

Chambers

Drawing Number	Item Description	Product Size (Length X Width X Depth in mm)
VC21-20-2121-C	2121 Vault w/ Lid Assembly	2030 x 1210 x 1060 i.d.
VC21-25-2121-C	2121 Watermeter Vault w/ Lid Assembly	2030 x 1210 x 1060 i.d.
VC21-MH-2121-C	2121 Vault w/ MH Entry Roof Slab	2030 x 1210 x 1060 i.d.
VC21-20-2122-C	2122 Chamber	2030 x 1210 x 1970 i.d.
VC21-N9-2122-C	2122 Chamber w/ Opening for 2121 Roof Slab / Collar	2030 x 1210 x 1970 i.d.
VC31-20-3151-C	3151 Vault w/ MH Entry Roof Slab	3000 x 1500 x 1100 i.d.
VC31-25-3151-C	3151 Watermeter Vault w/ Steel Lid Assembly	3000 x 1500 x 1100 i.d.
VC31-20-ZZZZ-C	3152 Chamber	3000 x 1500 x 2000 i.d.
VC31-20-2121-C	3152 Chamber w/ Opening for 2121 Roof Slab / Collar	3000 x 1500 x 2000 i.d.
VC31-20-12BU-C	3152 Chamber, Burnaby Standard w/ Hatch Entry	3000 x 1500 x 2000 i.d.
VC31-20-09BU-C	3152 Chamber, Burnaby Standard w/ MH Entry	3000 x 1500 x 2000 i.d.
VC33-20-ZZZZ-C	331822 Chamber	3330 x 1830 x 2260 i.d.
VC33-20-UBC-C	331822 Chamber, UBC Custom Power or Comm	3330 x 1830 x 2270 i.d.
VC42-20-1000-C	4211 Chamber w/ Roof Slab	3940 x 2120 x 1980 i.d.
VC42-20-ZZZZ-C	4212 Chamber (402120)	3940 x 2120 x 1980 i.d.
VC42-20-2121-C	4212 Chamber (402120) w/ Opening for 2121 Roof Slab / Collar	3940 x 2120 x 1980 i.d.
VC42-20-0832-C	4212 Chamber (402120) w/ Opening for 832 Collar	3940 x 2120 x 1980 i.d.
VC40-20-2500-C	402125 Chamber	3940 x 2120 x 2500 i.d.
VC40-20-3000-C	402130 Chamber	3940 x 2120 x 3000 i.d.



Chambers

Drawing Number	Item Description	Product Size (Length X Width X Depth in mm)
VC47-20-ZZZZ-C	4712 Chamber (472120)	4700 x 2125 x 2000 i.d.
VC47-20-2500-C	472125 Chamber	4700 x 2125 x 2500 i.d.
VC47-20-3000-C	472130 Chamber	4700 x 2125 x 3000 i.d.
VC47-20-3030-C	473030 Chamber	4700 x 3050 x 3000 i.d.
VC18-MH-ZZZZ-C	181810 Chamber	1780 x 1780 x 1200 i.d.
VC18-20-ZZZZ-C	1818 Chamber	1780 x 1780 x 2410 i.d.
VC22-N9-2221-C	2221 Chamber & Collar	1845 x 1845 x 2085 i.d.
VC22-20-2221-C	2221 Chamber w/ MH Entry Roof Slab	1845 x 1845 x 2085 i.d.
VC22-MH-2221-C	2221 Chamber w/ MH Entry Riser Roof Slab	1845 x 1845 x 2085 i.d.
VC22-DP-2221-C	2221 Chamber w/ MH Entry Riser Roof Slab (Heavy Load Design)	1845 x 1845 x 2085 i.d.
VCFI-20-ZZZZ-C	251815 Firemeter Chamber w/ MH Entry Roof Slab	2515 x 1825 x 1600 i.d.
VCFI-20-DEEP-C	251820 Deep Firemeter Chamber w/ MH Entry Roof Slab	2515 x 1825 x 2000 i.d.
VCMC-20-ZZZZ-C	332120 Meter Chamber w/ MH Entry Roof Slab	3350 x 2130 x 1980 i.d.
VC30-25-ZZZZ-C	302610 Chamber w/ MH Entry Roof Slab	2970 x 2590 x 2000 i.d.
VC30-20-ZZZZ-C	302620 Chamber	2970 x 2590 x 2000 i.d.



