

Manual of Contract Documents for Highway Works

Geotechnics
Contract preparation

CP 607 Instructions for specifiers for CC 607 Reinforced Clay Brickwork Retaining Walls of Pocket-type and Grouted-Cavity Construction (formerly 2500 Cl. 2503)

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Latest release notes

Document Code	Version number	Date of publication of relevant change	Changes made to	Type of change
CP 607	LIVE_2025-01-09	Not available	Core document, England NAA, Northern Ireland NAA, Scotland NAA, Wales NAA	Change to policy, major revision, new document development
MCHW Series NG 2500, Clause 2503: Reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction has been rewritten to make it compliant with the new National Highways standards drafting rules.				

Previous versions

Document Code	Version number	Date of publication of relevant change	Changes made to	Type of change
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Foreword

This document provides specifier instructions for the production of the works specific requirements for CC 607 Reinforced Clay Brickwork Retaining Walls of Pocket-type and Grouted-Cavity Construction (formerly 2500 Cl. 2503).

This document does not form part of the works specification.

The works specification is made up of both the Specification for Highway Works and the works specific requirements completed by the Specifier.

This document is applicable for contracts throughout the UK, complemented by the additional specification requirements and contractual changes of each Overseeing Organisation.

Users are responsible for applying all appropriate documents applicable to their contract.

Users are responsible for archiving contract documentation in accordance with the user's quality management system.

1. Reinforced Clay Brickwork Retaining Walls of Pocket-type and Grouted-Cavity Construction

General requirements for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.1 Reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction shall be in accordance with the requirements of this document.

1.2 Location and general arrangement of the reinforced clay brickwork retaining wall of pocket-type and grouted-cavity construction shall be as stated in CC 607/WSR/001.

Location and general arrangement of the reinforced clay brickwork retaining wall of pocket-type and grouted-cavity construction		
structure number	drawing/model number	drawing/model title
(a)	(b)	(c)

- a. Enter a unique reference.
- b. Enter a unique reference.

- c. Enter text, to identify the drawing/model title.

Contractor design of reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.3 The reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction that are to be Contractor design items shall be as stated in CC 607/WSR/001.

SI.1.3a The Contractor design items shall be; [enter free text].

SI.1.3b The following site specific constraints shall apply; [enter free text].

1.4 The design of reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction shall be in accordance with BS EN 1996-2 [Ref 3.N]and BS EN 1996-1-1 [Ref 4.N].

1.5 The design of reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction shall be in accordance with CC 607/WSR/001.

Sl.1.5 The Contractor design of reinforced clay brickwork shall be [enter free text].

1.6 The requirements for "Technical approval of highway structures" in Section 18 of GC 101 [Ref 5.N] shall apply to the design of reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction.

1.7 The requirements for "Contractor design" in Section 17 of GC 101 [Ref 5.N] shall apply to the design of reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction.

1.8 The following Documentation shall be submitted for approval and be approved prior to the commencement of installation of the reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction:

1. CG 300 [Ref 12.N] Approval in Principle, Design and Check Certificate,
2. CD 622 [Ref 6.N] Geotechnical Design Report.

1.9 The requirements for "Documentation" in Section 2 of GC 101 [Ref 5.N] shall apply to the documentation for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction.

Earthworks for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.10 Earthworks for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction shall be in accordance with CC 601 [Ref 2.N].

Water for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.11 Water to be used for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction shall comply with "Water for masonry mortar" in Section 4 of CC 491 [Ref 7.N].

Bricks for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

Product requirements for bricks for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.12 Bricks for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction shall be compliant with BS EN 771-1 [Ref 9.N].

1.13 The bricks shall meet the following performance characteristics: 1. Clay engineering bricks Class B according to Table NA.6. 2. U-units for unprotected masonry according to Table ZA1.2.

1.14 The requirements of "Designated standards" in Section 10 of GC 101 [Ref 5.N] shall apply to bricks for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction.

Installation requirements for bricks for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.15 Brickwork for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction shall be installed in accordance with "Brickwork and blockwork" in Section 13 of CC 491 [Ref 7.N].

1.16 Where sleeves, chases or holes are required for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction, they shall be provided during the erection of brickwork.

1.17 Jointing shall be used for finishing mortar joints of reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction as work proceeds in accordance with BS EN 1996-2 [Ref 3.N].

