Yr Amgylchedd Adeiledig
Built Environment

Llyfr Gwaith Bricwaith
Brickwork Workbook

Cwrs:
Course:

Lefel:
Level:

Uned: Ymarferion i ddatblygu Gwybodaeth Greiddiol ar gyfer Adeiladu Waliau Solet, Pileri Ynysig a Chysylltiedig
Unit: Exercises to develop Underpinning knowledge for Building Solid Walling, Isolated and Attached Piers

Enw'r Ymgeisydd: Name of Candidate:	
Enw'r Tiwtor: Name of Tutor:	

Mae rhywfaint o'r cynnwys yn y llyfr gwaith hwn yn rodd hael gan City & Guilds.

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Crewd gan yr adran Dysgu a Gyfoethogir gan Dechnoleg yn YDDS
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Croeso / Welcome

Gwella Llythrennedd: gweithio gyda'n gilydd!
Improving Literacy: working together!

S/Sp - Sillafu / Spelling

PB/SS - Patrwm Brawddeg / Sentence Structure

A/R - Ailadrodd / Repetition

At/P - Atalnodi / Punctuation

Pr/C - Priflythyren / Capital Letter

✓ - Adran wedi'i hysgrifennu'n dda / well written section

✓✓ - Adran wedi'i hysgrifennu'n dda iawn / Very well written section

GA/WW - Gair Anghywir / Wrong Word

// - Paragraff / Paragraph

AB/T - Amser Berf / Tense and Agreement

^ - Gair ar Goll / Missing Word

Termau Dwyieithog / Bilingual Terms

Dyddiad – Date	Cymraeg – Welsh	Saesneg – English	Diffiniad – Definition

Tasg 1/ Task 1

1

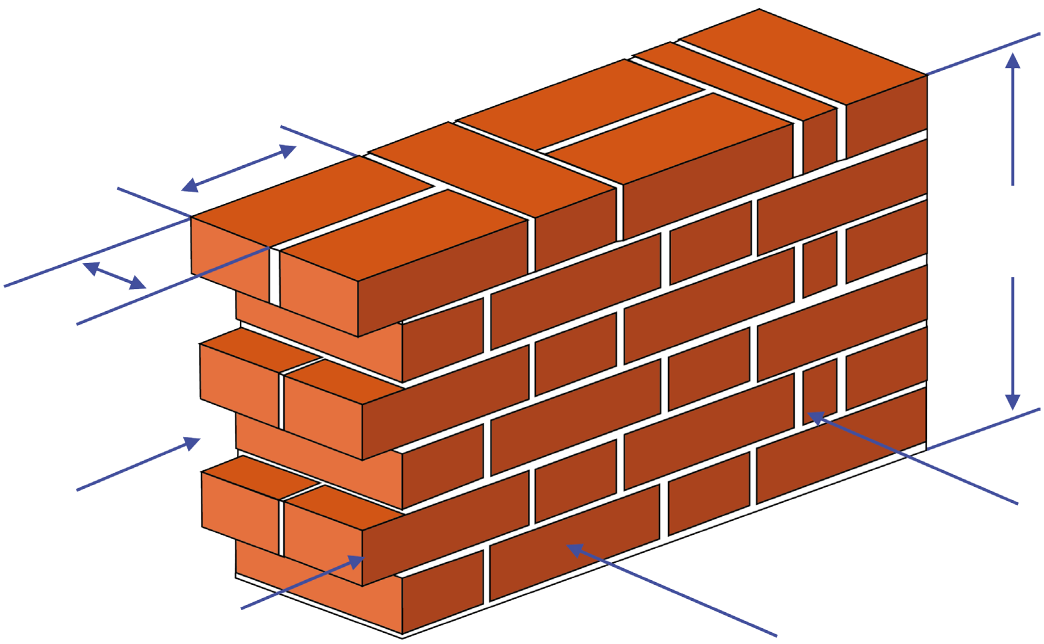
Nodi Rhannau Wal Solet / Identifying Parts of a Solid Wall

Labelwch y diagram isod.

Label the diagram below.

Nodwch beth yw'r bondin bricwaith isod

Identify the brickwork bond below ______________________________



Rhowch enghraifft o ble y byddid yn defnyddio y bondin hwn?

Give an example of where this bond would be used?

