

Designation: C 1433M - 08a

Standard Specification for Precast Reinforced Concrete Monolithic Box Sections for Culverts, Storm Drains, and Sewers (Metric)¹

This standard is issued under the fixed designation C 1433M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

- 1.1 This specification covers single-cell precast reinforced concrete box sections cast monolithically and intended to be used for the construction of culverts and for the conveyance of storm water industrial wastes and sewage.
- 1.2 This specification is the SI companion to Specification C 1433.

Note 1—This specification is primarily a manufacturing and purchasing specification. However, standard designs are included and the criteria used to develop these designs are given in Appendix X1. The successful performance of this product depends upon the proper selection of the box section, bedding, backfill, and care that the installation conforms to the construction specifications. The purchaser of the precast reinforced concrete box sections specified herein is cautioned that he must properly correlate the loading conditions and the field requirements with the box section specified and provide for inspection at the construction site.

2. Referenced Documents

2.1 ASTM Standards:²

A 82/A 82M Specification for Steel Wire, Plain, for Concrete Reinforcement

A 185/A 185M Specification for Steel Welded Wire Reinforcement, Plain, for Concrete

A 496/A 496M Specification for Steel Wire, Deformed, for Concrete Reinforcement

A 497/A 497M Specification for Steel Welded Wire Reinforcement, Deformed, for Concrete

A 615/A 615M Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement

C 31/C 31M Practice for Making and Curing Concrete Test Specimens in the Field

C 33 Specification for Concrete Aggregates

C 39/C 39M Test Method for Compressive Strength of Cylindrical Concrete Specimens

¹ This specification is under the jurisdiction of ASTM Committee C13 on Concrete Pipe and is the direct responsibility of Subcommittee C13.07 on Acceptance Specifications and Precast Concrete Box Sections.

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C 150 Specification for Portland Cement

C 309 Specification for Liquid Membrane-Forming Compounds for Curing Concrete

C 497M Test Methods for Concrete Pipe, Manhole Sections, or Tile [Metric]

C 595 Specification for Blended Hydraulic Cements

C 618 Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete

C 822 Terminology Relating to Concrete Pipe and Related Products

C 989 Specification for Ground Granulated Blast-Furnace Slag for Use in Concrete and Mortars

2.2 AASHTO Standards:³

Standard Specifications for Highway Bridges

3. Terminology

3.1 *Definitions*—For definitions of terms relating to concrete pipe, see Terminology C 822.

4. Types

4.1 Precast reinforced concrete box sections manufactured in accordance with this specification shall be one of two types identified in Tables 1 and 2, and shall be designated by type, span, rise, and design earth cover.

5. Basis of Acceptance

- 5.1 Acceptability of the box sections produced in accordance with Section 7 shall be determined by the results of the concrete compressive strength tests described in Section 10, by the material requirements described in Section 6, and by inspection of the finished box sections.
- 5.2 Box sections shall be considered ready for acceptance when they conform to the requirements of this specification.

6. Material

6.1 Reinforced Concrete—The reinforced concrete shall consist of cementitious materials, mineral aggregates and water, in which steel has been embedded in such a manner that the steel and concrete act together.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from American Association of State Highway and Transportation Officials (AASHTO), 444 N. Capitol St., NW, Suite 249, Washington, DC 20001.

6.2 Cementitious Materials:

- 6.2.1 *Cement*—Cement shall conform to the requirements for portland cement of Specification C 150 or shall be portland blast-furnace slag cement or portland-pozzolan cement conforming to the requirements of Specification C 595, except that the pozzolan constituent in the Type IP portland pozzolan cement shall be fly ash.
- 6.2.2 *Fly Ash*—Fly ash shall conform to the requirements of Specification C 618, Class F or Class C.
- 6.2.3 Ground Granulated Blast-Furnace Slag (GGBFS)—GGBFS shall conform to the requirements of Grade 100 or 120 of Specification C 989.
- 6.2.4 Allowable Combinations of Cementitious Materials— The combination of cementitious materials used in concrete shall be one of the following:
 - 6.2.4.1 Portland cement only,
 - 6.2.4.2 Portland blast furnace slag cement only,
 - 6.2.4.3 Slag modified portland cement only,
 - 6.2.4.4 Portland pozzolan cement only,
 - 6.2.4.5 A combination of portland cement and fly ash.
- 6.2.4.6 A combination of portland cement and ground granulated blast-furnace slag,
- 6.2.4.7 A combination of portland cement, ground granulated blast-furnace slag (not to exceed 25 % of the total cementitious weight), and fly ash (not to exceed 25 % of the total cementitious weight).
- 6.3 Aggregates—Aggregates shall conform to Specification C 33, except that the requirements for gradation shall not apply.
- 6.4 Admixtures and Blends—Admixtures and blends shall be allowed to be used with the approval of the purchaser.
- 6.5 Steel Reinforcement—Reinforcement shall consist of welded wire reinforcement conforming to Specifications A 185 or A 497. Circumferential reinforcement areas in Tables 1 and 2 are based solely on the use of welded wire reinforcement, refer to 11.6 if alternate steel designs utilizing steel bars, Grade 60, in conjunction with or in lieu of welded wire reinforcement are to be submitted for the owner's approval. Longitudinal distribution reinforcement shall be allowed to consist of

welded wire reinforcement or deformed billet-steel bars conforming to Specification A 615/A 615M, Grade 60.

7. Design

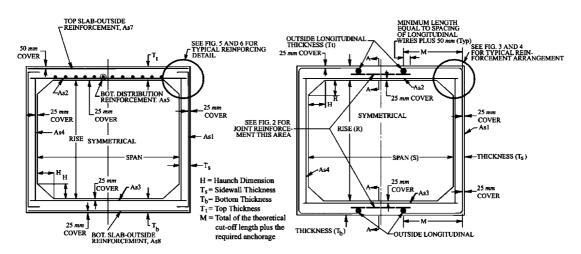
7.1 Design Tables—The box section dimensions, compressive strength of the concrete, and reinforcement details shall be as prescribed in Table 1 or Table 2 and Figs. 1-4, subject to the provisions of Section 11. Table 1 sections are designed for combined earth dead load and AASHTO HS20 live load conditions. Table 2 sections are designed for combined earth dead load and interstate live load conditions when the interstate live loading exceeds the HS20 live loading. Criteria used to develop Tables 1 and 2 are given in Appendix X1.

NOTE 2—The tabular designs in this specification were prepared according to AASHTO Standard Specifications for Highway Bridges, 1997 Edition.

7.2 Modified and Special Designs—The manufacturer shall request approval by the purchaser of modified designs which differ from the designs in Section 7.1, or special designs for sizes and loads other than those shown in Tables 1 and 2. When spans are required that exceed those prescribed in Table 1 or Table 2, the design shall be based on the criteria given in Appendix X1. In addition, the span shall be designed to have adequate stiffness to limit deflection as given in Section 8.9 of AASHTO Standard Specification for Highway Bridges (latest edition).

Note 3—Construction procedures, such as heavy equipment movement or stockpiling of material over or adjacent to a box structure, can induce higher loads than those used for the structure's final design. These construction and surcharge loads are approved as long as the final steel areas in the box are larger than those the box will experience in the final installation condition. The design engineer should take into consideration the potential for higher loads induced by construction procedures in determining the final design of the box structure.

