



SOLID.PH



SOLIDPILE™
STEEL SHEET PILE



SOLIDGABION®
The Smart Solution To Soil Erosion



SOLIDBARS™
REINFORCING STEEL BAR



SolidKon®
FOLDING CONTAINERS



SolidKon™
PORTALET



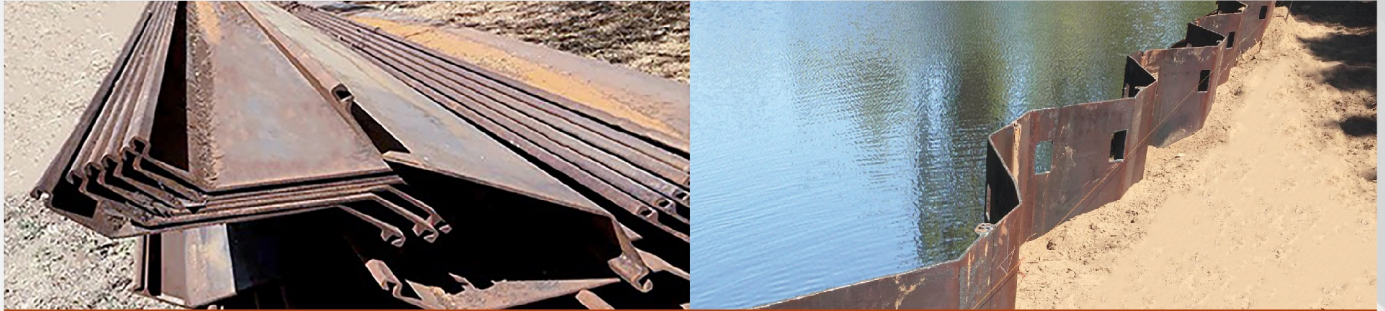
SOLID™
GREEN
ENERGY
SUSTAINABLE ENERGY FOR ALL



SOLIDPILE™

STEEL SHEET PILE

Z-TYPE



HOT ROLLED

Z-PILE	SP-HRZ12-1 Hot Rolled	SP-HRZ13-1 Hot Rolled
Width (mm)	770	770
Height (mm)	343.5	344
Thickness Flange/Web (mm)	8.6/8.5	9.1/9
Section Area (cm ²)	120.8	126.5
Weight (kg/m)	72.8	76.2
Weight (kg/m ²)	94.5	99
Moment of Inertia cm ⁴ /m	21,496	2,433
Elastic Section Modulus cm ³ /m	1,252	1,304

U-TYPE



U-TYPE	TYPE II	TYPE III	TYPE IV
Width (mm)	400	400	400
Height (mm)	100	125	170
Thickness Flange/Web (mm)	10.5	13	15.5
Section Area (cm ²)	61.18	76.42	96.99
Weight (kg/m)	48	60	76.1
Weight (kg/m ²)	120	150	190
Moment of Inertia cm ⁴ /m	8,740	16,800	3,860
Elastic Section Modulus cm ³ /m	874	1,340	2,270



SOLIDGABION[®]

The Smart Solution To Soil Erosion

SG 211
2 x 1 x 1m



SG 411
4 x 1 x 1m

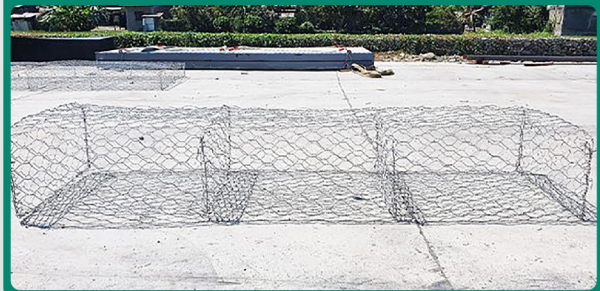


Standard	Non-DPWH Standard		DPWH Standard (Blue Book)	
Body Wire	2.7mm ø	2.7mm ø	3.05mm ø	2.7mm ø + 1mm PVC
Selvedge Wire	3.4mm ø	3.4mm ø	3.80mm ø	3.4mm ø +1mm PVC
Tie Wire	2.2mm ø	2.2mm ø	2.2mm ø	2.2mm ø + 1mm PVC
Mesh Opening	100 x 120mm	80 x 100mm		
Zinc Coating	ASTM A 641, Weight of required zinc coating conforms with DPWH Blue Book			
Tensile Strength	ASTM A 370, Minimum of 350 MPa as per DPWH Blue Book			

SG 311
3 x 1 x 1m



SG 315
3 x 1 x 0.5m



Standard	DPWH Standard (Blue Book)
Body Wire	3.05mm ϕ
Selvedge Wire	3.80mm ϕ
Tie Wire	2.2mm ϕ
Mesh Opening	80 x 100mm
Zinc Coating	ASTM A 641, Weight of required zinc coating conforms with DPWH Blue Book
Tensile Strength	ASTM A 370, Minimum of 350 MPa as per DPWH Blue Book