____

____

____

Tasg 2 / Task 2

2

Scenarios Adeiladu Waliau Solet / Solid Walling Scenarios

Rhannwch y dosbarth i grwpiau o dri neu bedwar, rhowch un o’r senarios i bob grŵp a gofynnwch iddynt drafod pa faterion allai godi. Rhowch bymtheg munud i’r grwpiau i drafod ac yna gofynnwch iddynt gofnodi eu canfyddiadau yn unigol cyn trafod y canfyddiadau fel dosbarth.

Split the class into groups of three or four, give each group one of the scenarios and ask them to discuss what issues might arise. Allow the groups fifteen minutes for discussion then ask them to record their findings individually before discussing the findings as a class.

1. Gofynnwyd i Michael gwblhau’r bricwaith ar dalcen tŷ. Mae’n gweld bod tyllau yn y briciau sydd wedi cael eu defnyddio. Yr unig offer sydd gan Michael yn ei fag offer yw morthwyl a bolster, a ddylai ef barhau gyda’r gwaith?

   Michael has been asked to complete the brickwork on a gable end. He has discovered that the bricks used have holes in them. The only tools Michael has in his tool bag are a hammer and bolster, should he continue with the job?

2. Mae Anthony ar fin codi wal trwch un fricsen, sydd yn 30 m o hyd, 1.5 m o uchder ac mae'n defnyddio bondin Seisnig. Mae eisoes wedi gosod y sylfeini concrit ac mae ganddo'r holl ddefnyddiau angenrheidiol ar y safle yn barod i'w defnyddio. Allwch chi ragweld unrhyw broblemau?

Anthony is about to build a 1 brick thick wall, which is 30 m long, 1.5m high and is using English bond. He has already laid the concrete foundations and has all the required materials on site ready to use. Can you foresee any problems?

3. Mae Mike yn adeiladu wal solet yn ystod misoedd y gaeaf, mae'r tymheredd i fod i ostwng yn is na rhewi dros nos. Fel rhagofal, beth ddylai ddefnyddio i amddiffyn y wal mae newydd ei hadeiladu?

Mike is building a solid wall during the winter months, the temperature is due to fall below freezing overnight. As a precaution, what should he use to protect the newly built wall?

4. Mae Phil i fod i adeiladu wal solet, mae wedi penderfynu defnyddio bondin Seisnig yn hytrach na bondin Ffleminaidd. Allwch chi nodi beth yw'r prif fantais o ddefnyddio bondin Seisnig?

Phil is due to build a solid wall, he has decided to use English bond over Flemish bond. Can you identify the main advantage of using English bond?