7.3 Placement of Reinforcement—The cover of concrete over the circumferential reinforcement shall be 25 mm, subject to the provisions of Section 11. The inside circumferential reinforcement shall extend into the tongue portion of the joint and the outside circumferential reinforcement shall extend into



Fill Height Less than 600 mm

Fill Height 600 mm and Greater

FIG. 1 Typical Box Sections

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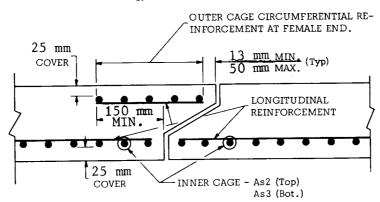
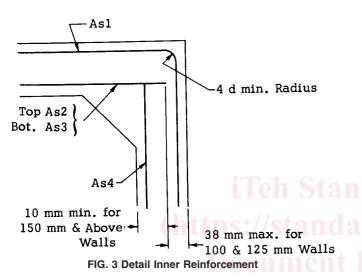
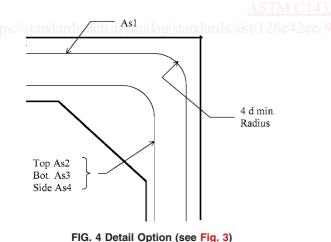


FIG. 2 Section A-A Top and Bottom Slab Joint Reinforcement





the groove portion of the joint. The clear distance of the end circumferential wires shall be not less than 13 mm nor more than 50 mm from the ends of the box section. Reinforcement shall be assembled utilizing any combination of single or multiple layers of welded-wire reinforcement. Multiple layers shall not be separated by more than the thickness of one longitudinal wire plus 6 mm. The multiple layers shall be fastened together to form a single cage. All other specification

requirements such as laps, welds, and tolerances of placement in the wall of the box section shall apply to this method of fabricating a reinforcement cage. A common reinforcement unit may be utilized for both A_{s2} (or A_{s3}) and A_{s4}, and also for both A_{s7} (or A_{s8}) and A_{s1}, with the largest area requirement governing, bending the reinforcement at the corners and waiving the extension requirements of Fig. 3 (see Fig. 5). When a single cage of multiple circumferential steel areas is used for A_{s2} (or A_{s3}) and A_{s4} reinforcement, the slab or wall requiring the larger steel area shall have this additional circumferential steel extending for the full length of the slab or wall. The welded-wire reinforcement shall be composed of circumferential and longitudinal wires meeting the spacing requirements of 7.4 and shall contain sufficient longitudinal wires extending through the box section to maintain the shape and position of reinforcement. Longitudinal distribution reinforcement may be welded-wire reinforcement or deformed billet-steel bars and shall meet the spacing requirements of 7.4. The ends of the longitudinal distribution reinforcement shall not be more than 2 in. from the ends of the box section. The exposure of the ends of longitudinals, stirrups, and spacers used to position the reinforcement shall not be a cause for rejection.

7.4 Laps, Welds, and Spacing—Splices in the circumferential reinforcement shall be made by lapping. The overlap

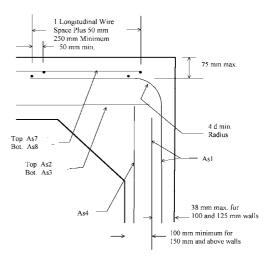


FIG. 5 Detailed Reinforcement Arrangement

measured between the outermost longitudinal wires of each reinforcement sheet shall not be less than the spacing of the longitudinal wires plus 50 mm but not less than 250 mm. If A_{s1} is extended to the middle of either slab and connected, welded splices are not prohibited in the connection. When used, A_{s7} and A_{s8} shall be lapped with A_{s1} as shown in Figs. 5 and 6 (see also Fig. 7 and Fig. 8). If welds are made to circumferential reinforcement, they shall be made only to selected circumferential wires that are not less than 450 mm apart along the longitudinal axis of the box section. Also, when spacers are welded to circumferential wires, they shall be welded only to these selected circumferential wires. There shall be no welding to other circumferential wires, except it is not prohibited for A to be lapped and welded at any location or connected by welding at the corners to A_{s2} and A_{s3} . No welds shall be made to A_{s2} or A_{s3} circumferential wires in the middle third of the span (see Fig. 9 for welding restrictions). When distribution reinforcement is to be fastened to a cage by welding, it shall be welded only to longitudinal wires and only near the ends of the box section. The spacing center to center of the circumferential wires shall not be less than 50 mm nor more than 100 mm. The spacing center to center of the longitudinal wires shall not be more than 200 mm.

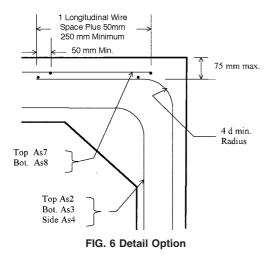
8. Joints

8.1 The precast reinforced concrete box sections shall be produced with tongue and groove ends. The ends shall be of such design and the ends of the box sections so formed that the sections can be laid together to make a continuous line of box sections compatible with the permissible variations given in Section 11.

8.2 Outer cage circumferential reinforcement as shown in Figs. 1 and 2 shall be placed in the top and bottom slabs at the groove portion of the joint when $A_{\rm s1}$ is not continuous over the span. The minimum area of such reinforcement in square millimeters per linear meter of box section length shall be the same as the areas specified for $A_{\rm s4}$ in Tables 1 and 2.

9. Manufacture

9.1 *Mixture*—The aggregates shall be sized, graded, proportioned, and mixed with such proportions of cementitious materials and water as will produce a homogeneous concrete



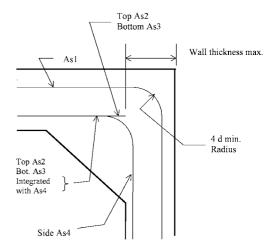


FIG. 7 Alternate Detail

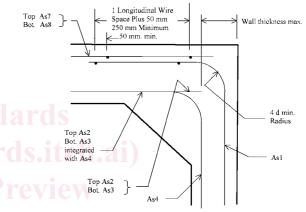


FIG. 8 Alternate Detail

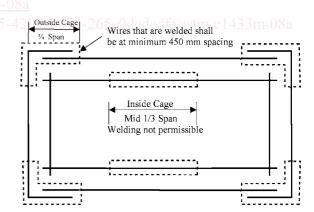


FIG. 9 Critical Zones of High Stress Where Welding is Restricted

mixture of such quality that the pipe will conform to the test and design requirements of this specification. All concrete shall have a water-cementitious materials ratio not exceeding 0.53 by weight. Cementitious materials shall be as specified in 6.2 and shall be added to the mix in a proportion not less than 280 kg/m³ unless mix designs with a lower cementitious materials content demonstrate that the quality and performance of the pipe meet the requirements of this specification.

- 9.2 Curing—The box sections shall be cured for a sufficient length of time so that the concrete will develop the specified compressive strength in 28 days or less. Any one of the following methods of curing or combinations thereof shall be allowed to be used:
- 9.2.1 *Steam Curing*—The box sections shall be allowed to be low pressure, steam-cured by a system that will maintain a moist atmosphere.
- 9.2.2 *Water Curing*—The box sections shall be allowed to be water-cured by any method that will keep the sections moist.
- 9.2.3 *Membrane Curing*—A sealing membrane conforming to the requirements of Specification C 309 may be applied and shall be left intact until the required concrete compressive strength is attained. The concrete temperature at the time of application shall be within 6°C of the atmospheric temperature. All surfaces shall be kept moist prior to the application of the compounds and shall be damp when the compound is applied.
- 9.3 Forms—The forms used in manufacture shall be sufficiently rigid and accurate to maintain the box section dimensions within the permissible variations given in Section 11. All casting surfaces shall be of smooth nonporous material.
- 9.4 *Handling*—Handling devices or holes shall be permitted in each box section for the purpose of handling and laying.

