

Subject Index

Technical Notes on Brick Construction is a series of bulletins that contain design, detailing and construction information based on the latest technical developments in brick masonry. Drawings, photographs, tables and charts illustrate appropriate topics. They are available individually or as a set. Registered purchasers of a complete set will receive notification of new or revised editions via email.

Technical Notes on Brick Construction are recommendations on the use of fired clay brick. They are explicitly written for fired clay brick manufactured:

- 1) from clay, shale or similar naturally occurring earthy substances; and
- 2) with a firing process that creates a fired bond between the particles of the brick.

The properties of fired clay brick and the clay brick masonry made from them were used to establish the recommendations in these *Technical Notes*. Using these recommendations with other products that are not manufactured as outlined above may not result in the same performance associated with fired clay brick masonry. Further, use of these *Technical Notes* for the design, installation and maintenance of construction built with other products may in fact be detrimental to those products and the building on which they are installed. Thus, BIA does not advise the use of these recommendations with other products including but not limited to those claiming to be similar to fired clay brick products such as “fly ash” brick, concrete brick and other unfired or non-clay brick.

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SUBJECT	NUMBER	SUBJECT	NUMBER	SUBJECT	NUMBER
A		Cavity Walls	28D	Differential Movement	18, 18A
ADA	14E	Chimneys	19-19C	Bond Breaks	18A
Adhered Veneer	28C	Classification of Brick	9A	Expansion Joints in Paving.....	14 Series
Admixtures in Mortar	1, 8	Cleaning	1, 20	Expansion Joints in Walls	18A
Air Barriers	7, 7A	Efflorescence	20, 46	Flexible Anchorage	18A
Air Space	7, 7B	Coatings for Brick	6, 6A, 46	Material Properties.....	18
Anchor Bolts.....	44	Cold Weather Construction	1	Structures without Shelf Angles	18A
Anchors	28D, 44B, 46	Guide Specifications.....	11A	Volume Changes and Effects.....	18
Arches	31-31C	Color - Brick	9	Dimensioning	10
Construction	31	Mortar.....	8	Direct Gain, Passive Solar Heating	43
Flashing	31	Columns and Pilasters.....	3B	Drainage Materials	7A
Semi-circular	31C	Compressive Strength		Drainage Walls	7
Structural Design	31A	Brick Masonry	3A, 39A, 42	Drip Edge	7, 7A, 7B
ASTM International Standards		Brick Units	9A, 39		
Anchors and Ties.....	7A, 28B, 44B	Mortar.....	8 Series	E	
Brick	9A	Pavers.....	9A, 14	Efflorescence	
Mortar.....	8	Walls.....	39A, 42	Identification and Prevention	23
Pavers.....	9A, 14	Condensation.....	28B, 47	Causes and Prevention	23A
Testing.....	39 Series	Control Joints (see Expansion Joints)		Removal	20, 46
		Copings	36	Empirical Design of Brick Masonry.....	42
B		Corbels and Racking	36A	Energy	
Barrier Walls.....	7	Corrosion		Codes.....	4, 4A
Beams	17B	Metal Ties	7A, 44B	Embodied	48
Bearing Walls		Shelf Angles	7A	R-Values	4, 4A
Brick (see Engineered Brick Masonry)		Steel Lintels	7A, 31B	Thermal Conductivity.....	4
Brick and Concrete Masonry (CMU).....	28D	Coursing Tables for Brick.....	10	Thermal Conductance.....	4
Bonds and Patterns in Brickwork.....	30	Cracking	18	U-Factors.....	4, 4A
Paving Patterns.....	14, 29	Curtain and Panel Walls	17L		
Bond Breaks	18A				
Bond - Mortar.....	8 Series	D			
Reinforced Brick Masonry	17, 17A	Dampproofing	7, 46		
Brick Sizes	9B, 10				
C					
Calculated Fire Resistance	16				
Caps	36A				