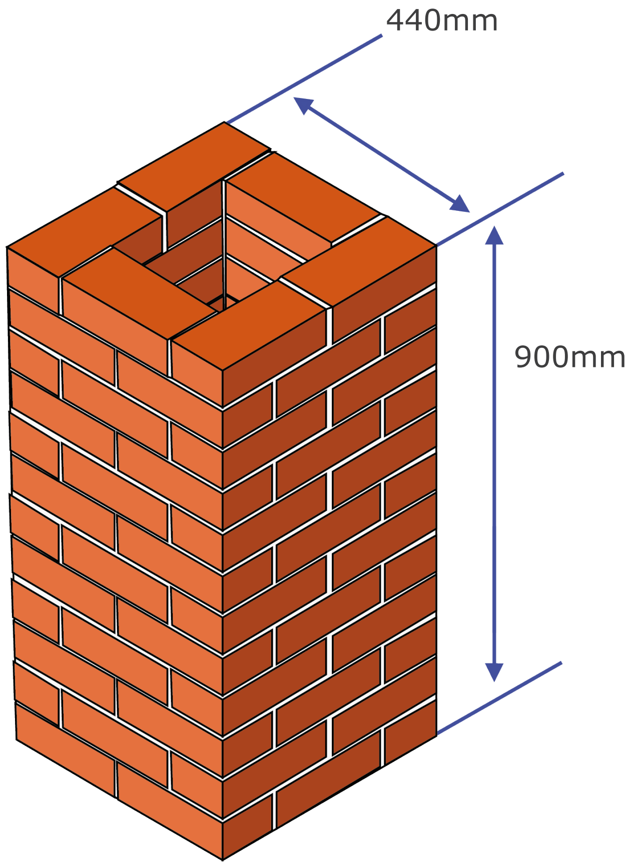
Tasg 3 / Task 3

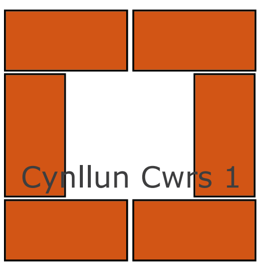
3

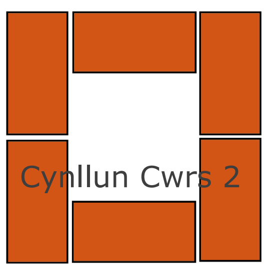
Cyfrifiadau Pileri / Pier Calculations

Gan ddefnyddio'r wybodaeth yn y lluniad isod bydd angen i chi gyfrifo faint o friciau fydd eu hangen i adeiladu 3 o'r pileri. Dangoswch eich cyfrifiadau ar y dalennau atodedig.

Using the information in the drawing below you will need to calculate the amount of bricks required to build 3 of the piers. Please show your calculations on the attached sheets.







Dalen Gyfrifo / Calculation Sheet:

Faint o friciau fyddai eu hangen petai’r piler wedi ei adeiladu’n solet? (Dangoswch yr ateb ar ddalen gyfrifo).

How many bricks would be required if the pier was of a solid construction? (Show answer on calculation sheet).