10. Physical Requirements

- 10.1 Type of Test Specimen—Compression tests for determining concrete compressive strength shall be allowed to be made on either standard rodded concrete cylinders or concrete cylinders compacted and cured in like manner as the box sections, or on cores drilled from the box section.
 - 10.2 Compression Testing of Cylinders:
- 10.2.1 Cylinders shall be obtained and tested for compressive strength in accordance with the provisions of Practice C 31/C 31M and Test Method C 39, except that the cylinders may be prepared by methods comparable to those used to consolidate and cure the concrete in the actual box section manufactured. Cylindrical specimens of sizes other than 150 by 300 mm may be used provided all other requirements of Practice C 31/C 31M are met. If the concrete is of a consistency too stiff for compaction by rodding or internal vibration, the alternate method described in Section II of Test Methods C 497M may be used. Cylinders shall be exposed to the same curing conditions as the manufactured box sections and shall remain with the sections until tested.
- 10.2.2 Prepare not less than three test cylinders from each concrete mix used within a group (one day's production) of box sections.
 - 10.2.3 Acceptability on the Basis of Cylinder Test Results:
- 10.2.3.1 When the average compressive strength of all cylinders tested is equal to or greater than the design concrete strength, not more than $10\,\%$ of the cylinders tested have a compressive strength less than the design concrete strength, and no cylinder tested has a compressive strength less than $80\,\%$ of the design concrete strength, the lot shall be accepted.
- 10.2.3.2 When the compressive strength of the cylinders tested does not conform to the acceptance criteria stated in 10.2.3.1, the acceptability of the lot shall be determined in accordance with the provisions of 10.3.
 - 10.3 Compression Testing of Cores:

- 10.3.1 Cores shall be obtained and tested for compressive strength in accordance with the provisions of Test Methods C 497M.
- 10.3.2 Three cores shall be cut from a section selected at random from each group of 15 box sections or fraction thereof of a single size from each continuous production run.
 - 10.3.3 Acceptability by Core Tests:
- 10.3.3.1 The compressive strength of the concrete in each group of box sections defined in 10.1 for each group of box sections is acceptable when concrete compressive strength, defined as the average of three cores taken at random from the subject group, is equal to or greater than 85 % of the required strength of the concrete with no one core less than 75 % of the required strength.
- 10.3.3.2 If the compressive strength of the three cores does not meet the requirements of 10.3.3.1, the sections from which the cores were taken shall be rejected. Two box sections from the remainder of the group shall be selected at random and one core shall be taken from each. If both cores have a strength equal to or greater than 85 % of the required strength of the concrete, the remainder of the group is acceptable. If the compressive strength of either of the two cores tested is less than 85 % of the required strength oft he concrete, the remainder of the group of box section shall be rejected or, at the option of the manufacturer, each box section of the entire group shall be cored and accepted individually, and any of these box sections that have cores with less than 85 % of the required strength of the concrete shall be rejected.
- 10.4 Plugging Core Holes—The core holes shall be plugged and sealed by the manufacturer in a manner such that the box section will meet all of the test requirements of this specification. Box sections so sealed shall be considered as satisfactory for use
- 10.5 *Test Equipment*—Every manufacturer furnishing box sections under this specification shall furnish all facilities and personnel necessary to carry out the tests required.

11. Permissible Variations

- 11.1 Internal Dimensions—The internal dimension shall not vary more than 1 % from the design dimensions. The haunch dimensions shall not vary more than 6 mm from the design dimensions.
- 11.2 Slab and Wall Thickness—The slab and wall thickness shall not be less than that shown in the design by more than 5 % or 5 mm, whichever is greater. A thickness more than that required in the design shall not be a cause for rejection.
- 11.3 Length of Opposite Surfaces—Variations in laying lengths of two opposite surfaces of the box section shall not be more than 10 mm/m of internal span, with a maximum of 16 mm for all sizes through 2100 mm internal span, and a maximum of 19 mm for internal spans greater than 2100 mm, except where beveled ends for laying of curves are specified by the purchaser.
- 11.4 Length of Section—The underrun in length of a section shall not be more than 10 mm/m of length with a maximum of 13 mm in any box section.
- 11.5 Position of Reinforcement—The maximum variation in the position of the reinforcement for 125 mm or less slab and wall thickness shall be \pm 10 mm, and for greater than 125 mm

slab and wall thickness shall be \pm 13 mm. In no case, however, shall the cover over the reinforcement be less than 16 mm, as measured to the internal surface or the external surface except the cover over the reinforcement for the external surface of the top slab for boxes with under 6 m of cover shall not be less than 40 mm. The preceding minimum cover limitation does not apply at the mating surfaces of the joint.

11.6 Area of Reinforcement—The areas of steel reinforcement shall be the design steel areas as shown in Tables 1 and 2. Steel areas greater than those required shall not be cause for rejection. The permissible variation in diameter of any wire in finished reinforcement shall conform to the tolerances prescribed for the wire before fabrication by either Specification A 82 or A 496 as applicable. If steel bars (Grade 60) are used in lieu of welded wire reinforcement, the steel areas presented in Tables 1 and 2 shall be increased to account for the difference in steel yield strength, steel spacing, concrete cover, and crack control between the welded wire reinforcement and steel bars.

11.7 Haunch Dimensions—The vertical and horizontal dimensions shall be equal to the side wall thickness. If haunches with other dimensions are used, a special reinforcement design for the actual dimensions shall be completed. In lieu of performing a special design, for the specific case where the actual haunch dimensions are larger than the standard dimensions and vertical and horizontal haunch dimensions are equal, the A_{s1} steel area shall be increased 1 % for every 5 % increase in the haunch dimension over that specified in Table 1 or Table 2 and A_{s2} and A_{s3} shall be reduced by an equal percentage.

12. Repairs

12.1 Box sections shall be repaired, if necessary, because of imperfections in manufacture or handling damage and will be acceptable if, in the opinion of the purchaser, the repaired box section conforms to the requirements of this specification.

13. Inspection

13.1 The quality of materials, the process of manufacture, and the finished box sections shall be subject to inspection by the purchaser.

14. Rejection

- 14.1 Box sections shall be subject to rejection on account of failure to conform to any of the specification requirements. Individual box sections shall be allowed to be rejected because of any of the following:
- 14.1.1 Fractures or cracks passing through the wall, except for a single end crack that does not exceed the depth of the joint,
- 14.1.2 Defects that indicate mixing and molding not in compliance with 9.1, or honeycombed or open texture that would adversely affect the function of the box sections,
- 14.1.3 Abnormalities in the ends of the box sections to the walls and center line of the box section, within the limits of variations given in Section 11, except where beveled ends are specified, or
- 14.1.4 Damaged ends, where such damage would prevent making a satisfactory joint.

15. Marking

- 15.1 The following information shall be legibly marked on each box section by indentation, waterproof paint, or other approved means:
- 15.1.1 Box section span, rise, table number, maximum and minimum design earth cover, and specification designation,
 - 15.1.2 Date of manufacture, and
 - 15.1.3 Name or trademark of the manufacturer.
- 15.2 Each section shall be clearly marked by indentation on either the inner or outer surface during the process of manufacture so that the location of the top will be evident immediately after the forms are stripped. In addition, the word "top" shall be lettered with waterproof paint on the inside top surface.