SUBJECT	NUMBER	SUBJECT	NUMBER	SUBJECT	NUMBER
Engineered Brick Masonry		I		N	
Allowable Design Stresses	3A, 39A	Inspection	46	Noise Barrier Walls	45
Bearing Wall	24	Reinforced Brick Masonry	17A	Structural Design	45A
Building Code Requirements	3, 16	Initial Rate of Absorption	7A, 7B, 8B, 9A 9B, 39	P	
Construction	24F	Insulation	4, 4A, 7, 7A, 28D	Painting Brick Masonry	6
Detailing	24G	Ivy Removal	46	Parapets	7, 18 Series, 36A
Guide Specifications	11 Series	L		Passive Solar	
Material Properties	3A	Landscape Architecture	29-29B	Cooling	43C
Quality Control	39B	Accessibility	14E	Details	43G
Section Properties	3B	Garden Walls	29A	Heating	43
Shear Wall Design	24C	Miscellaneous Applications	29B	Materials	43D
Testing	39 Series	Paving	14 Series	Patterns	30
Wall Types and Properties	3B	Pedestrian Applications	29	Paving Systems	14 Series
Equivalent Thickness	16	Lateral Forces, Shear Wall Design	24C	Accessibility	14, 14E
Estimating Material Quantities	10	LEED	14D, 48	Adhesives	14B
Expansion Joints	18A	Lintels		Bases	14
Paving	14 Series	Reinforced Brick	17B	Bituminous Setting Bed	14B
F		Structural Steel	31B	Clay Pavers	9A, 14
Face Grouting	46	Loadbearing Brick Homes	26	Cleaning	20
Fasteners for Brick Masonry	44A	M		Coatings	6A
Fences	29A	Maintenance	46	Details	14 Series
Field Panels	9B	Cleaning	20	Drainage	14 Series
Fireplaces, Residential	19-19E	Manufacturing Brick	9	Edge Restraint	14 Series
Contemporary, Projected Corner,		Material Properties	3A	Expansion Joints	14 Series
Rumford, Multifaced	19C	Masonry Heaters	19D, 19E	Ice and Snow Removal	14
Details and Construction	19B	Mock-Ups	7B	Infiltration Rate	14D
Finnish Style Masonry Heater	19E	Modular Brick Masonry	10	Installation	14 Series
Russian Style Masonry Heater	19D	Moisture Control		Interlock	14A
Fire Resistance	16	Barrier Walls	7	Joint Sand	14A, 14B
Flashing, Types and Selection	7A	Caps and Copings	7, 36A	Maintenance	14 Series
Arches	31	Condensation	47	Managing Rainwater	14D, 48
Details	7	Corrosion	7A, 31B, 44B	Mortar Setting Bed	14C
Installation	7B	Drainage Walls	7	Patterns	14, 29
Replacement	46	Flashing	7A	Permeable Pavements	14, 14D
Flexible Paving Systems	14	Glazed Brick Walls	13	Root Control	14E
Floor-Wall Connections, Bearing Wall	26	Maintenance	46	Runoff Coefficient	14D
Freeze Thaw Durability	7A, 9A, 9B	Mortar	8	Sand Setting Bed	14A
Freezing, Protection from	1	Rain Screen Wall	27	Solar Reflectance	48
G		Repointing	46	Tack Coat	14B
Garden Walls	29A	Water Repellent Coatings	6A	Traffic	14
Girders, Reinforced Brick Masonry	17M	Weeps	7	Permeance	7, 7A
Glazed Brick		Moisture Expansion	18	Piers and Pilasters	3B
Specifications	9A	Mortar-Collection Devices	7A	Plant Removal	46
Walls	13	Mortars for Brickwork	8 Series	Portland Cement/Lime Mortar	8 Series
Glossary	2	Cold Weather Construction	1	Prefabricated Brick Masonry	
Green Building	48	Efflorescence	8, 23 Series	Introduction	40
Grout	17, 17A	Estimating Quantities	10	Thin Brick	28C
Properties	3A	Guide Specifications	11E	Pressure-Equalized Rain Screen Wall	27
Testing	39	Joints	7B		
Guide Specifications	11 Series	Materials	8		
H		Mixing	8B		
Heat Transmission, Coefficients of	4	Paving Systems	14, 14C		
High-Lift Grouting	17A	Quality Assurance	8B		
Hollow Brick Masonry	41	Reinforced Masonry	17A		
Reinforced	17 Series	Repointing	46		
Hot Weather Construction	1	Selection	8B		
		Movement (see Differential Movement)			

