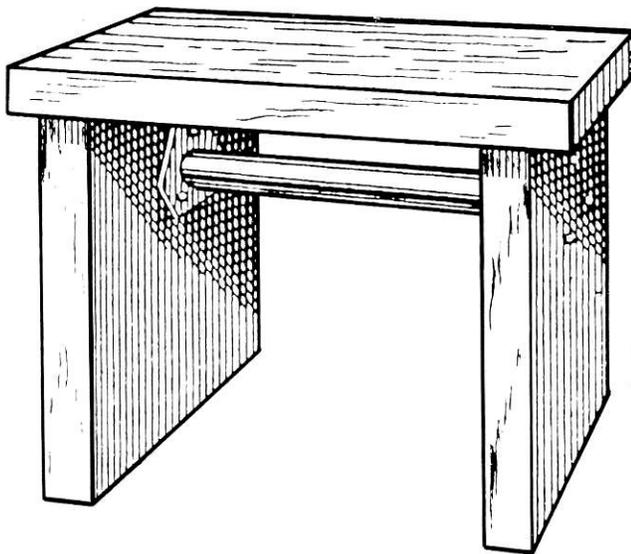


*To reduce balance vibrations, use a*

# Cast Marble Balance Table

From

[www.balancetable.biz](http://www.balancetable.biz)



**MODEL  
#D101**

**DIMENSIONS:**  
35"W x 24"D x 31"H

**WEIGHT:**  
Approximately 450 lbs.

**BUY THE BEST AVAILABLE  
AT THE LOWEST PRICE**

Marble Balance Tables are made using patented technology to provide the following advantages over natural marble and concrete tables.

- Superior vibration control guaranteeing accuracy with micro, ultra-micro and other sensitive laboratory equipment.
- Extremely resistant to harsh chemicals and staining dyes.
- Perfectly smooth large surface with greater uniformity than natural marble.
- Strong, durable and attractive with superior impact and thermal shock
- Color: neutral, white on white — a pleasing addition to any laboratory.

# Properties and Performance Standards for Marble Balance Tables

## Objectives:

These tests were established to provide acceptable quality standards for Marble Balance Tables, as a guide for organic, inorganic and analytical chemists, technicians, and other users, to promote understanding regarding its unique chemical, stain resistance and vibration dampening properties.

## Product Description:

Marble Balance Tables are manufactured using high quality materials and workmanship. In the manufacturing process, pulverized marble, binders, colors and specially formulated polyester resins are mixed and cast into molds. The molded marble is then cured to specified hardness. The resulting table is a unique blend of beauty, utility and dependability.

Molded marble prepared by the patented technology is more durable than natural quarried marble. It supports much greater weights and contains none of the voids and surface porosity that are characteristic of natural marble. It survives, without damage, impacts that could shatter or crack natural marble, and is more resistant to stains, wear and damaging effects of harsh chemicals.

The Marble Balance Table is easy to care for. Its glossy surface wipes clean with water and mild soap or detergent. Harsh chemicals and abrasives are unnecessary. With just a little attention, it will remain bright and new looking for many years.

## General Specifications and Properties:

### 1. Appearance:

The number and size of molding voids and other defects or blemishes shall not exceed the established limits for cast marble.

Requirements: There shall be no visible voids larger than 1/16(1.59mm) in diameter below the original finished surface. The maximum allowable number of voids smaller than 1/16" (1.59mm) in a 3" (76.2mm) diameter area is 4.

### 2. Colorfastness:

Test Method: Four specimens (one to be used as a control specimen) shall be used for this test. Specimens shall be tested for 200

hours in accordance with ASTM D-2565-1970, procedure A. Black panel temperature shall be maintained at 145±9°F (63± 5°C). Humidity need not be controlled.

Performance Requirements: Tested specimens shall show no significant change in color or surface texture when compared with the control specimen.

### 3. Stain & Chemical Resistance:

Test Method: Apply approximately two drops of each of the liquid reagents listed in Table I & II. Conduct one test with each reagent covered with a small watch glass to prevent evaporation and to ensure contact with the test specimen(s) to remain for the prescribed duration at a temperature of 73.4± 3.6°F (23± 2°C) and a relative humidity of 50% ± 5%/s. At the end of the appropriate interval, remove the excess reagent with a paper towel.