TABLE 1 Design Requirements for Precast Concrete Box Sections Under Earth Dead and HS20 Live Load Conditions

Note 1—Design earth covers and reinforcement areas are based on the weight of a column of earth over the width of the box section as defined in Appendix X1.

Note 2—Concrete design strength 35 MPa.

Note 3—The design earth cover indicated is the height of fill above the top of the box section. Design requirements are based on the material and soil properties, loading data, and typical section as included in Appendix X1. For alternative or special designs, see 7.2.

Note 4—Design steel area in millimetres per linear metre of box section at those locations which are indicated on the typical section included in Fig.

Note 5—The top section designation, for example, 900 by 600 by 100 mm indicates (interior horizontal span in millimetres) by (interior vertical rise in millimetres) by (wall and slab thickness in millimetres).

Note 6—In accordance with the acceptance criteria in 7.2, the manufacturer may interpolate the steel area requirements for fill heights between noted increments or may submit independent designs.

0	D:	т.	Dett	0: 1	11=- 1	900 by 600 k	-		Circumfere	ntial Rain	forcemen	t Areas m	m ² /m	
Span mm	Rise mm	Top mm	Bottom mm	Side mm	Haunch mm	Design Earth Cover m	A _{s1}	A _{s2}					A _{s8}	"M," mn
									A _{s3}	A _{s4}	A _{s5}	A _{s7}		IVI, IIII
900	600	175	150	100	100	0-0.6	360	810	450	220	410	360	300	
900	600	100	100	100	100	0.6-0.9	280	450	450	220				790
900	600	100	100	100	100	0.9-1.5	220	220	220	220				790
900	600	100	100	100	100	3	220	220	220	220				790
900	600	100	100	100	100	4.6	220	300	300	220				790
900	600	100	100	100	100	6.1	240	390	410	220				790
900	600	100	100	100	100	7.6	300	490	490	220				790
900	600	100	100	100	100	9.1	360	580	580	220				790
900	600	100	100	100	100	10.7	430	660	660	220				790
					- iT	900 by 900 b	y 100 mr	$\boldsymbol{r} \cdot \boldsymbol{r} \cdot \boldsymbol{c}$						
Span	Rise	Top	Bottom	Side	Haunch	Design Earth Cover	iua.		Circumfere	ntial Rein	forcemen	t Areas, m	nm²/m	
mm	mm	mm	mm	mm	mm	m	A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M," mr
900	900	175	150	100	100	0-0.6	360	850	490	220	430	360	300	
900	900	100	100	100	100	0.6-0.9	220	530	530	220				790
900	900	100	100	100	100	0.9-1.5	220	220	240	220				790
900	900	100	100	100	100	3	220	240	240	220				790
900	900	100	100	100	100	4.6	220	320	340	220				790
900	900	100	100	100	100	6.1	220	430	430	220				790
900	900	100	100	100	100	7.6	220	510	530	220				790
900	900	100	100	100	100	AST 9.1 C 1433	260	620	620	220				790
900	900	100	100	100	100	10.7	300	700	720	220				790
						2121/17/07/27/07/27								
						1200 by 600	by 125 m		<u> </u>				2,	
	Rise	Тор	Bottom	Side	Haunch	Design Earth Cover			Circumfere	ntial Rein	forcemen	t Areas, m	nm²/m	
Span mm	Rise mm	Top mm	Bottom mm	Side mm	Haunch mm	<u>.</u>	by 125 m		Circumfere A _{s3}	ntial Rein A _{s4}	forcemen	t Areas, m	nm²/m A _{s8}	"M," mr
mm						Design Earth Cover		("M," mr
mm 1200	mm	mm	mm	mm	mm	Design Earth Cover m	A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M," mr
mm 1200 1200	mm 600	mm 190	mm 150	mm 125	mm 125	Design Earth Cover m	A _{s1} 390	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	
mm 1200 1200 1200	600 600	190 125	150 125	mm 125 125	mm 125 125	Design Earth Cover m 0-0.6 0.6-0.9	A _{s1} 390 450	A _{s2} 850 490	A _{s3} 430 430	A _{s4} 260 260	A _{s5}	A _{s7}	A _{s8}	970
1200 1200 1200 1200	600 600 600	190 125 125 125	150 125 125 125	mm 125 125 125 125	125 125 125 125 125	Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3	A _{s1} 390 450 260 260	A _{s2} 850 490 260 260	A _{s3} 430 430 260 280	A _{s4} 260 260 260 260	A _{s5}	A _{s7}	A _{s8}	970 970 970
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1200 1200 1200 1200 1200 1200 1200	600 600 600 600 600 600	190 125 125 125 125 125 125	mm 150 125 125 125 125 125 125	mm 125 125 125 125 125 125 125	125 125 125 125 125 125 125	Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1	A _{s1} 390 450 260 260 300 410	A _{s2} 850 490 260 260 360 490	A _{s3} 430 430 260 280 390 490	A _{s4} 260 260 260 260 260 260 260	A _{s5}	A _{s7}	A _{s8}	970 970 970 970 970
1200 1200 1200 1200 1200 1200 1200 1200	600 600 600 600 600 600 600	190 125 125 125 125 125 125 125	150 125 125 125 125 125 125 125	125 125 125 125 125 125 125 125	125 125 125 125 125 125 125 125	Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6	A _{s1} 390 450 260 260 300 410 490	A _{s2} 850 490 260 260 360 490 600	A _{s3} 430 430 260 280 390 490 600	A _{s4} 260 260 260 260 260 260 260 260 260	A _{s5}	A _{s7}	A _{s8}	970 970 970 970 970 970
1200 1200 1200 1200 1200 1200 1200 1200	600 600 600 600 600 600	190 125 125 125 125 125 125	mm 150 125 125 125 125 125 125	mm 125 125 125 125 125 125 125	125 125 125 125 125 125 125	Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1	A _{s1} 390 450 260 260 300 410	A _{s2} 850 490 260 260 360 490	A _{s3} 430 430 260 280 390 490	A _{s4} 260 260 260 260 260 260 260	A _{s5}	A _{s7}	A _{s8}	970 970 970 970 970
mm 1200 1200 1200 1200 1200 1200 1200 12	600 600 600 600 600 600 600 600	190 125 125 125 125 125 125 125 125	mm 150 125 125 125 125 125 125 125 125 125	125 125 125 125 125 125 125 125 125	mm 125 125 125 125 125 125 125 125 125	Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1	A _{s1} 390 450 260 260 300 410 490 600 700	850 490 260 260 360 490 600 700 810	A _{s3} 430 430 260 280 390 490 600 700	A _{s4} 260 260 260 260 260 260 260 260 260 260	A _{s5}	A _{s7}	A _{s8}	970 970 970 970 970 970 970
Span mm 1200 1200 1200 1200 1200 1200 1200 1	600 600 600 600 600 600 600 600	190 125 125 125 125 125 125 125 125	mm 150 125 125 125 125 125 125 125 125 125	125 125 125 125 125 125 125 125 125	mm 125 125 125 125 125 125 125 125 125	Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7	A _{s1} 390 450 260 260 300 410 490 600 700	A _{s2} 850 490 260 260 360 490 600 700 810	A _{s3} 430 430 260 280 390 490 600 700	A _{s4} 260 260 260 260 260 260 260 260 260 260	A _{s5} 430	A _{s7} 390	A _{s8} 300	970 970 970 970 970 970
1200 1200 1200 1200 1200 1200 1200 1200	600 600 600 600 600 600 600 600	190 125 125 125 125 125 125 125 125 125 125	mm 150 125 125 125 125 125 125 125 125 125 125	mm 125 125 125 125 125 125 125 125 125 12	mm 125 125 125 125 125 125 125 125 125 12	Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 1200 by 900	A _{s1} 390 450 260 260 300 410 490 600 700	A _{s2} 850 490 260 260 360 490 600 700 810	A _{s3} 430 430 260 280 390 490 600 700 830	A _{s4} 260 260 260 260 260 260 260 260 260 260	A _{s5} 430	A _{s7} 390	A _{s8} 300	970 970 970 970 970 970 970