SUBJECT	NUMBER	SUBJECT	NUMBER
Reinforced Brick Masonry		Testing of Brick and Mortar.....	39 Series
Beams	17B	Allowable Design Stresses	3A, 39A
Curtain and Panel Walls	17L	Quality Control	39B
Flexural Design	17B	Thermal Bridge	4
Girders	17M	Thermal Expansion of Walls	18 Series
High-Lift Grouted	17A	Thermal Mass.....	4
History	17	Thermal Resistance	4
Hollow Brick Masonry	26, 41	Thermal Storage Walls, Passive Solar	
Inspection	17A	Heating.....	43
Lintel Design	17B	Thin Brick	28C
Materials	17A	Modular Panel.....	28C
Mortar and Grout	17A	Precast Concrete.....	28C
Specifications	11 Series	Prefabricated Panel	28C
Workmanship	17A	Thick Set.....	28C
Replacement Brick.....	46	Thin Set	28C
Repointing	46	Tilt-up Concrete.....	28C
Retrofit	28A	Ties and Reinforcement	
Rigid Paving Systems	14, 14C	Adjustable.....	44B
Rumford Fireplaces	19C	Corrosion Resistance	7A, 44B
R-Values	4, 4A, 4B	Joint Reinforcement.....	44B
S		Specifications	11A
Salvaged Brick.....	15	TMS 402 Building Code	3
Sample Panels	7B, 9	Tolerances	9A, 11C
Sealers (see Water Repellents)		Tooling	7B
Sealants.....	18A, 28, 46	Tuckpointing (see Repointing)	
Section Properties.....	3B	U	
Selection of Brick.....	9B	Used Brick.....	15
Serpentine Walls	29A	U-Factors.....	4, 4A, 4B
Service Life	46	V	
Shelf Angles		Vapor Diffusion.....	7
Typical Details	7, 28B	Vapor Retarders	7A
Corrosion Resistance	7A	Veneer Construction.....	28 Series
Single-Wythe Bearing Walls.....	7, 26	Concrete Masonry (CMU)	28D
Sills	36	Existing Construction.....	28A
Sizes of Brick	9B, 10	Hollow Brick.....	41
Slip/Skid Resistance	14, 14E	Steel Studs.....	28B
Soffits	36	Thin Brick Veneer	28C
Solar Energy (see Passive Solar Systems)		Wood Studs.....	28, 4A
Solar Reflectance	48	W	
Sound Barriers (see Noise Barrier Walls)		Wall Ties	28D, 44B, 46
Sound Insulation	5A	Water Penetration (see Moisture Control)	
Spalling	46	Water-Repellent Coatings	6A, 46
Specifications, General.....	11 Series	Water-Resistive Barriers	7, 7A
TMS 602 Specification	3	Weeps	7, 46
Brick	9A	Winter Construction (see Cold Weather	
Cold and Hot Weather Construction.....	1	Construction)	
Mortars.....	8, 11E	Wood Studs	28, 4A
Pavers.....	9A, 14	Workmanship.....	7B
Stains		Reinforced Brick Masonry	17A
Identification and Prevention	23	Specifications	11 Series
Removal	20		
Steel Studs.....	28B		
Steps and Ramps	29		
Sustainability	48		
Sustainable Development	29		
T			
Terminology.....	2		
Terraces.....	29		

Numerical Index

Technical Notes on Brick Construction are recommendations explicitly written for the design, installation and maintenance of masonry using fired clay brick. BIA does not advise the use of these recommendations with other products, including but not limited to those claiming to be similar to fired clay brick products.

Technical Notes are rewritten to include new technical information. The issue date of a current *Technical Note* is shown between brackets []. Current editions supersede earlier editions.

The designation **Reissued** indicates that the edition of the *Technical Note* shown in brackets [] has been thoroughly reviewed and found to be technically accurate. Other editions dated on or after the bracketed [] date are still valid; only minor editorial changes have been made. The reissued date appears in parentheses ().

Missing numbers have been discontinued.