1.18 The retaining back face of the reinforced clay brickwork retaining wall of pocket-type and grouted-cavity construction shall be jointed with flush profile prior to the application of waterproofing material.

1.19 The front face of the reinforced clay brickwork retaining wall of pocket-type and grouted-cavity construction shall be jointed with a bucket handle profile, unless otherwise stated in CC 607/WSR/001.

SI.1.19 The alternative requirements of jointing at the front face of the wall shall be [enter free text].

1.20 Brickwork for reinforced clay brickwork retaining wall of pocket-type and grouted-cavity construction shall be as stated in CC 607/WSR/001.

Brickwork for reinforced clay brickwork retaining wall of pocket-type and grouted-cavity construction				
structure number	drawing/ model number	brickwork bond type	alternative front face joint finish profile	maximum brickwork height to avoid over stressing fresh mortar
(a)	(b)	(c)	(d)	(e)

- a. Enter a unique reference.
- b. Enter a unique reference.
- c. Enter text, to identify the brickwork bond type for the reinforced clay brickwork retaining wall of pocket-type and grouted-cavity construction.

- d. Enter text, to identify the front face joint finish profile as an alternative to the bucket handle profile.
- e. Enter a number, to identify the limit on construction height of the brickwork between construction stages to avoid over stressing of the fresh mortar and instability.

Mortar for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

Product requirements for mortar for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.21 All mortar for reinforced clay brickwork retaining walls of pocket-type and grouted-gravity construction shall comply with requirements for Masonry mortar in CC 491 [Ref 7.N], unless where different requirements are given in this document.

1.22 Admixtures for mortar for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction shall comply with "Masonry mortar" in Section 5 of CC 491 [Ref 7.N].

1.23 Masonry cement that falls within the scope of BS EN 413-1 [Ref 8.N] shall not be used as a constituent for mortar for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction.

1.24 Calcium Aluminate Cement shall not be used as a constituent for mortar for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction.

1.25 Mortar for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction prior to back-filling behind the wall shall be as stated in CC 607/WSR/001.

Mortar for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction prior to back-filling behind the wall					
structure number	drawing/ model number	morta r type	proportions of constituent materials	admixtures requirements	compressive strength before back-filling
(a)	(b)	(c)	(d)	(e)	(f)

- a. Enter a unique reference.
- b. Enter a unique reference.

- c. Enter a value, from options site-made, semi-finished factory made, factory-made, to identify the type of mortar according to method of manufacture.
- d. Enter text, to identify the proportions of the constituent materials of the mortar relating to the mortar exposure class in accordance with BS EN 1996-2 [Ref 3.N].
- e. Enter a value, from options required, not required, to identify if admixtures are required.
- f. Enter a number in units of , to identify minimum compressive strength of the mortar before start of earthwork back-filling behind the reinforced clay brickwork retaining wall.

Product verification for mortar for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.26 Verification shall be undertaken for mortar for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction by testing for compressive strength in accordance with testing requirements for Masonry mortar in CC 491 [Ref 7.N].

1.27 The frequency of verification for mortar for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction shall be one set of three per mortar type per structure in accordance with CC 491 [Ref 7.N] unless otherwise stated in CC 607/WSR/001.

SI.1.27 The verification requirements of mortar where those are different from the requirements of CC 491 [Ref 7.N] shall be [enter free text].

1.28 The requirements for "Verification" in Section 14 of GC 101 [Ref 5.N] shall apply to the verification of mortar for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction.

Installation requirements for mortar for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.29 Installation of mortar for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction shall be in accordance with CC 491 [Ref 7.N].

1.30 Mortar shall not be used to fill the pocket and cavity of reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction.

1.31 Installation of factory-made and semi-finished factory-made mortar for reinforced clay brickwork retaining walls of pocket-type and grouted-

cavity construction shall be in accordance with the manufacturer's instructions.

1.32 Installation of admixtures for mortar for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction shall be in accordance with the manufacturer's instructions.

Documentation requirements for mortar for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.33 The following Documentation shall be submitted for mortar strength prior to the commencement of back-filling behind the reinforced clay brickwork retaining wall: report demonstrating that the mortar has achieved required strength prior to earthwork back-filling behind the retaining wall.