mm 1200 1200 1200 1200 1200 1200 1200 12	mm 600 600 600 600 600 600 600 600 600	mm 190 125 125 125 125 125 125 125 125 125 125	mm 150 125 125 125 125 125 125 125 125 125 125	mm 125 125 125 125 125 125 125 125 125 12	mm 125 125 125 125 125 125 125 125 125 12	Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 1200 by 900 Design Earth Cover	A _{s1} 390 450 260 260 300 410 490 600 700	A _{s2} 850 490 260 260 360 490 600 700 810	A _{s3} 430 430 260 280 390 490 600 700 830	A _{s4} 260 260 260 260 260 260 260 260 260 260	A _{s5} 430	A _{s7} 390	A _{s8} 300	970 970 970 970 970 970 970 970
1200 1200 1200 1200 1200 1200 1200 1200	mm 600 600 600 600 600 600 600 600 600	mm 190 125 125 125 125 125 125 125 125 Top	mm 150 125 125 125 125 125 125 125 125 125 125	mm 125 125 125 125 125 125 125 125 125 12	mm 125 125 125 125 125 125 125 125 125 12	Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 1200 by 900 Design Earth Cover m	A _{s1} 390 450 260 260 300 410 490 600 700 by 125 m	850 490 260 260 360 490 600 700 810	A _{s3} 430 430 430 260 280 390 490 600 700 830 Circumfere	A _{s4} 260 260 260 260 260 260 260 260 260 260	A _{s5} 430	A _{s7} 390	A _{s8} 300	970 970 970 970 970 970 970 970
1200 1200 1200 1200 1200 1200 1200 1200	mm 600 600 600 600 600 600 600 600 Flise mm	mm 190 125 125 125 125 125 125 125 125 127 129 190	mm 150 125 125 125 125 125 125 125 125 125 125	mm 125 125 125 125 125 125 125 125 125 12	mm 125 125 125 125 125 125 125 125 125 12	Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 1200 by 900 Design Earth Cover m 0-0.6	A _{s1} 390 450 260 260 300 410 490 600 700 by 125 m A _{s1}	A _{s2} 850 490 260 260 360 490 600 700 810 mm	A _{s3} 430 430 430 260 280 390 490 600 700 830 Circumfere A _{s3} 490	A _{s4} 260 260 260 260 260 260 260 260 260 260	A _{s5} 430	A _{s7} 390	A _{s8} 300	970 970 970 970 970 970 970
1200 1200 1200 1200 1200 1200 1200 1200	mm 600 600 600 600 600 600 600 600 Rise mm 900 900	mm 190 125 125 125 125 125 125 125 125 125 125	mm 150 125 125 125 125 125 125 125 125 125 125	mm 125 125 125 125 125 125 125 125 125 12	mm 125 125 125 125 125 125 125 125 125 12	Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 1200 by 900 Design Earth Cover m 0-0.6 0.6-0.9	A _{s1} 390 450 260 260 300 410 490 600 700 by 125 m A _{s1}	A _{s2} 850 490 260 260 360 490 600 700 810 Im	A _{s3} 430 430 260 280 390 490 600 700 830 Circumfere A _{s3} 490 530	A ₈₄ 260 260 260 260 260 260 260 260 260 260	A _{s5} 430	A _{s7} 390	A _{s8} 300	970 970 970 970 970 970 970
1200 1200 1200 1200 1200 1200 1200 1200	mm 600 600 600 600 600 600 600 600 800 600 900 900 900	mm 190 125 125 125 125 125 125 125 125 125 125	mm 150 125 125 125 125 125 125 125 125 125 125	mm 125 125 125 125 125 125 125 125 125 12	mm 125 125 125 125 125 125 125 125 125 12	Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 1200 by 900 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3	A _{s1} 390 450 260 260 300 410 490 600 700 by 125 m A _{s1} 390 340 260 260	A _{s2} 850 490 260 260 360 490 600 700 810 Im A _{s2}	A _{s3} 430 430 260 280 390 490 600 700 830 Circumfere A _{s3} 490 530 280 320	A ₈₄ 260 260 260 260 260 260 260 260 260 260	A _{s5} 430	A _{s7} 390	A _{s8} 300	970 970 970 970 970 970 970 970 "M," m
1200 1200 1200 1200 1200 1200 1200 1200	mm 600 600 600 600 600 600 600 600 Rise mm 900 900 900	mm 190 125 125 125 125 125 125 125 125 125 125	mm 150 125 125 125 125 125 125 125 125 125 125	mm 125 125 125 125 125 125 125 125 125 12	mm 125 125 125 125 125 125 125 125 125 12	Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 1200 by 900 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6	A _{s1} 390 450 260 260 300 410 490 600 700 by 125 m A _{s1} 390 340 260 260 260	A _{s2} 850 490 260 260 360 490 600 700 810 Im A _{s2} 960 600 260 300 430	A _{s3} 430 430 260 280 390 490 600 700 830 Circumfere A _{s3} 490 530 280 320 430	A _{s4} 260 260 260 260 260 260 260 260 260 26	A _{s5} 430	A _{s7} 390	A _{s8} 300	970 970 970 970 970 970 970 970 970 970
mm 11200 1200 1200 1200 1200 1200 1200 1	mm 600 600 600 600 600 600 600 600 Rise mm 900 900 900 900	mm 190 125 125 125 125 125 125 125 125 125 125	mm 150 125 125 125 125 125 125 125 125 125 125	mm 125 125 125 125 125 125 125 125 125 12	mm 125 125 125 125 125 125 125 125 125 12	Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 1200 by 900 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1	A _{s1} 390 450 260 300 410 490 600 700 by 125 m A _{s1} 390 340 260 260 260 300	A _{s2} 850 490 260 260 360 490 600 700 810 M A _{s2}	A _{s3} 430 430 260 280 390 490 600 700 830 Circumferer A _{s3} 490 530 280 320 430 550	A _{s4} 260 260 260 260 260 260 260 260 260 260	A _{s5} 430	A _{s7} 390	A _{s8} 300	970 970 970 970 970 970 970 970 970 970
mm 1200 1200 1200 1200 1200 1200 1200 12	800 600 600 600 600 600 600 600 600 900 9	mm 190 125 125 125 125 125 125 125 125 125 125	mm 150 125 125 125 125 125 125 125 125 125 125	mm 125 125 125 125 125 125 125 125 125 12	mm 125 125 125 125 125 125 125 125 125 12	Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 1200 by 900 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 6.1 7.6	A _{s1} 390 450 260 260 300 410 490 600 700 by 125 m A _{s1} 390 340 260 260 260 300 360	A _{s2} 850 490 260 260 360 490 600 700 810 A _{s2} 960 600 260 300 430 550 680	A _{s3} 430 430 430 260 280 390 490 600 700 830 Circumfere A _{s3} 490 530 280 320 430 550 680	A _{s4} 260 260 260 260 260 260 260 260 260 260	A _{s5} 430	A _{s7} 390	A _{s8} 300	970 970 970 970 970 970 970 970 970 970
mm 1200 1200 1200 1200 1200 1200 1200 12	mm 600 600 600 600 600 600 600 600 Rise mm 900 900 900 900	mm 190 125 125 125 125 125 125 125 125 125 125	mm 150 125 125 125 125 125 125 125 125 125 125	mm 125 125 125 125 125 125 125 125 125 12	mm 125 125 125 125 125 125 125 125 125 12	Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 1200 by 900 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1	A _{s1} 390 450 260 300 410 490 600 700 by 125 m A _{s1} 390 340 260 260 260 300	A _{s2} 850 490 260 260 360 490 600 700 810 M A _{s2}	A _{s3} 430 430 260 280 390 490 600 700 830 Circumferer A _{s3} 490 530 280 320 430 550	A _{s4} 260 260 260 260 260 260 260 260 260 260	A _{s5} 430	A _{s7} 390	A _{s8} 300	970 970 970 970 970 970 970 970 970 970