The stain specimen(s) shall be subjected to cleansing tests immediately after the time period given in Table I & II and rated at that time. A sample will be visually inspected. Each stain, both covered and uncovered, shall be given a number in accordance with the rating procedure described for each table. Table I and Table II compare the stain and chemical resistant properties of Delite Marble balance tables with natural marble balance tables.

**Table I  
Dye Solutions, Standing Times and  
Results for Stain Resistance Test**

Reagents (5% Soln. or as Specified)	Standing Time (Hrs)	Stain Resistance	
		Natural Stone	Delite Marble
Dye D&C yellow #10	24	1.0	0.0
Dye FD&C yellow #5	24	2.0	0.0
Dye FD&C yellow #6	24	3.0	0.0
Dye FD&C blue #2	24	3.0	0.0
Dye FD&C carmine #40	24	3.0	0.0
Dye FD&C green #3	24	3.0	0.0
Dye FD&C blue #1 Lake	24	3.0	0.0
Dye Kohnstamm brown A-8534	24	1.0	0.0
Dye gentian violet 1% Solution	24	3.0	1.0

Key: No stain—0.0, Slight stain—1.0, Definite stain—2.0, Severe stain—3.0.

**Table II**  
**Solvents, Chemicals, Standing Time**  
**and Results for Resistance Test**

Chemicals	Standing Time (Hrs)	Chemical or Solvent Reaction	
		Natural Stone	Delite Marble
Acetone	24	0.0	1.0
10% Ammonia	24	0.0	0.0
Amyl Acetate	24	0.0	1.0
Benzene	24	0.0	0.0
10% Citric Acid	24	2.0	0.0
Ethyl Acetate	24	0.0	1.0
Ethyl Alcohol	24	0.0	0.0
10% Ferric Chloride	24	1.0	0.0
Gasoline	24	0.0	0.0
1N Hydrochloric Acid	24	2.0	0.0
3% Hydrogen Peroxide	24	0.0	0.0
Lacquer Thinner	24	0.0	0.0
1% Lye Solution	24	0.0	0.0
10% Nitric Acid	24	1.0	0.0
Phenol Solution	24	1.0	0.0
10% Potassium Dichromate	24	3.0	0.0
.5N Potassium Hydroxide	24	0.0	0.0
10% Potassium Permanganate	24	3.0	1.0
1N Sodium Hydroxide	24	0.0	0.0
1N Sulphuric Acid	24	2.0	0.0

Key: No reaction—0.0, Slight reaction—1.0, Definite reaction—2.0, Severe stain and chemical reaction—3.0. Note: — Slight reactions can generally be cleaned by buffing compound.

**4. Vibration Control:**

Marble Balance Tables will give exceptional performance at a budget price. These tables provide maximum stability and eliminate vibrations during weighing. In addition to great inertia associated with the heavy table, the unique processing of the marble and polymers reduce vibrations transmitted from the floor and surroundings.

Test Method: The vibrations transmitted to

the tables shall be measured using an oscilloscope with memory trace feature.

The balance table is connected to the oscilloscope and the sensitivity is set to approximately 20 mv per half inch.

Single sweeps are taken in memory trace mode at 10 milliseconds per half inch and 100 milliseconds per half inch. Both the sweeps are traced on a single picture by switching from one channel to another.

Our studies show a significant drop-off in the vibration effects. The damping effect was approximately 25 to 30% better than the natural stone.

Since the vibrations depend on location and the frequency of any other operating equipment in the proximity of the balance tables. We suggest that you do your own evaluation at several locations within your laboratory to determine the best spot for your balance and our marble balance table.

**5. Cigarette Test:**

Test Method: The cigarette burn resistance of units shall be measured using specimens approximately 6" x 6" (15.24 cm).

Select 3 popular brands of cigarettes. Light one cigarette each from freshly opened packages of the three brands. Place the cigarettes on the specimen(s) with the *lighted end approximately one inch in from the edge*. Allow the cigarette to burn for 2 minutes ± 2 seconds. Remove the cigarettes and allow the burned areas to cool.

Wipe the burn areas with clean cheesecloth. If a visible stain remains, sand the stained area with *400 grit wet or dry sandpaper and water* until the stain is removed.