1.34 The following Documentation shall be submitted for factory made and semi-finished factory made mortar for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction prior to the commencement of installation: manufacturer's instructions.

1.35 The requirements for "Documentation" in Section 2 of GC 101 [Ref 5.N] shall apply to the documentation for factory made and semi-factory made mortar.

1.36 The following Documentation shall be submitted for admixtures for mortar for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction prior to the commencement of installation: manufacturer's instructions.

1.37 The requirements for "Documentation" in Section 2 of GC 101 [Ref 5.N] shall apply to the documentation for the installation of admixtures for mortar.

Concrete for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

Product requirements for concrete for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.38 Concrete for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction shall comply with CC 482 [Ref 11.N] unless where different requirements are given in this document.

1.39 Concrete for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction shall comply with "Concreting of structural concrete" in Section 6 of CC 482 [Ref 11.N].

1.40 Concrete for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction prior to back-filling behind the wall shall be stated in CC 607/WSR/001.

Concrete for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction prior to back-filling behind the wall			
structure number	drawing/model number	compressive strength before back-filing	other requirements
(a)	(b)	(c)	(d)

- a. Enter a unique reference.
- b. Enter a unique reference.
- c. Enter a number in units of , to identify minimum strength of the concrete prior to start of earthwork back-filling behind the wall.
- d. Enter text, to identify other requirements for concrete.

Product verification for concrete for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.41 Verification shall be undertaken for the concrete by testing for compressive strength in accordance with testing requirements for Concreting of structural concrete in CC 482 [Ref 11.N] prior to earthwork back-filling behind the reinforced clay brickwork retaining wall.

1.42 The frequency of verification for concrete shall be in accordance with testing frequency for Concreting of structural concrete in CC 482 [Ref 11.N].

1.43 The requirements for "Verification" in Section 14 of GC 101 [Ref 5.N] shall apply to the verification of concrete for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction.

Installation requirements for concrete for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.44 Transportation, placement, compaction and finishing of concrete shall comply with "Concreting of structural concrete" in Section 6 of CC 482 [Ref 11.N].

1.45 The placement and compaction of concrete shall not affect the performance of either the brickwork or the reinforcement.

Documentation requirements for concrete for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.46 The following Documentation shall be submitted for concrete strength prior to the commencement of back-filling behind the reinforced clay retaining wall: report demonstrating that the concrete has achieved required strength prior to earthwork back-filling behind the wall.

Reinforcement for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

Product requirements for reinforcement for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.47 Reinforcement to be laid between brickwork for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction shall comply with "Reinforcement for masonry" in Section 11 of CC 491 [Ref 7.N].

1.48 Reinforcement to be laid in the pockets and cavities of reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction shall be in accordance with CC 482 [Ref 11.N].

1.49 Wall ties for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction shall comply with "Metal ancillary components for masonry" in Section 12 of CC 491 [Ref 7.N].

1.50 Dove-tail wall ties shall not be used for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction.

1.51 Stainless steel reinforcement for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction shall be compliant with BS EN 10088-5 [Ref 10.N].

1.52 The stainless steel reinforcement shall meet the following performance characteristics: Steel designation 1.4401.

1.53 The requirements for "Product certification schemes" in Section 11 of GC 101 [Ref 5.N] shall apply to stainless steel reinforcement.

1.54 Reinforcement for reinforced clay brickwork of pocket-type and grouted-cavity construction shall be stated in CC 607/WSR/001.

Reinforcement for reinforced clay brickwork of pocket-type and grouted-cavity construction						
structure number	drawing/model number	brickwork reinforcement	pocket reinforcement	cavity reinforcement	wall tie	reinforcement configuration
(a)	(b)	(c)	(d)	(e)	(f)	(g)

- a. Enter a unique reference.
- b. Enter a unique reference.
- c. Enter a unique reference, to identify reinforcement to be laid between the brickwork beds / joints.
- d. Enter a unique reference, to identify reinforcement to be laid in the pockets of the brickwork.
- e. Enter a unique reference, to identify reinforcement to be laid in the cavities of the brickwork.
- f. Enter a unique reference, to identify type of wall ties required for the brickwork.
- g. Enter text, to identify the details of the reinforcements and wall ties including size and spacing.

Product verification for reinforcement for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.55 Verification shall be undertaken for reinforcement delivered to site by checking against the reinforcement product requirements.