TABLE 1 Continued

						TABLE 1	Continu	ied						
						1200 by 1200	by 125 ı	mm						
Span	Rise	Тор	Bottom	Side	Haunch	Design Earth Cover			Circumfere	ntial Reir	nforcemen	t Areas, n	nm²/m	
mm	mm	mm	mm	mm	mm	m	A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M," mm
1000	1000	100	450	105	405	0.00								141, 111111
1200	1200	190	150	125 125	125	0-0.6 0.6-0.9	390 280	1000	530	260 260	490	390	300	070
1200	1200 1200	125	125 125	125	125	0.6-0.9		660	600	260				970 970
1200 1200	1200	125 125	125	125	125 125	3	260 260	300 320	320 340	260				970
1200	1200	125	125	125	125	4.6	260	450	470	260				970
1200	1200	125	125	125	125	6.1	260	580	600	260				970
1200	1200	125	125	125	125	7.6	300	700	720	260				970
1200	1200	125	125	125	125	9.1	360	830	850	260				970
1200	1200	125	125	125	125	10.7	430	960	980	260				970
				.20		1500 by 900								
						1300 by 900	Dy 130 11		0' (,		21	
Span	Rise mm	Тор	Bottom mm	Side mm	Haunch	Design Earth Cover m			Circumfere					
mm		mm			mm		A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M," mm
1500	900	200	175	150	150	0-0.6	410	940	470	300	450	410	360	
1500	900	150	150	150	150	0.6-0.9	450	620	470	300				1150
1500	900	150	150	150	150	0.9-1.5	300	300	300	300				920
1500	900	150	150	150	150	3	300	360	360	300				920
1500	900	150	150	150	150	4.6	360	510	510	300				890
1500	900	150	150	150	150	6.1	450	660	660	300				890
1500	900	150	150	150	150	7.6	550	810	810	300				890
1500	900	150	150	150	150	9.1	660	960	960	300				890
1500	900	150	150	150	150	10.7	790	1100	1130	300				890
						1500 by 1200	by 150 ı	mm						
Span	Rise	Тор	Bottom	Side	Haunch	Design Earth Cover			Circumfere	ntial Reir	nforcemen	t Areas, n	nm²/m	
mm	mm	mm	mm	mm	mm	hh Ston	A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M," mn
1500	1200	200	175	150	150	0-0.6	410	1020	510	300	470	410	360	
1500	1200	150	150	150	150	0.6-0.9	390	700	530	300				1150
1500	1200	150	150	150	150	0.9-1.5	300	340	340	300				1150
1500	1200	150	150	150	150		300	410	410	300				920
1500	1200	150	150	150	150	4.6	300	550	580	300				890
1500	1200	150	150	150	150	6.1	390	700	720	300				890
1500	1200	150	150	150	150	7.6	450	870	890	300				890
1500	1200	150	150	150	150	9.1	550	2120	2120	300				890
1500	1200	150	150	150	150	10.7	640	1190	1210	300				890
						1500 by 1500	by 150 i	mm						
Span	Rise	Тор	Bottom	Side	Haunch	Design Earth Cover	135_4		Circumfere	ential Reir	nforcemen	t Areas, n	nm²/m	089
mm	mm	mm	mm	mm	mm	S151/12/00-72/00-70	A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M," mm
1500	1500	200	175	150	150	0-0.6	410	1060	550	300	510	410	360	
1500	1500	150	150	150	150	0.6-0.9	340	750	600	300	310	410	000	1150
1500	1500	150	150	150	150	0.9-1.5	300	360	390	300				1150
1500	1500	150	150	150	150	3	300	430	450	300				1150
1500	1500	150	150	150	150	4.6	300	580	600	300				920
1500	1500	150	150	150	150	6.1	320	750	770	300				890
1500	1500	150	150	150	150	7.6	410	890	940	300				890
1500	1500	150	150	150	150	9.1	470	1060	1080	300				890
1500	1500	150	150	150	150	10.7	560	1230	1250	300				890
						1800 by 900			.200					
0	D:		D-#	0: 1	11 1	<u> </u>	~,o II		Circumfere	ntial Rein	nforcemen	t Areas n	nm²/m	
Span mm	Rise mm	Top mm	Bottom mm	Side mm	Haunch mm	Design Earth Cover m		Λ						"M," mm
							A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	ıvı, mn
1800	900	200	175	175	175	0-0.6	490	960	430	360	410	410	360	4200
1800	900	175	175	175	175	0.6-0.9	510	640	430	360				1100
1800	900	175	175	175	175	0.9-1.5	360	360	360	360				1020
1800	900	175	175	175	175	3	360	430	430	360				1000
1800	900	175	175	175	175	4.6	490	580	600	360				970
1800	900	175	175	175	175	6.1	640	750	770	360				970
1800	900	175	175	175	175	7.6	770	940	940	360				970
1800	900	175	175	175	175	9.1	920	1100	1100	360				970
1800	900	175	175	175	175	10.7	1060	1270	1270	360				970
						1800 by 1200	by 175 ı	mm						
Span	Rise	Тор	Bottom	Side	Haunch	Design Earth Cover			Circumfere	ntial Reir	nforcemen	t Areas, n	nm²/m	
mm	mm	mm	mm	mm	mm	m	A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M," mn
1800	1200	200	175	175	175	0-0.6	410	1040	490	360	450	410	360	,
.000	1200	200	175	175	175	0 0.0	710	10-0	730	000	-50	710	000	