SOLIDGABION[®]

The Smart Solution To Soil Erosion

SG 623
6 x 2 x 0.3m



Standard	DPWH Standard (Blue Book)	
Body Wire	2.2mm ϕ	2.2mm ϕ + 1mm PVC
Selvedge Wire	2.7mm ϕ	2.7mm ϕ + 1mm PVC
Tie Wire	2.2mm ϕ	2.2mm ϕ + 1mm PVC
Mesh Opening	60 x 80 mm	
Zinc Coating	ASTM A 641, Weight of required zinc coating conforms with DPWH Blue Book	
Tensile Strength	ASTM A 370, Minimum of 350 MPa as per DPWH Blue Book	

High Zinc Coating For Gabion Projects



2.2mm zinc coating
2.2mm + 1mm pvc coated
50kgs/roll



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PRODUCT DATA SHEET

GEOTEXTILE (FILTER CLOTH)

ITEM	UNIT	INDEX		
WEIGHT PER SQUARE METER	g/m ²	150 g/m ²	250 g/m ²	400 g/m ²
THICKNESS	mm	1.2	1.9	2.8
BREAKING STRENGTH	KN/m	7.5	12.5	20.5
ELONGATION AT BREAK	%	40~80	40~80	40~80
CBR MULLEN BURST STRENGTH	KN	1.4	2.2	3.5
TEAR STRENGTH	KN	0.21	0.35	0.56
SIEVE SIZE O ₉₀	mm	0.07~0.2	0.07~0.2	0.07~0.2



The information contained in this document is a general guide to the use of such products, and is to the best of our knowledge, true and accurate. The values are based on testing conducted by the Quality Assurance and Quality control unit from our factory. Solid Gabion reserves the right to make modifications to its products without notice.



SOLIDBARS™
REINFORCING STEEL BAR

REINFORCING STEEL BARS



COMMERCIAL SIZES

PNS 49 Bar Grade	ASTM Equivalent Grade	Diameter (mm)									Length (m)						
		10	12	16	20	25	28	32	36		6.0	7.5	9.0	10.5	12.0	13.5	15.0
Grade 230	Grade 33	✓	✓	✓							✓	✓	✓	✓	✓	✓	
Grade 275	Grade 40	✓	✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	
Grade 415	Grade 60	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	

TECHNICAL SPECIFICATIONS

PNS 49 Bar Grade	ASTM Equivalent Grade	Type Code	Common Nomenclature	Color Code	Mechanical Properties (min)		
					Yield Strength	Tensile Strength	TS/YS Ratio
Grade 230	Grade 33	NC	"Regular"	White	230MPa	390MPa	-
Grade 275	Grade 40	NC	"Regular"	Yellow	275MPa	480MPa	< 1.25
		WC	"Weldable"	Yellow & Red	275MPa		≥ 1.25
Grade 415	Grade 60	NC	"Regular"	Green	415MPa	620MPa	< 1.25
		WC	"Weldable"	Green & Red	415MPa	550MPa	≥ 1.25

USAGES

- Storage
- Field Office
- Farm House
- Medical Clinic
- Portable Houses
- Transient Housing
- Temporary Emergency Shelter
- Police/ Military/ Barangay Outpost



ADVANTAGES OF USING SOLIDKON

Saves Transportation Cost

- Weight: Approximately 1,200kg

Saves Installation Cost

- Unfold 1 set in 5 minutes

Saves Storage Cost

- Exterior Dimension (Unfolded): 5.80m x 2.44m x 2.62m
- Interior Dimension (Unfolded): 5.62m x 2.26m x 2.44m
- Folded: 0.51 m (Height)

UNFOLDS IN 5 MINUTES



1. LIFT TO UNFOLD



2. SEMI-UNFOLD



3. FLIP DOOR/WINDOW PANEL



4. UNFOLDED/ ERECTED

SOLIDKON PORTALET FEATURES

DIMENSION	G.W. (KG)	N.W. (KG)	LOADING	
			20GP	40HQ
1.1m x 1.1m x 2.3m	98	95	25	55

ADVANTAGES

- Cost efficient
- Long term use
- Easy to assemble
- Saves transportation cost
- All accessories are included

