks per case 12 strips of 6		
Pargro QD JUMBO Block 6" x 6" x 4"	36 blocks per case Each		
Pargro QD BIGGIE Block 6" x 6" x 6"	24 blocks per case Each		
Pargro QD 6 x 36" Slab 36" x 6" x 3"	12 slabs per case Each		
Pargro V-Slab 36" x 6" x 3"	12 slabs per case Each		
Pargro V-Slab 40" x 6" x 3"	12 slabs per case Each		



Grodan®

Grodan Suppliers

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

United States

BWGS	www.bwgs.com sales@BWGS.com	(USA) 800-316-1306
ECO ENTERPRISES	www.ecogrow.com ecoenter@aol.com	(USA) 800-426-6937
HYDROFARM	www.hydrofarm.com wholesale@hydrofarm.com	(USA) 800-634-9990
NGW	www.n-g-w.com hydroinfo@nationalgardenwholesale.com	(USA) 888-570-4678

Canada

BIOFLORAL	www.biofloral.com info@biofloral.com	(USA) 877-384-9376 (CAN) 450-664-4844
EDDI'S WHOLESALE GARDEN	www.eddiswholesale.com eddis@eddiswholesale.com	(USA) 800-663-2934 (CAN) 604-607-4447
GREENSTAR	www.getgreenstar.com info@getgreenstar.com	(USA) 888-747-4769 (CAN) 604-882-7699
CANADIAN HYDROGARDENS	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 too, visit www.hydroforhunger.com.

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