TABLE	= 1 (Continued

						TABLE 1	Continu	ea						
1800	1200	175	175	175	175	0.6-0.9	450	700	490	360				1100
	1200	175	175	175	175	0.9-1.5	360	360	360	360				1020
1800	1200	175	175	175	175	3	360	470	490	360				1000
	1200	175	175	175	175	4.6	430	640	660	360				970
	1200	175	175	175	175	6.1	530	830	850	360				970
	1200	175	175	175	175	7.6	640	1020	1040	360				970
	1200	175	175	175	175	9.1	770	1210	1230	360				970
1800	1200	175	175	175	175	10.7	890	1400	1420	360				970
						1800 by 1500	by 175 r	nm						
Span	Rise	Тор	Bottom	Side	Haunch	Design Earth Cover		(Circumfere	ential Rei	nforcemen	t Areas, n	nm²/m	
mm	mm	mm	mm	mm	mm	m	A _{s1}	A _{s2}	A _{s3}	A_{s4}	A _{s5}	A _{s7}	A _{s8}	"M," mm
1800	1500	200	175	175	175	0-0.6	410	1110	530	360	470	410	360	
	1500	175	175	175	175	0.6-0.9	410	770	550	360				1330
	1500	175	175	175	175	0.9-1.5	360	410	410	360				1100
	1500	175	175	175	175	3	360	490	510	360				1000
	1500	175	175	175	175	4.6	360	680	700	360				970
	1500	175	175	175	175	6.1	470	870	910	360				970
	1500	175	175	175	175	7.6	550	1080	1110	360				970
	1500	175	175	175	175	9.1	660	1270	1300	360				970
1800	1500	175	175	175	175	10.7	770	1460	1510	360				970
						1800 by 1800	by 175 r							
Span	Rise	Тор	Bottom	Side	Haunch	Design Earth Cover					nforcemen			
mm	mm	mm	mm	mm	mm	m	A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M," mm
1800	1800	200	175	175	175	0-0.6	410	1140	580	360	490	410	360	
1800	1800	175	175	175	175	0.6-0.9	360	810	600	360				1330
1800	1800	175	175	175	175	0.9-1.5	360	430	430	360				1330
1800	1800	175	175	175	175	3	360	510	550	360				1100
1800	1800	175	175	175	175	4.6	360	700	750	360				1000
1800	1800	175	175	175	175	6.1	410	910	940	360				970
1800	1800	175	175	175	175	7.6	490	1110	1150	360				970
1800	1800	175	175	175	175	9.1	580	1300	1340	360				970
1800	1800	175	175	175	175	10.7	680	1510	1550	360				970
						2100 by 1200	by 200 r	nm						
Span	Rise	Тор	Bottom	Side	Haunch	Design Earth Cover	Pre		Circumfere	ential Rei	nforcemen	it Areas, n	nm²/m	
Span mm	Rise mm	Top mm	Bottom mm	Side mm	Haunch mm	Design Earth Cover m	A _{s1}		Circumfere	ential Rei	nforcemen A _{s5}	t Areas, n	nm²/m A _{s8}	"M," mm
mm	mm	mm	mm	mm	mm	m		A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M," mm
mm 2100	mm 1200	mm 200	mm 200	mm 200	mm 200	0-0.6	550	A _{s2}	A _{s3} 450	A _{s4}				
mm 2100 2100	mm 1200 1200	200 200	200 200	200 200	mm 200 200	0-0.6 A 0.6-0.9	550 510	A _{s2} 1040 700	A _{s3} 450 470	A _{s4} 410 410	A _{s5}	A _{s7}	A _{s8}	1200
2100 2100 2100	mm 1200 1200 1200	200 200 200	200 200 200	200 200 200	mm 200 200 200	0-0.6 AS 0.6-0.9 0.9-1.5	550 510 410	A _{s2} 1040 700 410	A _{s3} 450 470 410	A _{s4} 410 410 410	A _{s5}	A _{s7}	A _{s8} 410	1200 1100
2100 2100 2100 2100 2100	mm 1200 1200 1200 1200	200 200 200 200 200	200 200 200 200 200	200 200 200 200 200	mm 200 200 200 200 200	m 0-0.6 0.6-0.9 0.9-1.5 (sist/12.6342ec-9)	550 510 410 410	A _{s2} 1040 700 410 530	A _{s3} 450 470 410 7 530	A _{s4} 410 410 410 410	A _{s5}	A _{s7}	A _{s8} 410	1200 1100 - 0 8 1100
mm 2100 2100 2100 2100 2100 2100 2100	mm 1200 1200 1200 1200 1200	mm 200 200 200 200 200 200	200 200 200 200 200 200 200	200 200 200 200 200 200	200 200 200 200 200 200 200	m 0-0.6 AS 0.6-0.9 0.9-1.5 Sist/120342ec-90	550 510 410 410 550	A _{s2} 1040 700 410 20 530 720	A _{s3} 450 470 410 7 530 740	A _{s4} 410 410 410 410 410 410	A _{s5}	A _{s7}	A _{s8} 410	1200 1100 - 08 1100 1050
mm 2100 2100 2100 2100 2100 2100 2100 2	mm 1200 1200 1200 1200 1200 1200 1200	mm 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200	m 0-0.6 0.6-0.9 0.9-1.5 SISV 12 (3) 4.6 6.1	550 510 410 410 550 700	A _{s2} 1040 700 410 530 720 940	A _{s3} 450 470 410 7530 740 960	A _{s4} 410 410 410 410 410 410 410	A _{s5}	A _{s7}	A _{s8} 410	1200 1100 - (8 1100 1050 1050
2100 2100 2100 2100 2100 2100 2100 2100	mm 1200 1200 1200 1200 1200 1200 1200 12	200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200	m 0-0.6 0.6-0.9 0.9-1.5 SIST 12 (3 4.6 6.1 7.6	550 510 410 410 550 700 850	A _{s2} 1040 700 410 20530 720 940 1150	A _{s3} 450 470 410 7530 740 960 1170	A _{s4} 410 410 410 410 410 410 410 410 410	A _{s5}	A _{s7}	A _{s8} 410	1200 1100 -08 1100 1050 1050 1050
2100 2100 2100 2100 2100 2100 2100 2100	mm 1200 1200 1200 1200 1200 1200 1200	mm 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200	m 0-0.6 0.6-0.9 0.9-1.5 (SISV 12 0.3 4.6 6.1	550 510 410 410 550 700	A _{s2} 1040 700 410 530 720 940	A _{s3} 450 470 410 7530 740 960	A _{s4} 410 410 410 410 410 410 410	A _{s5}	A _{s7}	A _{s8} 410	1200 1100 - (8 1100 1050 1050
2100 2100 2100 2100 2100 2100 2100 2100	mm 1200 1200 1200 1200 1200 1200 1200 12	200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200	mm 200 200 200 200 200 200 200 200 200	m 0-0.6 AS 0.6-0.9 0.9-1.5 SIST/12 0 3 12 00-9 4.6 6.1 7.6 9.1	550 510 410 410 550 700 850 1000 1170	A _{s2} 1040 700 410 530 720 940 1150 1360 1590	A _{s3} 450 470 410 530 740 960 1170 1380	A _{s4} 410 410 410 410 410 410 410 410 410	A _{s5}	A _{s7}	A _{s8} 410	1200 1100 -08 1100 1050 1050 1050 1050
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mm 2100 2100 2100 2100 2100 2100 2100 21	mm	mm 200 200 200 200 200 200 200 200 200	mm 200 200 200 200 200 200 200 200 200	mm 200 200 200 200 200 200 200 200 200	mm 200 200 200 200 200 200 200 200 200	m 0-0.6 AS 0.6-0.9 0.9-1.5 4.6 6.1 7.6 9.1 10.7 2100 by 1500 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 2100 by 1800 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 2100 by 1800	550 510 410 550 700 850 1000 1170 by 200 r A _{s1} 490 470 410 490 620 740 870 1000 by 200 r	A _{s2} 1040 700 410 20 530 720 940 1150 1360 1590 nm A _{s2} 1110 770 430 580 790 1020 1230 1460 1700 nm A _{s2} 1150 830 470 600	A _{s3} 450 470 410 7530 740 960 1170 1380 1590 Circumfere A _{s3} 510 600 810 1040 1250 1490 1720 Circumfere A _{s3} 550 580 470 640	A _{s4} 410 410 410 410 410 410 410 410 410 410	A _{s5} 410 dcd fe/a inforcement A _{s5} 450	A _{s7} 410 at Areas, n A _{s7} 410	A _{s8} 410 433 m A _{s8} 410 A _{s8} 410	1200 1100 -0.8.1100 1050 1050 1050 1050 1050 1050 1100 1100 11050 1050 1050 1050 1050 1050
mm 2100 2100 2100 2100 2100 2100 2100 21	mm	mm 200 200 200 200 200 200 200 200 200	mm 200 200 200 200 200 200 200 200 200	mm 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200	mm 200 200 200 200 200 200 200 200 200	m 0-0.6 0.6-0.9 0.9-1.5 4.6 6.1 7.6 9.1 10.7 2100 by 1500 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 2100 by 1800 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5	550 510 410 550 700 850 1000 1170 by 200 r A _{s1} 490 470 410 490 620 740 870 1000 by 200 r	A _{s2} 1040 700 410 20 530 940 1150 1360 1590 nm A _{s2} 1110 770 430 580 790 1020 1230 1460 1700 nm A _{s2} 1150 830 470	A _{s3} 450 470 410 7530 740 960 1170 1380 1590 Circumfere A _{s3} 510 530 600 810 1040 1250 1490 1720 Circumfere A _{s3} 550 580 470	A _{s4} 410 410 410 410 410 410 410 410 410 410	A _{s5} 410 dcd fe/a inforcement A _{s5} 450	A _{s7} 410 at Areas, n A _{s7} 410	A _{s8} 410 433 m A _{s8} 410 A _{s8} 410	1200 1100 1100 1050 1050 1050 1050 1050



