

Key personnel
This will include a project manager, site manager/foreman, workers and additional persons off-loading materials. All personnel on site must report the site manager. Before any works take place, a toolbox talk must be given from the arboricultural consultant to all workers on site to explain the importance of the trees and how to work around the trees.

Accidents and emergencies involving trees
Any accidents involving the trees on the site, any emergencies or any spill of liquids or chemicals on site MUST be reported to the lead arboricultural consultant by the site manager within two hours. Following discussion, the arboricultural consultant will produce a plan of action, which may involve non-routine site visits and follow-up visits to make the site safe. All accidents are to be reported on including any treatments such as soil removal, root pruning, de-compaction of soils. This report must be sent to the site manager, project manager and the LPA within five working days.

Tree Protection Fencing
Due to the nature of the development and garden area, it would not be appropriate to include standard tree protection measures. Therefore it is proposed to use chestnut fencing or plastic fencing to be attached to the ground by either scaffold poles or road pins, attach signs bearing the words TREE PROTECTION AREA - KEEP OUT

Ground protection boards
The ground protection will have ground protection boards placed in the area identified on the plan below and on current ground conditions, such as ground boards like those of Endura Mat or similar. To be installed as follows: A geotextile material to be laid directly on the ground, a base layer of woodchip to be spread evenly over the geotextile material to a minimal depth of 50mm to even out the ground and remove any bumps or dips. Once level then the ground boards can be placed on top and securely fastened to each other and the ground. These must remain in place throughout the build and inspected every 2 months by the arboricultural consultant

Siting of storage and welfare facilities

This is on hard standing close to the trees but, along with the fencing, it will give adequate protection. The storage area will also include an area for the mixing of materials, which must be contained within a spill containment tray of at least 1000mm x 1000mm x 120mm.

PROTECTION OF TREES:

General:

The Tree Protection Plan must be read in conjunction with the approved Arboricultural Method Statement. A copy of both must be retained in the site office and available for all people to view.

No equipment, machinery or structure shall be attached to or supported by a retained tree. These measures shall apply for the duration of the construction phase and until all equipment; machinery and surplus materials have been removed from the site.

Tree Protection Fencing:

No equipment, machinery or materials shall be brought onto the site for the purposes of the development until fencing has been erected in accordance with plans and particulars as referenced above which shall have been previously submitted to and approved by the Local Planning Authority in writing.

If that fencing is broken or removed during the course of carrying out the development it shall be immediately repaired or replaced to the satisfaction of the Local Planning Authority.

The fencing shall be maintained in position to the satisfaction of the Local Planning Authority until all equipment, machinery and surplus materials have been moved from the site.

Within any area fenced in accordance with this condition nothing shall be stored placed or disposed of above or below the ground, the ground level shall not be altered, no excavations shall be made, no mixing or use of other contamination materials or substances shall take place, nor shall any fires be lit without the prior written consent of the authority.

Tree Protection Fencing:

No equipment, machinery or materials shall be brought onto the site for the purposes of the development until fencing has been erected in accordance with plans and particulars as referenced above which shall have been previously submitted to and approved by the Local Planning Authority in writing.

- A.No fires to be lit on site within 10 metres of the nearest point of the canopy of any retained tree/hedgerow on or adjacent to the proposal site.
- B.No equipment, signage, fencing etc. shall be attached to or be supported by any retained tree on or adjacent to the application site,
- C.No temporary access within designated root protection areas without the prior written approval.
- D.No access within the designated Construction Exclusion Zone.
- E.No mixing of cement, dispensing of fuels or chemicals within 10 metres of any retained tree/hedgerow on or adjacent to the application site.
- F.No development or additional cables to be routed within the root protection areas of any retained tree/hedgerow on or adjacent to the application site without direct arboricultural supervision.
- G.No stripping of top soils, excavations or changing of levels to occur within the root protection areas of any retained tree/hedgerow on or adjacent to the site.
- H.No topsoil, building materials or other to be stored within the root protection areas of any retained tree/hedgerow on or adjacent to the site.
- I.No alterations or variations of the approved works or protection schemes shall be carried out without the full consultation of the Arboricultural Consultant.
- J. Any material movement close to trees must also take in to account weights and heights to ensure that tall or bulky items do not contact any branch or limb of retained trees.