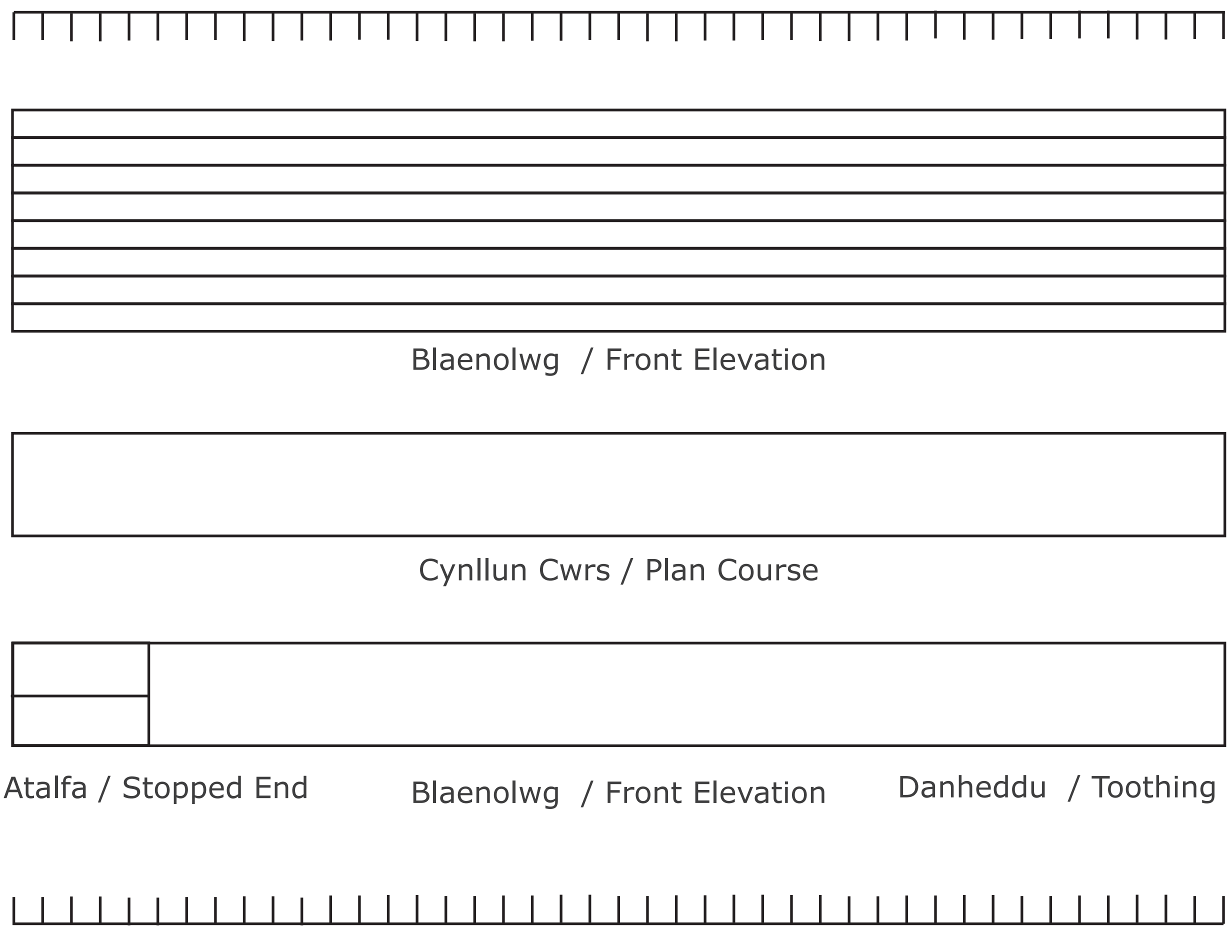
4

Tasg 4 / Task 4

Dyluniad Bondin Waliau Solet / Solid Walling Bond Design

Gofynnwyd i chi adeiladu wal gynhaliol gan ddefnyddio bondin mur gardd Ffleminaidd, bydd angen i chi gwblhau'r daflen waith isod i ddangos cynllun y bondin i'w ddefnyddio.

You have been asked to build a retaining wall using Flemish garden wall bond, you will need to complete the worksheet below to show the design of the bond to be used.



Rhaniadau = ¼ Bricsen / Divisions = 1/4 Brick

Graddfa 1:10 / Scale 1:10

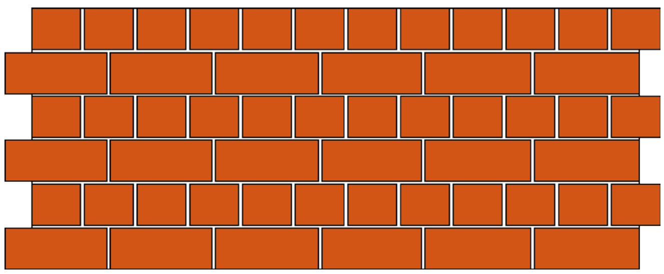
Tasg 5 / Task 5

Nodi Bondiau Waliau Solet
Identification of Solid Walling Bonds

Isod mae gwahanol fathau o fondin sy'n cael eu defnyddio i godi waliau solet, enwch bob bondin a nodwch ble gellid eu defnyddio.

Below are different types bonds used to construct solid walling, identify each bond and state where they could be used.

1.



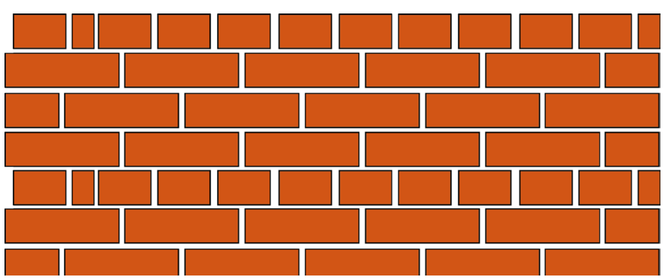
Math o Fondin Wal Solet:
Solid Wall Bond Type: ____________________

Nodwch ble gellid defnyddio'r bondin hwn?
State where this bond could be used? ____________________

____

____

2.

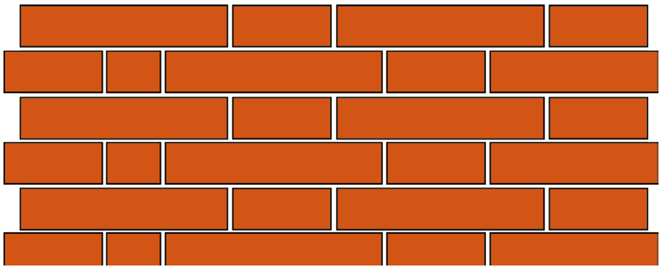


Math o Fondin Wal Solet:
Solid Wall Bond Type: ____________________

Nodwch ble gellid defnyddio’r bondin hwn?
State where this bond could be used? ______________________

____

3.