						(14) C 14:								
						TABLE 1	Continue	ed						
2100	1800	200	200	200	200	7.6	660	1300	1320	410				105
2100	1800	200	200	200	200	9.1	770	1530	1550	410				105
2100	1800	200	200	200	200	10.7	890	1760	1800	410				105
						2100 by 2100	by 200 n	nm						
Span	Rise	Тор	Bottom	Side	Haunch	Design Earth Cover			Circumfere	ential Rei	nforcemen	t Areas, n	nm²/m	
mm	mm	mm	mm	mm	mm	m	A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M," r
														171, 1
2100	2100	200	200	200	200	0-0.6	470	1190	580	410	470	410	410	450
2100	2100	200	200	200	200	0.6-0.9	470	870	620	410				150
2100	2100	200	200	200	200	0.9-1.5	470	490	490	410				150
2100 2100	2100 2100	200 200	200 200	200 200	200 200	3 4.6	470 470	620 850	660 890	410 410				120 110
100	2100	200	200	200	200	6.1	510	1080	1130	410				105
100	2100	200	200	200	200	7.6	600	1320	1360	410				105
100	2100	200	200	200	200	9.1	700	1550	1590	410				105
100	2100	200	200	200	200	10.7	810	1780	1850	410				105
						2400 by 1200	bv 200 n	nm						
pan	Rise	Тор	Bottom	Side	Haunch	Design Earth Cover	.,		Circumfere	ential Rei	nforcemen	t Areas, n	nm²/m	
nm	mm	mm	mm	mm	mm	m	A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M,"
400	1000	000	000	000	000	0.00								,
400	1200	200	200	200	200	0-0.6	660	1130	490	410	430	410	410	10
400	1200	200	200	200	200	0.6-0.9	640	830	530	410				127
400 400	1200 1200	200 200	200 200	200 200	200 200	0.9-1.5 3	430 580	470 660	470 680	410 410				118 118
400	1200	200	200	200	200	4.6	790	910	940	410				105
400	1200	200	200	200	200	6.1	1000	1210	1210	410				108
400	1200	200	200	200	200	7.6	1230	1440	1460	410				105
						2400 by 1500								
	Dies	Ton	Dottom	Cido	Haurah				Circumfere	ential Rein	nforcemen	t Areas in	nm²/m	
pan nm	Rise mm	Top mm	Bottom mm	Side mm	Haunch mm	Design Earth Cover m		rok						"NA"
							A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M,"
400	1500	200	200	200	200	0-0.6	600	1210	530	410	450	410	410	
400	1500	200	200	200	200	0.6-0.9	580	890	600	410				127
400	1500	200	200	200	200	0.9-1.5	410	510	510	410				12
400	1500	200	200	200	200	3	510	700	740	410				115
400	1500	200	200	200	200	4.6	700	980	1020	410				105
400	1500	200	200	200	200	6.1	890	1270	1300	410				105
400	1500	200	200	200	200	7.6	1080	1550	1590	410				105
						2400 by 1800	by 200 n	nm						
pan	Rise	Тор	Bottom	Side	Haunch	Design Earth Cover	49 5 A	<u>u</u> 100 0	Circumfere	ential Rei	nforcemen	t Areas, r	nm²/m	A0 -
nm //	SUmmla	mm	en.ammat	al(mmSl	ancmmds/	S1ST/120m42ec-90	A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M,"
400	1800	200	200	200	200	0-0.6	550	1250	600	410	470	410	410	
400	1800	200	200	200	200	0.6-0.9	530	960	640	410				140
400	1800	200	200	200	200	0.9-1.5	410	550	550	410				127
400	1800	200	200	200	200	3	470	740	790	410				115
400	1800	200	200	200	200	4.6	640	1040	1080	410				105
400	1800	200	200	200	200	6.1	810	1340	1380	410				105
400	1800	200	200	200	200	7.6	980	1630	1680	410				10
						2400 by 2100	by 200 n	nm						
pan	Rise	Тор	Bottom	Side	Haunch	Design Earth Cover			Circumfere				nm²/m	
mm	mm	mm	mm	mm	mm	m	A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M,"
400	2100	200	200	200	200	0-0.6	510	1320	640	410	490	410	410	10
400	2100	200	200	200	200	0.6-0.9	490	1000	700	410				166
400	2100	200	200	200	200	0.9-1.5	410	580	600	410				140
400	2100	200	200	200	200	3	430	790	830	410				115
400	2100	200	200	200	200	4.6	600 740	1080	1130	410				105
400 400	2100 2100	200 200	200 200	200 200	200 200	6.1 7.6	740 890	1380 1700	1440 1740	410 410				105 105
. 100	_100	200	200	200	200	2400 by 2400			17-10	+10				100
'nc=	Dia-	Та	Dotte:	C:-I-	Harrie - L		y 200 II		Circumfere	ential Rei	nforcemen	t Areas n	nm²/m	
Span mm	Rise mm	Top mm	Bottom mm	Side mm	Haunch mm	Design Earth Cover m		Δ	A _{s3}					"M,"
							A _{s1}	A _{s2}		A _{s4}	A _{s5}	A _{s7}	A _{s8}	ıvı,
2400	2400	200	200	200	200	0-0.6	470	1360	680	410	510	410	410	
2400	2400	200	200	200	200	0.6-0.9	470	1040	740	410				166

410

1270

0.6-0.9

0.9-1.5

4.6

200

2400