If the fencing is broken or removed during the course of carrying out the development it shall be immediately repaired or replaced to the satisfaction of the Local Planning Authority.

The fencing shall be maintained in position to the satisfaction of the Local Planning Authority until all equipment, machinery and surplus materials have been moved from the site.

Within any area fenced in accordance with this condition nothing shall be stored placed or disposed of above or below the ground, the ground level shall not be altered, no excavations shall be made, no mixing or use of other contamination materials or substances shall take place, nor shall any fires be lit without the prior written consent of the authority.

Foundation works
In order to confirm the final foundation design, it is necessary to carry out site investigations. The trip pits must be carried out by hand and under the supervision of the site manager and the Arboricultural Consultant.

The design of the trial pits are to be no larger than 1000mm wide and 1500mm long and to a depth of 1000mm or to heavy clay (whichever is first). The pits must be carried out by hand digging and no mechanical vehicles are to be on site.

To mark out the areas as identified on the Tree Roots Investigation Plan. These should be drawn on the ground with a reference to each trail pit. Each trial pit is to be opened up one at a time and a cover is to be placed to the side of the pit for soil to be located. The top layer is to be removed by hand. For gravel this is to be raked back if possible to loaded in to a wheelbarrow. Grass is to be cut into manageable sizes and undercut by a spade about 25mm below the grass root layer. This is to be placed upside down and covered. Soil is to be placed on the cover to the side to ensure soil does not run off on to the grass area or the gravel.

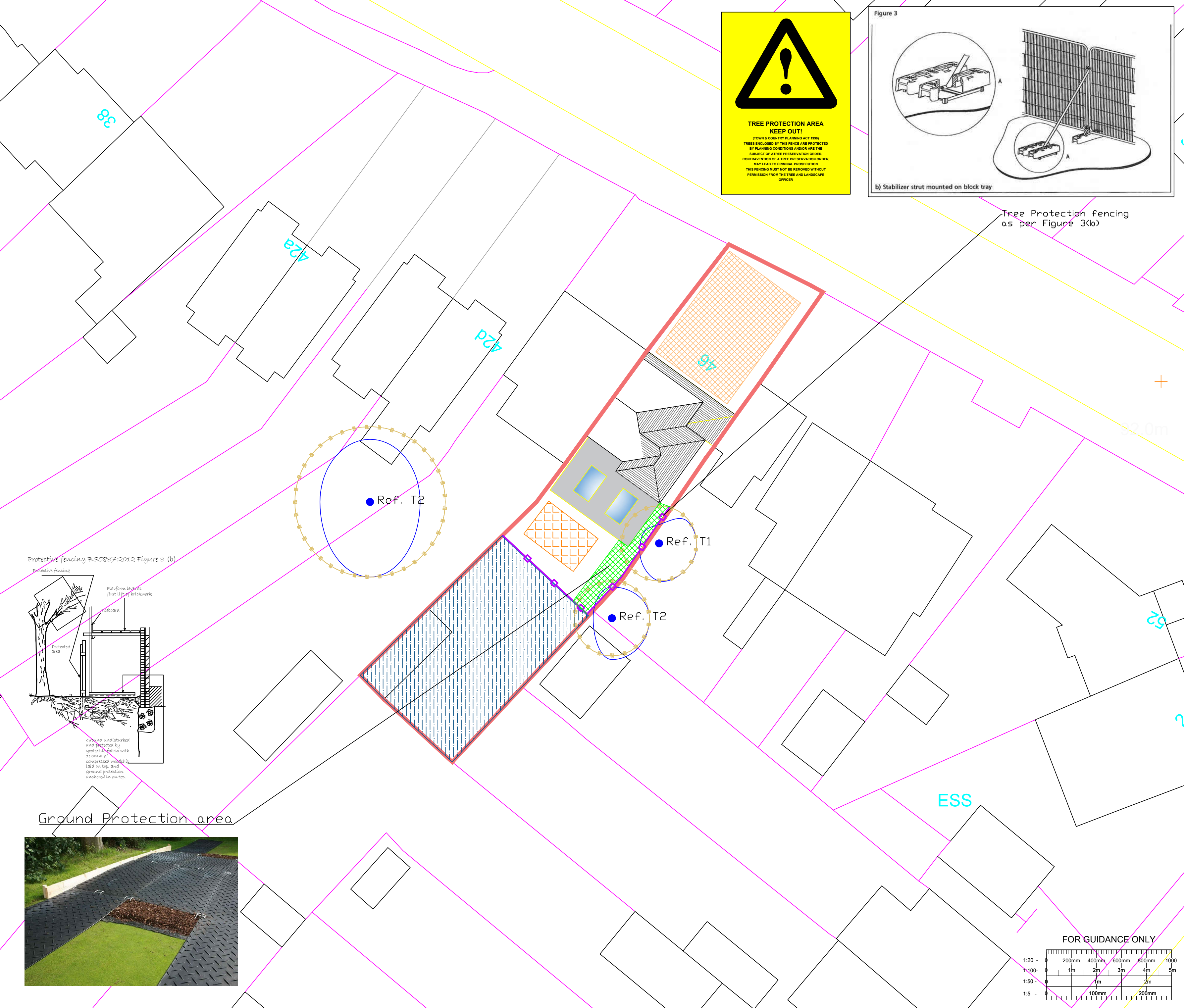
There are two methods to be taken to excavate:

AIR SPADE:
The air spade is to be used to clean out the soil around the tree roots. This should be done by starting at one end of the trench. The soil should be lifted and disturbed by the lance and air to a depth of about 300mm. Once this is disturbed then it can be lifted out of the trial pit by use of a spade or similar hand tools. The lance work should then proceed backwards to the other end of the trial pit. Once completed it should start again on the next level down. This should proceed to a depth of 1000mm or where heavy clay is discovered.

HAND DIGGING:
By use of a fork and spade, the soil is to be lightly lifted by use of the fork and moving from one end to the other to dislodge the soil. Once completed, the spade can be used to lift the loose soils. Once lifted then work again from the same location to lift the next layer of soil. Soil dislodging depth should be no more than 100mm at each time. This should proceed to a depth of 1000mm or where heavy clay is discovered.

GENERAL ADVICE:
Any roots within the trail area of less than 25mm can only be cut using secateurs in one clean motion. This should be carried out under the supervision of the Arboricultural Consultant. During the trail pits any exposed tree roots greater than 25mm must be wrapped in wet hessian material while the works carry on. Once the trail pit has been created and exposed roots photographed, measured and drawn on the plan then the pit can be closed off. This will be to remove any hessian wrapping and back fill the trail pits with soil. Every 200mm depth should be gently tampered back down. The top layer should then be placed over the top.

covered over with soil and the pit closed off. Where it is not possible to cover the tree roots in soil for any extended period (such as a tree root on the edge of a pit), then the roots. This must be for a limited time only and the pit must be closed by the end of the working day.



Undertake and complete construction works
Once the fencing has been installed and signed off by the arboriculturist, then the main development can commence. As no further works are within the Root Protection Areas, there will be no further requirements for onsite monitoring from the arboriculturist.

Remove tree protection fencing
Once all construction works have been completed and all materials and machinery have been removed from site, the arboricultural consultant must be informed. They will then invite the LPA Arboricultural Officer to meet on site to discuss the process and any final remedial works that may be required.

Sign off from the construction company and arboricultural consultant
A final meeting is required to formally sign off all completed works and to confirm that no further action is required. This will include a Visual Tree Inspection and report on any remedial actions (if necessary). Once this has been completed it will be submitted to the LPA Arboricultural Officer.

Monitoring of the development site
The development's tree protection fencing is to be monitored by the arboricultural consultant, who must be retained to record and report observations to the LPA Arboricultural Officer within five working days of the site visit. Prior to the commencement of any works on site, a pre-start meeting is to be held to discuss the protection methodology and Arboricultural Method Statement and to swap contact details. A toolbox talk with the key workers must also take place to ensure people on site are aware of trees and tree roots. Thereafter supervision and monitoring, visits will be undertaken for the duration of the works to ensure that tree protection measures are in place and are functioning as designed. A record of these visits must be kept. Any faults will be logged, and mitigation and amelioration advised and actioned. This will be duplicated and handed to the site agent, developer and LPA within five working days of the site visit. Regular contact will be maintained with the site manager to determine any forthcoming operations that may impact on the tree protection measures and whether any arboricultural supervision is required. The arboricultural consultant will be advised a minimum of 72 hours prior to the commencement of any works that require their supervision, and in any case will visit at no less than weekly intervals to monitor and supervise works.