Performance Requirement: There shall be no ignition or progressive glow of the surface during or after contact with the lighted cigarettes. Any resulting damage shall not impair the serviceability of the unit, and shall be repairable to approximate the original finish.

**6. Hydro-Thermal Shock Resistance Test:**

Test Method: Impinge on surface, hot water at 150 ± 3°F (65.5 ± 1.6°C) for 1.5 minutes. Allow water to drain for 30 seconds.

Follow immediately at the same point with cold water at 50 ± 3°F (10 ± 1.6°C) for 1.5 minutes. Allow water to drain for 30 seconds. This shall constitute one complete cycle.

Continue test for a total of 500 cycles. Flow rates should be  $1 \pm 0.2$  gpm ( $0.063 \pm 0.013$  l/sec).

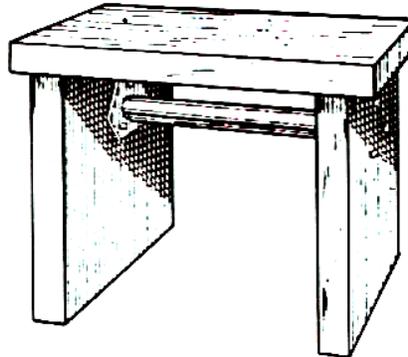
Performance Requirement: The complete molded marble shall show no evidence of cracking or crazing after the water cycling test.

#### 7. Impact & Scratch Resistance

When compared to natural marble or concrete, in several tests the impact resistance is superior; however, care should be exercised to set equipment in place on the Marble Balance Table and not slide or pull into place as a sharp edge on legs, etc., could result in a scratch on surface of the table.

#### 8. Standard Sizes.

**TABLE  
AVAILABLE  
IN TWO  
SIZES**



<b>TABLE D#101</b>	<b>TABLE D#102</b>
<b>Dimensions:</b> 35"W x 24"D x 31"H. <b>Weight:</b> Approx. 450 lbs., net. Table is made of 3" thick solid molded marble, smooth finish, superior chemical and stain resistance. Color white on white.	<b>Dimensions:</b> 35"W x 24"D x 36"H. <b>Weight:</b> Approx. 510 lbs., net. Table is made of 3" thick solid molded marble, smooth finish, superior chemical and stain resistance. Color white on white.

### Terms and conditions of sale

How to Order:

Please mail or phone all orders to:

Balance Table Co.

1140 S. 7<sup>th</sup> St.

DeKalb, IL 60115

815-739-1404

Fax: 815-748-0510

Or email to [Sales@balancetable.biz](mailto:Sales@balancetable.biz)

Phone orders must be confirmed by mail. To avoid duplicate shipments, please mark these orders as "confirming".

Prices:

Prices are stated in U.S. dollars and are FOB Factory, DeKalb, Illinois and include packing. All applicable taxes are to be paid by the purchaser.

#### Shipments and Deliveries:

Unless otherwise specified, all orders will be shipped via the safest and most economical methods. All shipments will be insured for safe delivery.

All stock items are shipped within two weeks of receipt. For custom items, allow 2 to 3 weeks.

Terms:

Net 30 days to accounts with approved credit.

**Guarantee:**

Marble Balance Tables are manufactured using high quality materials and workmanship. All items are guaranteed against manufacturing defects such as chip, fade or crack under normal use for one year from date of invoice. This guarantee extends to original purchaser and is limited to repair or replacement (at seller's option). This guarantee is in lieu of all other guarantees, expressed or implied.

**Liabilities:**

The Balance Table Co., shall not be liable for contract failure or delay due to causes beyond its control, such as acts of God, and interruption of services or supplies at reasonable prices. Furthermore, seller shall not be held liable for consequential damages of any kind resulting from misuse of merchandise by purchaser, his employees or others.

**Claims against Breakage and/or Shortages:**

Each item is thoroughly inspected, and carefully packed before shipping, If damage results, inform the freight or express company immediately. Retain shipping cartons and packing materials until claims are settled. Items will be replaced promptly without charge on receiving proper notification and inspection report.

**Returned Goods for Credit**

Please call or write our customer service department for return authorization number. Then return the merchandise in its original condition, prepaid for credit. The Balance Table Co. reserves the right to charge a small handling fee on all merchandise returned later than 90 days from date of invoice.