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(NCMA) unites,  
supports, and  
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concrete masonry systems - including concrete masonry, manufactured stone veneer, segmental retaining walls, and other hardscape systems. From small family-owned businesses

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to large  
corporations,  
our membership  
reflects the  
full ...

## **Home - NCMA**

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Design Manual by  
Stuart R.  
Beavers,  
editorial  
committee  
chairman and a



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Lintel Design  
Manual v t =  
thickness, in. V  
c = nominal

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shear strength  
provided by  
concrete, lb.  $V$   
 $m$  = shear  
strength  
provided by  
masonry masonry,  
lb.  $V_n$  =  
nominal shear  
strength of a  
cross-section  
before  
application of  
strength

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reduction

factor, lb.  $V_r$

= resisting

shear of lintel,

lb.  $V_s$  = shear

strength

provided by

shear

reinforcement,

lb.  $w$  = load per

unit length,

lb/ft.

**Design and**

*Page 11/43*

Acces PDF  
Concrete Masonry  
Unit Design  
**Analysis of  
Concrete Masonry  
and Precast ...**

Dimensions of  
concrete masonry  
units do not  
appear in SANS  
1215, amendment  
No. 2 but in  
Appendix F  
Recommended  
nominal  
dimensions of  
concrete masonry

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Manual  
units (see Table 1.1). The use of modular size masonry units is essential if buildings are designed to the 100mm standard module - as stated in SANS 993 Modular co-ordination in building.

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**CONCRETE MASONRY  
MANUAL –**

**saplans.co.za**

MISCELLANEOUS  
CONCRETE MASONRY  
UNITS 14 Single  
Score 8 x 8 x 16  
Custom Scored  
Masonry Units  
Also available  
in 4", 6", 10"  
and 12" custom  
integral colored  
units or in

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regular grey units to be coated or stained after installation. Scored masonry units are available in all shapes and sizes desired. Multiple scores can be added if needed.

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Unit Design  
Manual

## **CONCRETE MASONRY UNITS**

NCMA is an association of producers of concrete masonry products, and suppliers of products and services related to the industry. NCMA offers a variety of technical



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services and  
design aids  
through  
publications,  
computer  
programs, slide  
presentations  
and technical  
training.

**NCMA TEK MANUAL**  
**Masonry Design**  
**and Construction**  
Building

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Concrete Masonry  
Homes: Design  
and Construction  
Issues Prepared  
for The U.S.  
Department of  
Housing and  
Urban  
Development  
Office of Policy  
Development and  
Research  
Washington, DC,  
and ... Concrete

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masonry units  
(CMU) have a  
significant  
percentage of  
the United  
States market  
for

## **Building Concrete Masonry Homes: Design and Construction**

...

NCMA TEK TEK

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14-8B Structural  
(2008) ...

Design of  
Concrete Masonry  
Foundation Walls  
(ref. 2) ... for  
Loadbearing  
Concrete Masonry  
Units, ASTM C 90  
(ref. 7),  
included  
slightly reduced  
minimum face  
shell thickness

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requirements for  
CMU 10 in. (254  
mm) and greater  
in width.

## **NCMA TEK**

Concrete masonry  
is one of the  
most versatile  
building  
products  
available  
because of the  
wide variety of

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appearances that can be achieved using concrete masonry units. Concrete masonry units are manufactured in different sizes, shapes, colors, and textures to achieve a number of finishes and functions.

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**TYPICAL SIZES  
AND SHAPES OF  
CONCRETE MASONRY  
UNITS - NCMA**

Concrete Masonry Units (CMU) can be used as a veneer cladding system. Veneer units are typically 4" wide x 8" high x 16" long (nominal

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dimensions) .

They are available in a multitude of colors and textures including split-face, ground face, polished face and glazed face.

**Concrete Masonry  
Units |**

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Masonry**

**Institute**

1.7

Specifications  
for Concrete  
Masonry Wall  
Units. Download  
(pdf 377.84KB) 2  
Properties of  
Concrete  
Masonry. ... The  
Concrete Masonry  
Manual, which

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was created in the late 1970s as a guide to the design and construction of concrete masonry, has been updated and is available in sections for free download as required. ...

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**nzcma.org.nz**

DESIGN AND  
CONSTRUCTION  
CONSIDERATIONS.

... concrete  
masonry units  
have required  
some form of  
coating to  
prevent  
rainwater from  
penetrating into

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the building.

Today, integral water repellents can be added into the mixes used to make both concrete masonry units and mortar. ...

This manual should identify and describe all of the materials and ...

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**MAINTENANCE OF  
CONCRETE MASONRY  
WALLS - NCMA**

An information  
series from the  
national  
authority on  
concrete masonry  
technology NCMA  
TEK 2-4C  
(replaces TEK  
2-4B) 1  
SEGMENTAL

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RETAINING WALL

UNITSTEK 2-4C

Unit Properties  
(2015)

INTRODUCTION

Mortarless

segmental

retaining walls

are a natural

en- hancement to

a variety of

landscape

projects.

Applications

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range from 8 in.  
(204 mm) high  
terraces for  
erosion control  
to ...

**SEGMENTAL  
RETAINING WALL  
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New Zealand  
Concrete Masonry  
Manual 1.0  
Introduction NZS  
4230 is the

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materials  
standard  
specifying the  
design and  
detailing  
requirements for  
masonry  
structures. The  
current version  
of this document  
has the full  
title ? NZS  
4230:2004 Design  
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**New Zealand  
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DESIGN AND  
CONSTRUCTION a  
complete manual  
of facts on  
designing and  
building with  
concrete masonry  
and related

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concrete units

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## **TEK MANUAL FOR CONCRETE MASONRY DESIGN AND CONSTRUCTION**

The use of Segmental Retaining Walls (SRWs) is a modern technique but concrete as a building material goes back to the

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Egyptians. Dry-cast or zero-slump concrete block products began in the United States in 1876, making one block unit at a time. A hundred years later, zero-slump concrete SRW units ... Read More »

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## **Technical - Concrete Masonry Designs**

Spec-Surface™  
block is made  
with a  
specialized mix  
design to  
produce a tight,  
smooth finished  
texture. The  
result is a unit  
that is less

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porous than traditional concrete masonry and requires fewer coats of paint and filler to acheive great results.

## **Products**

Masonry.

Definition:  
construction  
composed of

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shaped or molded units, usually small enough to be handled by one person and composed of stone, ceramic brick or tile, concrete, glass, adobe, or the like.- ACI Concrete Terminology. The most important

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structural use  
of masonry  
around the world  
is in the  
construction of  
bearing walls of  
houses.

**Masonry Topic -  
American  
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Institute**

[www.fema.gov](http://www.fema.gov)



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The configuration design of SRW units began with modifications to the standard 8 x 8 x 16 in. (203 x 203 x 406 mm) masonry unit (CMU) as this was the standard size manufacturing

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equipment could produce. The height of the units varied from three in. up to eight in. (76-203 mm), with some equipment cable of making a one foot tall (0.3 m) unit.

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