A1

This drawing has been prepared in accordance with BS 5837:2012.

This drawing is intended to be printed and used in colour only, and for no purpose other than the consideration of trees in accordance with BS 5837.

BS5837:2012 Cascade chart for tree quality assessment			
Category A	Criteria (including subcategories where appropriate)	Identification on plan	
Category I	Category I		
Category II	Category II		
Category III	Category III		
Category IV	Category IV		
Category V	Category V		
Category VI	Category VI		
Category VII	Category VII		
Category VIII	Category VIII		
Category IX	Category IX		
Category X	Category X		
Category XI	Category XI		
Category XII	Category XII		
Category XIII	Category XIII		
Category XIV	Category XIV		
Category XV	Category XV		
Category XVI	Category XVI		
Category XVII	Category XVII		
Category XVIII	Category XVIII		
Category XIX	Category XIX		
Category XX	Category XX		
Category XXI	Category XXI		
Category XXII	Category XXII		
Category XXIII	Category XXIII		
Category XXIV	Category XXIV		
Category XXV	Category XXV		
Category XXVI	Category XXVI		
Category XXVII	Category XXVII		
Category XXVIII	Category XXVIII		
Category XXIX	Category XXIX		
Category XXX	Category XXX		

KEY

○ Root Protection Area (RPA)

○ Tree Stem

T1 Tree No.

