

# PERMABASE® SCREWS TECHNICAL DATA SHEET

## MANUFACTURER

Distributed by:

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PermaBase® is a registered trademark of National Gypsum Company.

## DESCRIPTION

PermaBase Screws are corrosion resistant screws specifically designed to be used with PermaBase Cement Boards

### BASIC USES

Attach PermaBase Cement Board to wood or steel studs, plywood subfloors, ceilings and countertops

### ADVANTAGES

- Self-drilling and self-tapping.
- Interior or exterior uses.
- Large diameter, low profile wafer-type head.
- No ribs under head, preventing reinforcing mesh damage.

## INSTALLATION

Do not countersink the screw head too much into the board's surface, this may cause the board's mesh reinforcements to be damaged

Do not use metal screws to attach cement Board to wood.

Wood screws can be used to attach Cement Board to Wood or Light Gauge Steel of 26 to 20 Gauge.

Metal screws are designed to attach Cement Board to Steel Studs of 20 to 12 Gauge

## TECHNICAL DATA

### KESTERNICH TEST

The screws are exposed to a highly corrosive environment, simulating many years of severe exposure that the screws may encounter in an industrial application. Sulfur Dioxide is mixed to water, thus forming an environment filled with Sulfuric acid. Repeated condensation and drying cycles consist of 8 hours exposure to sulfur dioxide atmosphere and drying to 70% R.H. After exposure to those harsh conditions, the number of 24 hours cycles it takes for normal corrosion to appear is recorded.

### SALT SPRAY RESISTANCE

The screws are exposed to a controlled environment where there is an atmospheric mixture of water and sodium Chloride maintained at 100% humidity. The time in hours it takes for normal corrosion to appear is then noted. The tests are done in accordance with ASTM B117.

## AVAILABLE SIZES

### WOOD SCREWS

#8-16, 1-1/4" and 2" long, Hi-Lo threads

### METAL SCREWS

#8-18, 1-1/4" and 1-5/8" long, for use in 20 gauge steel and thicker.

## WARRANTY

Please contact us to get the information on warranty

PROPERTY	STANDARD	RESULT
Coating type	N/A	Zinc plated with chemical coating
Recess	N/A	Phillips #2
Thread / point(wood)	N/A	#8-16 / Hi-Lo
Thread / point(metal)	N/A	# 8-18 / Type S-12
Head Diameter	N/A	0.45" (11,4mm)
Salt Spray Resistance	ASTM B117 (0% rust)	1000 hrs
Kesternich test	DIN 50018, 2L (0% rust)	15 cycles
Heat resistance	JIS K54007.1	250 °C, 7 hrs
Acid resistance, 5% HCl	N/A	No change in 24 hr
Alkali resistance, 3%	N/A	72 hrs
Weathering test	JIS K54007.6.17	No change in 500 hrs
Galvanic corrosion	N/A	Low

Job Name: \_\_\_\_\_

Contractor: \_\_\_\_\_

Date: \_\_\_\_\_

Submittal Approvals: (Stamp or signature)

**Perma**  
**BASE**  
BRAND  
**Cement Board**  
By National Gypsum

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