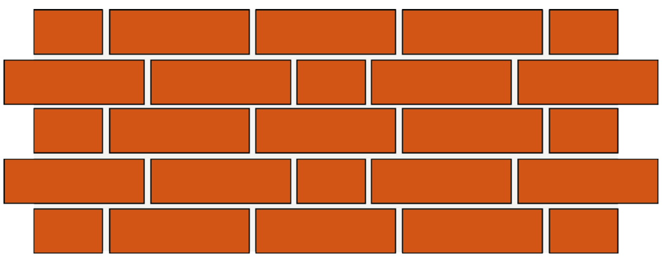
Math o Fondin Wal Solet:
Solid Wall Bond Type: ______________________

Nodwch ble gellid defnyddio’r bondin hwn?
State where this bond could be used? ______________________

____

____

4.



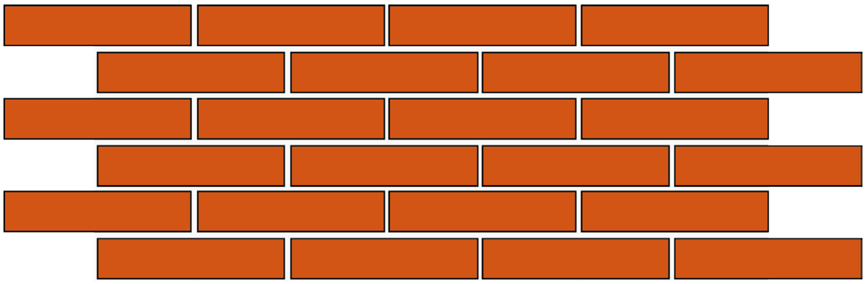
Math o Fondin Wal Solet:
Solid Wall Bond Type: ______________________

Nodwch ble gellid defnyddio’r bondin hwn?
State where this bond could be used? ______________________

____

____

5.



Math o Fondin Wal Solet:
Solid Wall Bond Type: ______________________________

Nodwch ble gellid defnyddio’r bondin hwn?
State where this bond could be used? ______________________________

____

____

6. Pa un o’r bondiau uchod sydd gryfaf ac esboniwch pam?

6. Which of the above bonds is the strongest and explain why?

____

____

____

____

____

____

____

Tasg 6 / Task 6

6

Beth yw Bandin?
What is Banding?

Gofynnwyd i'ch cwmni chi adeiladu wal, gan ddefnyddio briciau a ddewiswyd gan y cwsmer, mae'r briciau i'w defnyddio yn cael eu disgrifio fel 'aml'. Mae'r pensaer wedi gadael cyfarwyddyd yn nodi y dylid osgoi 'bandin'.

Your company has been asked to build a wall, using bricks the customer has selected, the bricks to be used are described as 'multi'.
An instruction has been left by the architect that 'banding' is to be avoided.

1. Esboniwch beth yw ystyr y term 'bandin'.

Explain what is meant by the term 'banding'.

2. Sut y gellir osgoi 'bandin' a pha gamau dylech eu cymryd?

How can 'banding' be avoided and what steps should you take?

Adborth / Feedback

Sylwadau'r Ymgeisydd / Candidate's Comments:

Adborth Yr Aseswr / Assessor's Feedback:

Cafodd y gwaith/asesiad hwn ei wneud dan amodau arholiad Do / Naddo

This work/assessment carried out under examination conditions Yes/ No

Nifer y cwestiynau / adrannau y rhoddwyd cynnig arnynt Number of questions/sections attempted	
Nifer y cwestiynau / adrannau a atebwyd yn gywir Number of questions/sections correctly answered	
Y cwestiwn / adran sydd angen eu cywiro The question / section number needing to be amended	

Sylwadau ychwanegol / Additional comments

Cytunaf fod y gwaith / asesiad hwn wedi cael ei wneud mewn modd teg a phriodol.

I agree that this work / assessment was carried out in a fair and proper manner.

Enw'r Ymgeisydd Candidate's Name	Llofnod yr Ymgeisydd Candidate's Signature	Rhif yr Ymgeisydd Candidate's Number	Dyddiad Date
Enw'r Aseswr Assessor's Name	Llofnod yr Aseswr Assessor's Signature	Rhif yr Aseswr Assessor's Number	Dyddiad Date
Enw'r D.M. I.V. Name	Llofnod y D.M. I.V.Signature	Rhif y D.M. I.V.Number	Dyddiad Date