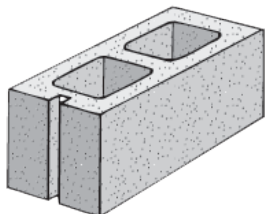


CALSTONE

CONCRETE MASONRY UNITS

PRECISION TECHNICAL PRODUCT DATA SHEET 04 220-1



PRODUCT

Concrete Masonry Units

MANUFACTURER

CALSTONE

5787 Obata Way

Gilroy, CA 95020

408-984-8800

CALSTONE.COM

PART 1 - GENERAL

1.1 SUBMITTAL

Submit color samples for selection from manufacturer's offering. Submit product data sheet, certification, and sample(s) of each color specified.

1.2 QUALITY ASSURANCE CERTIFICATIONS

All concrete blocks shall conform to the currently active version of ASTM C90.

Units may contain pre-consumer recycled content. Contact your Calstone Architectural representative for details.

Calstone products offer high thermal mass properties, regional materials, low life-cycle costs, mold resistance and will last the life of the building. Calstone products contain no VOC's and are available in a wide range of colors. In addition, custom colors can be provided. Split Face units are ideal for exterior applications. The structural integrity of these units results in a one-step, single-trade installation process.

1.3 FIRE RESISTANCE

Define hourly ratings required by NCMA TEK notes, available at www.ncma.org

1.4 FIELD CONSTRUCTED MOCK-UPS

It is recommended to construct a sample panel, no less than 4' x 4', of each color and size units to be used in the project. Calstone recommends a sample panel be installed at the jobsite prior to installation of any Calstone product. This panel will represent both the quality and the color range of the product and the workmanship to be expected for the project. Either the owner or the architect for the project must approve the panel.

1.5 DELIVERY, STORAGE AND HANDLING

Calstone CMU shall be delivered to the jobsite. Store pallets in single stacks on level ground and cover with waterproof covering (e.g., tarpaulins) to protect the blocks from weather, debris, filth, and other jobsite circumstances. Handle blocks carefully to avoid breakage and damage to the finished surfaces.

1.6 PROJECT/SITE

PROTECTION OF WORK

Cover walls each day after installation to keep open walls protected and dry. After units are installed they should be protected from damage by other trades performing operations that can stain or otherwise damage the finished surfaces by covering walls with plastic. Corners should be protected from damage after installation.

PART 2 - PRODUCTS

2.1 PRODUCT NAME

Precision Concrete Masonry Units

Photo: 8x8x16 STD

2.2 CMU SIZES AND SHAPES AVAILABLE

(Width x Height x Length)

Nominal 2", 4", 6", 8", 10", 12", and 16" widths

Nominal 4" and 8" heights

Nominal 8" and 16" lengths

Calstone masonry unit mix designs are available in several strengths and weights. Typical strengths are 2,000 p.s.i., 2,800 p.s.i. and 3,750 p.s.i.. Typical weights are light weight (105 lb/cu ft³ or less), medium weight (105-125 lbs/cu ft³) and normal weight (over 125 lbs/cu ft³). Colors may vary depending on the mix design needed to meet the requirements of the project specifications. Please contact Calstone for more information.

PART 3 - EXECUTION

3.1 LAYING MASONRY WALLS

Draw blocks from more than one pallet at a time during installation. Refer to NCMA Tek notes available at www.calstone.com, for Hot and Cold weather construction practices.

Install only quality units; reject all defective units as defined by ASTM C90. Lay blocks with the face level, plumb and true to the line strung horizontally at the finished face. Units shall have uniform, 3/8"-wide joints both horizontally and vertically on the finished side of the wall. Tool joints neatly after they are thumb print hard. Make them straight and uniform. Size and place cut pieces appropriately to maintain consistency and bond. Complete masonry construction using procedures and workmanship consistent with the best masonry practices.

3.2 CUTTING

Mask all cuts, including those for bonding, holes, and boxes, etc. With a motor-driven masonry saw, using either an abrasive or diamond blade, cut neatly and locate for best appearance.

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PART 3 - EXECUTION (CONTINUED)

3.3 MORTAR BEDDING AND JOINTING

1. Lay units with full mortar coverage on head and bed joints taking care not to block cores to be grouted or filled with masonry insulation.
2. Tool all mortar joints when thumbprint hard into a concave configuration.
3. Care should be taken to remove mortar from the face of masonry units before it sets.
4. Tuckpoint the joints for proper appearance.
5. Fill all Bee Holes

3.4 INSPECTION

The textured faces shall conform to the requirements of ASTM C90 when viewed from a distance of twenty feet to the wall with normal lighting.

3.5 CLEANING

Keep the walls clean daily during installation using brushes. Do not allow excess mortar lumps or smears to harden on the finished surfaces. Harsh cleaning methods after walls have been erected may mar the surface of the blocks. A light sandblasting usually works. Do Not Use Acid.

3.6 MAINTENANCE

Calstone concrete masonry units properly installed and cleaned, need virtually no maintenance other than routine cleaning. For tough stains, contract Calstone for specific cleaning recommendations.

3.7 LIMITATIONS

The facing is not intended for use as an impervious surface. Integral water repellents and or Concrete Masonry Sealers are strongly recommended with Calstone Concrete Masonry Units.

LIMITED PRODUCT WARRANTY

It is the customer's responsibility to inspect all units delivered before installation. Any question regarding quality, sizing, color uniformity within a shipment, or matching to prior shipments must be inspected by a CALSTONE representative before installation. CALSTONE will not recognize any claims made for units that have been installed without prior inspection and acknowledgment.

Variations in color and shade range are inherent in concrete products due to the variation in the composition of aggregates, cement, oxide, and other variables resulting through the manufacturing process. Efflorescence is a natural by-product from the cement hydration process and can be found in any concrete product and appears as a whitish residue.

Due to the mechanical distribution of aggregates and the age of the units at the time of splitting, the degree of feature aggregate in the split face units may vary. No claims will be allowed for any such variations. Submitted samples are to establish color range, size, and texture. Subsequent shipments may vary from such samples. The manufacturer warrants that this product shall be of merchantable quality when used or applied in accordance with the manufacturer's instructions. This product is not warranted as suitable for any purpose other than the general purpose for which it is intended.

This warranty runs for one year from the date the product was purchased. Any implied warranty of merchantability or fitness for a particular purpose on this product is limited to the duration of this warranty. Liability under this warranty is limited to replacement of defective product or, at the manufacturer's option, refund of the purchase price. Consequential and incidental damages are not recoverable under this warranty.