Tree Protection Fencing

Storage Area

Contractor Parking

Ground Protection

Construction Exclusion Zone

Rev	Details	Date	Checked By
1			

Drawing Number

AEL-18788-TPP

APEx

Environmental Ltd

3 Lawrence Way, Lichfield, WS13 6RD

TEL: 0121 249 1235

e-mail: info@ael-treeconsultants.co.uk

web: www.ael-treeconsultants.co.uk

Client

Mr and Mrs Gallimore

Project

46 St Michaels Road, Tilehurst

Title

Tree Protection Plan

Scale

1:200

Date

19/06/2023

Drawn By

RJH

Checked By

Drawing Number

A

Revision

THIS DRAWING IS CONFIDENTIAL AND MUST NOT BE REPRODUCED WITHOUT THE CONSENT OF APEX ENVIRONMENTAL LTD

FOR GUIDANCE ONLY

1:20

200mm

400mm

600mm

800mm

1000mm

1200mm

1400mm

1600mm

1800mm

2000mm

2200mm

2400mm

2600mm

2800mm

3000mm

3200mm

3400mm

3600mm

3800mm

4000mm

4200mm

4400mm

4600mm

4800mm

5000mm

5200mm

5400mm

5600mm

5800mm

6000mm

6200mm

6400mm

6600mm

6800mm

7000mm

7200mm

7400mm

7600mm

7800mm

8000mm

8200mm

8400mm

8600mm

8800mm

9000mm

9200mm

9400mm

9600mm

9800mm

10000mm

10200mm

10400mm

10600mm

10800mm

11000mm

11200mm

11400mm

11600mm

11800mm

12000mm

12200mm

12400mm

12600mm

12800mm

13000mm

13200mm

13400mm

13600mm

13800mm

14000mm

14200mm

14400mm

14600mm

14800mm

15000mm

15200mm

15400mm

15600mm

15800mm

16000mm

16200mm

16400mm

16600mm

16800mm

17000mm

17200mm

17400mm

17600mm

17800mm

18000mm

18200mm

18400mm

18600mm

18800mm

19000mm

19200mm

19400mm

19600mm

19800mm

20000mm

20200mm

20400mm

20600mm

20800mm

21000mm

21200mm

21400mm

21600mm

21800mm

22000mm

22200mm

22400mm

22600mm

22800mm

23000mm

23200mm

23400mm

23600mm

23800mm

24000mm

24200mm

24400mm

24600mm

24800mm

25000mm

25200mm

25400mm

25600mm

25800mm

26000mm

26200mm

26400mm

26600mm

26800mm

27000mm

27200mm

27400mm

27600mm

27800mm

28000mm

28200mm

28400mm

28600mm

28800mm

29000mm

29200mm

29400mm

29600mm

29800mm

30000mm

30200mm

30400mm

30600mm

30800mm

31000mm

31200mm

31400mm

31600mm

31800mm

32000mm

32200mm

32400mm

32600mm

32800mm

33000mm

33200mm

33400mm

33600mm

33800mm

34000mm

34200mm

34400mm

34600mm

34800mm

35000mm

35200mm

35400mm

35600mm

35800mm

36000mm

36200mm

36400mm

36600mm

36800mm

37000mm

37200mm

37400mm

37600mm

37800mm

38000mm

38200mm

38400mm

38600mm

38800mm

39000mm

39200mm

39400mm

39600mm

39800mm

40000mm

40200mm

40400mm

40600mm

40800mm

41000mm

41200mm

41400mm

41600mm

41800mm

42000mm

42200mm

42400mm

42600mm

42800mm

43000mm

43200mm

43400mm

43600mm

43800mm

44000mm

44200mm

44400mm

44600mm

44800mm

45000mm

45200mm

45400mm

45600mm

45800mm

46000mm

46200mm

46400mm

46600mm

46800mm

47000mm

47200mm

47400mm

47600mm

47800mm

48000mm

48200mm

48400mm

48600mm

48800mm

49000mm

49200mm

49400mm

49600mm

49800mm

50000mm

50200mm

50400mm

50600mm

50800mm

51000mm

51200mm

51400mm

51600mm

51800mm

52000mm

52200mm

52400mm

52600mm

52800mm

53000mm

53200mm

53400mm

53600mm

53800mm

54000mm

54200mm

54400mm

54600mm

54800mm

55000mm

55200mm

55400mm

55600mm

55800mm

56000mm

56200mm

56400mm

56600mm

56800mm

57000mm

57200mm

57400mm

57600mm

57800mm

58000mm

58200mm

58400mm

58600mm

58800mm

59000mm

59200mm

59400mm

59600mm

59800mm

60000mm

60200mm

60400mm

60600mm

60800mm

61000mm

61200mm

61400mm

61600mm

61800mm

62000mm

62200mm

62400mm

62600mm

62800mm

63000mm

63200mm

63400mm

63600mm

63800mm

64000mm

64200mm

64400mm

64600mm

64800mm

65000mm

65200mm

65400mm

65600mm

65800mm

66000mm

66200mm

66400mm

66600mm

66800mm

67000mm

67200mm

67400mm

67600mm

67800mm

68000mm

68200mm

68400mm

68600mm

68800mm

69000mm

69200mm

69400mm

69600mm

69800mm

70000mm

70200mm

70400mm

70600mm

70800mm

71000mm

71200mm

71400mm

71600mm

71800mm

72000mm

72200mm

72400mm

72600mm

72800mm

73000mm

73200mm

73400mm

73600mm

73800mm

74000mm

74200mm

74400mm

74600mm

74800mm

75000mm

75200mm

75400mm

75600mm

75800mm

76000mm

76200mm

76400mm

76600mm

76800mm

77000mm

77200mm

77400mm

77600mm

77800mm

78000mm

78200mm

78400mm

78600mm

78800mm

79000mm

79200mm

79400mm

79600mm

79800mm

80000mm

80200mm

80400mm

80600mm

80800mm

81000mm

81200mm

81400mm

81600mm

81800mm

82000mm

82200mm

82400mm

82600mm

82800mm

83000mm

83200mm

83400mm

83600mm

83800mm

84000mm

84200mm

84400mm

84600mm

84800mm

85000mm

85200mm

85400mm

85600mm

85800mm

86000mm

86200mm

86400mm

86600mm

86800mm

87000mm

87200mm

87400mm

87600mm

87800mm

88000mm

88200mm

88400mm

88600mm

88800mm

89000mm

89200mm

89400mm

89600mm

89800mm

90000mm

90200mm

90400mm

90600mm

90800mm

91000mm

91200mm

91400mm

91600mm

91800mm

92000mm

92200mm

92400mm

92600mm

92800mm

93000mm

93200mm

93400mm

93600mm

93800mm

94000mm

94200mm

94400mm

94600mm

94800mm

95000mm

95200mm

95400mm

95600mm

95800mm

96000mm

96200mm

96400mm

96600mm

96800mm

97000mm

97200mm

97400mm

97600mm

97800mm

98000mm

98200mm

98400mm

98600mm

98800mm

99000mm

99200mm

99400mm

99600mm

99800mm

100000mm