STRUCTURE

- Modularized
- Aluminum main structure



EXHAUST FAN &
ELECTRIC SYSTEM



VENT HOLE



ANTI-SKID ALUMINUM
PLATE FLOOR



DOOR KNOB



CERAMIC
WASH BASIN



TOILET SEAT

ELECTRICAL CHARACTERISTICS	SLB144M8-450	SLB144M9-540
MAXIMUM POWER(W)	450	540
TOLERANCE WATTAGE(W)	0~+5	
OPTIMUM POWER VOLTAGE(VMP)	41.32	41.70
OPTIMUM OPERATING CURRENT(IMP)	10.89	12.95
OPEN CIRCUIT VOLTAGE(VOC)	49.06	49.95
SHORT CIRCUIT CURRENT(ISC)	11.38	13.78
MODULE EFFICIENCY (%)	20.70	20.90
TEMPERATURE CHARACTERISTICS		
NOCT	45°C+/-2°C	
TEMPERATURE COEFFICIENTS OF ISC(%)°C	0.046	
TEMPERATURE COEFFICIENTS OF VOC(%)°C	-0.276	-0.266
TEMPERATURE COEFFICIENTS OF PM(%)°C	-0.381	-0.354
MECHANICAL CHARACTERISTICS		
NUMBER OF CELL(PCS)	144(6X24) pcs	
SIZE OF MODULE(MM)	2094*1038*35mm	2279*1134*35mm
FRONT GLASS THICKNESS(MM)	anti-reflective 3.2mm	
SURFACE MAXIMUM LOAD CAPACITY	5400PA	
ALLOWABLE HAIL LOAD	23m/s 25mm	
WEIGHT PER PIECE(KG)	24kg	28.5kg
JUNCTION BOX TYPE	Protection class IP68,3 diodes	
CABLE	350mm/4mm ²	300mm/4mm ²
CONNECTOR TYPE	MC4 Compatible	
FRAME(MATERIAL CORNERS,ETC.)	35#	
TEMPERATURE RANGE	-40°C TO +85°C	
FF (%)	70-79%	
MAXIMUM SYSTEM VOLTAGE	1000/1500V DC	



INVERTERS



SOFAR 3000TL-G3



SOFAR 5KTLM-G2

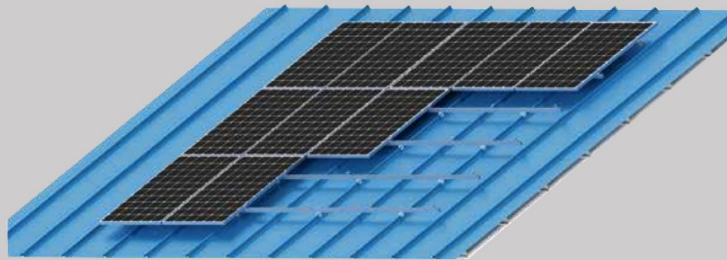


SOFAR HYD 3000-ES



SOFAR HYD 5000-ES

ROOF MOUNTING



COMPONENTS



RAIL



SPLICE KIT FOR RAIL



MIDDLE CLAMP KIT



L-FOOT KIT



END CLAMP KIT

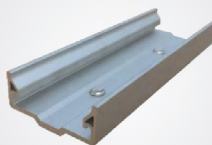
GROUND MOUNTING



COMPONENTS



BASE RAIL CAP



BASE RAIL SPLICE



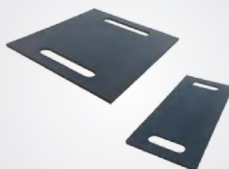
BASE RAIL



CROSS BEAM



END CLAMP



EPDM RUBBER



FRONT PILLAR



MIDDLE CLAMP



REAR PILLAR

SOLAR LED FLOOD LIGHTS



25W Flood Light
w/ 6W Panel
(White | Warm White)



40W Flood Light
w/ 10W Panel
(White | Warm White)



60W Flood Light
w/ 15W Panel
(White | Warm White)



100W Flood Light
w/ 20W Panel
(White | Warm White)



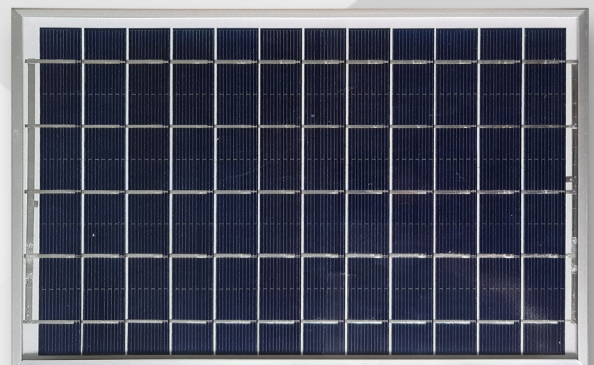
200W Flood Light
w/ 25W Panel
(White | Warm White)



300W Flood Light
w/ 40W Panel
(White | Warm White)

ITEM	FLOOD LIGHT (WATT)	PANEL (WATT)
1	25	6
2	40	10
3	60	15
4	100	20
5	200	25
6	300	40

SOLAR PANEL





BRANCHES



ISABELA BRANCH



PANGASINAN BRANCH



CEBU BRANCH



DAVAO BRANCH



CORPORATE HEADQUARTERS

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