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- 1 [June 2018] Hot and Cold Weather Construction
 - 2 **Rev** [Jan./Feb. 1975] (Reissued March 1999) Glossary of Terms Relating to Brick Masonry
 - 3 **Rev** [July 2002] Overview of Building Code Requirements for Masonry Structures ACI 530-02/ASCE 5-02/TMS 402-02 and Specifications for Masonry Structures ACI 530.1-02/ASCE 6-02/TMS 602-02
 - 3A [Dec. 1992] Brick Masonry Material Properties
 - 3B [May 1993] Brick Masonry Section Properties
 - 4 [Jan. 2016] Introduction to Energy Performance of Brick Masonry
 - 4A [June 2016] Residential Energy Code Compliance
 - 4B **Rev** [Feb. 2002] Energy Code Compliance of Brick Masonry Walls
 - 5A [June 1970] (Reissued Aug. 2000) Sound Insulation – Clay Masonry Walls
 - 6 **Rev** [May 1972] (Reissued Dec. 1985) Painting Brick Masonry
 - 6A [Aug. 2008] Colorless Coatings for Brick Masonry
 - 7 [Nov. 2017] Water Penetration Resistance – Design and Detailing
 - 7A [Nov. 2017] Water Penetration Resistance – Materials
 - 7B [Nov. 2017] Water Penetration Resistance – Construction and Workmanship
 - 8 [Jan. 2008] Mortars for Brickwork
 - 8B [Oct. 2006] Mortars for Brickwork – Selection and Quality Assurance
 - 9 [Dec. 2006] Manufacturing of Brick
 - 9A [Oct. 2007] Specifications for and Classification of Brick
 - 9B **Rev** [Dec. 2003] Manufacturing, Classification and Selection of Brick – Selection, Part III
 - 10 [Feb. 2009] Dimensioning and Estimating Brick Masonry
 - 11 **Rev** [Dec. 1971] (Reissued Aug. 2001) Guide Specifications for Brick Masonry, Part I
 - 11A **Rev** [June 1978] (Reissued Sept. 1988) Guide Specifications for Brick Masonry, Part II
 - 11B **Rev** [Feb. 1972] (Reissued Sept. 1988) Guide Specifications for Brick Masonry, Part III
 - 11C **Rev** [July 1972] (Reissued May 1998) Guide Specifications for Brick Masonry, Part IV
 - 11D [Aug. 1972] (Reissued Sept. 1988) Guide Specifications for Brick Masonry, Part IV Continued
 - 11E **Rev** [Sept. 1991] Guide Specifications for Brick Masonry, Part V, Mortar and Grout
 - 13 [June 2017] Ceramic Glazed Brick Exterior Walls
 - 14 [May 2017] Paving Systems Using Clay Pavers
 - 14A [May 2017] Paving Systems Using Clay Pavers on a Sand Setting Bed
 - 14B [June 2010] Paving Systems Using Clay Pavers on a Bituminous Setting Bed
 - 14C [July 2011] Paving Systems Using Clay Pavers in a Mortar Setting Bed
 - 14D [Feb. 2012] Permeable Clay Brick Pavements
 - 14E [July 2012] Accessible Clay Brick Pavements
 - 15 **Rev** [May 1988] Salvaged Brick
 - 16 [Mar. 2008] Fire Resistance of Brick Masonry
 - 17 **Rev** [Oct. 1996] Reinforced Brick Masonry, Introduction
 - 17A **Rev** [Aug. 1997] Reinforced Brick Masonry – Materials and Construction
 - 17B **Rev** [Mar. 1999] Reinforced Brick Masonry Beams
 - 17L **Rev** [Feb./Mar. 1973] (Reissued Sept. 1988) Four-inch RBM Curtain and Panel Walls
 - 17M [July 1968] (Reissued Sept. 1988) Reinforced Brick Masonry Girders – Examples
 - 18 [May 2019] Volume Changes – Analysis and Effects of Movement
 - 18A [May 2019] Accommodating Expansion of Brickwork
 - 19 **Rev** [Jan. 1993] Residential Fireplace Design
 - 19A **Rev** [May 1980] (Reissued Aug. 2000) Residential Fireplaces, Details and Construction
 - 19B **Rev** [June 1980] (Reissued Apr. 1998) Residential Chimneys – Design and Construction
 - 19C **Rev** [Oct. 2001] Contemporary Brick Masonry Fireplaces
 - 19D [Jan. 1983] (Reissued June 1987) Brick Masonry Fireplaces, Part I, Russian-Style Heaters
 - 19E [1983] (Reissued Feb. 1998) Brick Masonry Fireplaces, Part II Fountain and Contemporary Style Heaters
 - 20 [Aug. 2018] Cleaning Brickwork
 - 23 [June 2019] Stains – Identification and Prevention
 - 23A [June 2019] Efflorescence – Causes and Prevention
 - 24 **Rev** [June 2002] Brick Masonry Bearing Walls – Introduction
 - 24C **Rev** [Sept./Oct. 1970] (Reissued May 1988) The Contemporary Bearing Wall – Introduction to Shear Wall Design
 - 24F **Rev** [Nov./Dec. 1974] (Reissued Sept. 1988) The Contemporary Bearing Wall – Construction
 - 24G [Dec. 1968] (Reissued Feb. 1987) The Contemporary Bearing Wall – Detailing
 - 26 **Rev** [Sept. 1994] Single Wythe Bearing Walls
 - 27 **Rev** [Aug. 1994] Brick Masonry Rain Screen Walls
 - 28 **Rev** [Nov. 2012] Anchored Brick Veneer/Wood Stud Walls
 - 28A [Apr. 2008] Adding Brick Veneer to Existing Construction
 - 28B [Dec. 2005] Brick Veneer / Steel Stud Walls
 - 28C [Apr. 2014] Thin Brick Veneer
 - 28D [June 2018] Brick Veneer/Concrete Masonry Walls
 - 29 **Rev** [July 1994] Brick in Landscape Architecture – Pedestrian Applications
 - 29A **Rev** [Nov. 1968] (Reissued Jan. 1999) Brick in Landscape Architecture – Garden Walls
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- 29B** [Apr. 1967] (Reissued May 1988) Brick in Landscape Architecture – Miscellaneous Applications
- 30 Rev** [Mar. 1999] Bonds and Patterns in Brickwork
- 31 Rev** [Jan. 1995] Brick Masonry Arches
- 31A** [Oct. 1967] (Reissued July 1986) Structural Design of Brick Masonry Arches
- 31B Rev** [Nov./Dec. 1981] (Reissued May 1987) Structural Steel Lintels
- 31C Rev** [Feb. 1971] (Reissued Aug. 1986) Structural Design of Semicircular Brick Masonry Arches
- 36 Rev** [July/Aug. 1981] (Reissued Jan. 1988) Brick Masonry Details, Sills and Soffit
- 36A Rev** [Sept./Oct. 1981] (Reissued Feb. 2001) Brick Masonry Details, Caps and Copings, Corbels and Racking
- 39 Rev** [Nov. 2001] Testing for Engineered Brick Masonry – Brick and Mortar
- 39A** [July/Aug. 1975] (Reissued Dec. 1987) Testing for Engineered Brick Masonry – Determination of Allowable Design Stresses
- 39B Rev** [Mar. 1988] Testing for Engineered Brick Masonry – Quality Control
- 40 Rev** [Aug. 2001] Prefabricated Brick Masonry – Introduction
- 41** [Jan. 2008] Hollow Brick Masonry
- 42 Rev** [Nov. 1991] Empirical Design of Brick Masonry
- 43 Rev** [May/June 1981] Passive Solar Heating with Brick Masonry – Part I Introduction
- 43C** [Mar. 1980] (Reissued Feb. 2001) Passive Solar Cooling with Brick Masonry, Part I – Introduction
- 43D** [Sept./Oct. 1980] (Reissued Sept. 1988) Brick Passive Solar Heating Systems, Part IV – Material Properties
- 43G** [Mar./Apr. 1981] (Reissued Sept. 1986) Brick Passive Solar Heating Systems, Part VII – Details and Construction
- 44** [Apr. 1986] Anchor Bolts for Brick Masonry
- 44A** [May 1986] (Reissued Aug. 1997) Fasteners for Brick Masonry
- 44B Rev** [May 2003] Wall Ties for Brick Masonry
- 45** [Feb. 1991] (Reissued July 2001) Brick Masonry Noise Barrier Walls – Introduction
- 45A** [Apr. 1992] Brick Masonry Noise Barrier Walls – Structural Design
- 46** [Dec. 2017] Maintenance of Brick Masonry
- 47** [June 2006] Condensation – Prevention and Control
- 48** [Nov. 2015] Sustainability and Brick