1.56 The frequency of verification for reinforcement shall be per reinforcement type per delivery unless otherwise stated in CC 607/WSR/001.

SI.1.56 The verification requirements for reinforcement shall be [enter free text].

1.57 The requirements for "Verification" in Section 14 of GC 101 [Ref 5.N] shall apply to verification of the reinforcement delivered to site.

Installation requirements for reinforcement for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.58 Installation of reinforcement laid between the brickwork of reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction shall be in accordance with CC 491 [Ref 7.N].

1.59 Installation of reinforcement laid in pockets and cavities of reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction shall be in accordance with CC 482 [Ref 11.N].

1.60 All metallic components in contact shall be of electrolytically compatible materials to avoid preferential corrosion.

Documentation requirements for reinforcement for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.61 The following Documentation shall be submitted for reinforcement laid between brickwork for reinforced clay retaining walls of pocket-type and grouted-cavity construction prior to the commencement of installation: report demonstrating that the reinforcement between brickwork meets the product requirements of CC 491 [Ref 7.N].

1.62 The following Documentation shall be submitted for reinforcement laid in pockets and cavities for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction prior to the commencement of installation: report demonstrating that the reinforcement for the pockets and cavities meet the product requirements of CC 482 [Ref 11.N].

1.63 The following Documentation shall be submitted for wall ties for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction prior to the commencement of installation: report demonstrating that the wall ties meet the product requirements of CC 491 [Ref 7.N].

1.64 The requirements for "Documentation" in Section 2 of GC 101 [Ref 5.N] shall apply to documentation for wall ties for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction.

Waterproofing for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

Product requirements for waterproofing for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.65 The retaining back face of the reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction shall be treated with waterproofing materials compliant with "Waterproofing below ground concrete surfaces" in Section 3 of CC 488 [Ref 13.N].

Documentation requirements for waterproofing for reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.66 The following Documentation shall be submitted for waterproofing material prior to the commencement of installation: report demonstrating that the water proofing meets the requirements of CC 488 [Ref 13.N].

Drainage behind reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

Product requirements for drainage behind reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.67 Drainage behind reinforced clay brickwork retaining walls or pocket-type and grouted-cavity construction shall be permeable in accordance with "Permeable backing to earth retaining structures" in Section 10 of CC 500 [Ref 1.N].

Documentation requirements for drainage behind reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction

1.68 The following Documentation shall be submitted for drainage behind reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction the prior to the commencement of installation: report demonstrating that the drainage meets the requirements of CC 500 [Ref 1.N].

1.69 The requirements for "Documentation" in Section 2 of GC 101 [Ref 5.N] shall apply to the documentation for drainage behind the reinforced clay brickwork retaining walls of pocket-type and grouted-cavity construction.

2. Normative references

The following documents, in whole or in part, are normative references for this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

Ref.	Document
Ref 1.N	National Highways. CC 500, 'Drainage'
Ref 2.N	National Highways. CC 601, 'Earthworks'
Ref 3.N	BSI. BS EN 1996-2, 'Eurocode 6. Design of masonry structures. Design considerations, selection of materials and execution of masonry'
Ref 4.N	BSI. BS EN 1996-1-1, 'Eurocode 6. Design of masonry structures. General rules for reinforced and unreinforced masonry structures'
Ref 5.N	National Highways. GC 101 'General requirements for the Specification for Highway Works'
Ref 6.N	National Highways. CD 622, 'Managing geotechnical risk'
Ref 7.N	National Highways. CC 491, 'Brickwork, Blockwork and Stonework'
Ref 8.N	BSI. BS EN 413-1, 'Masonry cement - Composition, specifications and conformity criteria (Designated Standard - CPR)'
Ref 9.N	BSI. BS EN 771-1, 'Specification for masonry units. Clay masonry units (Designated Standard - CPR)'
Ref 10.N	BSI. BS EN 10088-5, 'Stainless steels. Technical delivery conditions for bars, rods, wire, sections and bright products of corrosion resisting steels for construction purposes (Designated Standard - CPR)'
Ref 11.N	National Highways. CC 482, 'Structural concrete'
Ref 12.N	National Highways. CG 300, 'Technical approval of highway structures'
Ref 13.N	National Highways. CC 488, 'Waterproofing for concrete structures'

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