Changes to *Technical Notes* (since December 2005)

Revised

1.....	June 2018
4.....	January 2016
4A.....	June 2016
6A.....	August 2008
7.....	November 2017
7A.....	November 2017
7B.....	November 2017
8.....	January 2008
8B.....	October 2006
9.....	December 2006
9A.....	October 2007
10 (replaces 10, 10A & 10B).....	February 2009
13.....	June 2017
14.....	May 2017
14A.....	May 2017
14B.....	June 2010
14C.....	July 2011
14D.....	February 2012
14E.....	July 2012
16 (replaces 16 & 16B).....	March 2008
18.....	May 2019
18A.....	May 2019
20.....	August 2018
23.....	June 2019
23A.....	June 2019
28.....	November 2012
28A.....	April 2008
28B.....	December 2005
28C.....	April 2014
28D.....	June 2018
41.....	January 2008
46 (replaces 7F).....	December 2017
47 (replaces 7C & 7D).....	June 2006
48.....	November 2015

Retired

7C (replaced by 47).....	June 2006
7D (replaced by 47).....	June 2006
7F (replaced by 46).....	December 2005
8A.....	January 2008
10A (replaced by 10).....	February 2009
10B (replaced by 10).....	February 2009
16B (replaced by 16).....	March 2008
21 (replaced by 28D).....	June 2018
21A (replaced by 28D).....	June 2018
21B (replaced by 28D).....	June 2018
21C (replaced by 28D).....	June 2018