Chambers

<u>Drawing Number</u>	Item Description	Product Size (Length X Width X Depth in mm)
SVZZ-51-0243-C	243 Collar & Lid Assembly (1270 x 660 Thru)	1500 x 890 x 150
SVZZ-51-4040-C	4040 Collar & Lid Assembly (820 Sq Thru)	1040 x 1040 x 150
SVZZ-51-1200-C	1.2m Collar & Lid Assembly (956 Sq Thru)	1200 x 1200 x 150
SVZZ-51-1500-C	1.5m Collar & Lid Assembly (1234 Sq Thru)	1520 x 1520 x 150
VC17-AA-ZZZZ-C	1.7m Collar & Custom Hatch Cast In (Up to 1220 Sq Thru)	1720 x 1720 x 175
VC21-51-2121-C	2121 Collar & Lid Assembly (1700 x 800 Thru)	2295 x 1490 x 200
SVZZ-55-0832-C	832 Comm Collar & Lwt Lid Assembly (2570 x 800 Thru)	2940 x 1150 x 190
VC22-51-2221-C	2221 Collar & Lid Assembly (1500 Sq Thru)	2226 x 2226 x 203
RSLA-MB-3050-C	Aluminum Ladder w/ Safety Post (Ceiling or Wall Mount)	Varies
VCLA-19AL-RUNG-C	Standard Aluminum Ladder Rung	
VCZZ-INST-CH-C	Chamber Installation Template	

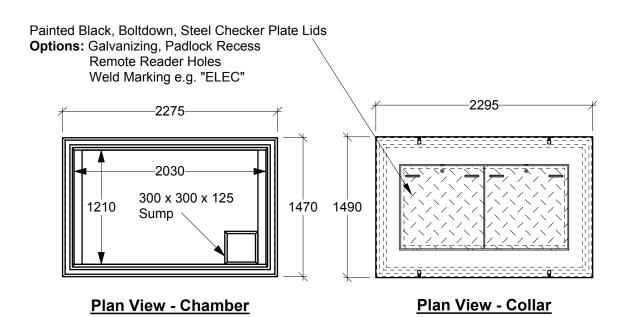
<u>Note</u>: If you cannot find the chamber size you require, please call the Sales Office to discuss modifications or design/build options.

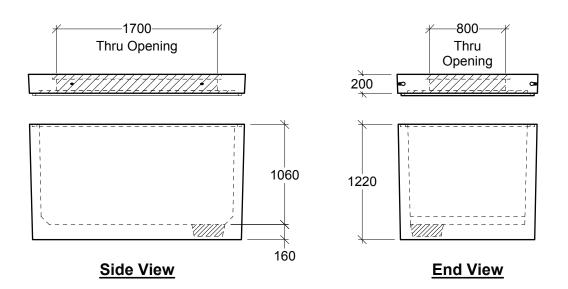
Custom openings are available upon request.

All Chambers are available with the following options:

- Xypex Waterproofing Admixture for Concrete
- Interior White Coating Improves Lighting
- Exterior Black Damp-proofing
- Cable Support Channels & Racking
- Knock-Outs, Duct Terminators, Duct Banks or Pipe Sleeves
- Inserts
- Pulling Irons
- · Custom Openings & Hatches

Chamber Design: H-20 Traffic Load Rated - Unless Otherwise Noted Checker Plate Lid Design: Boulevard Use H-20 Static Load Rated





- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Boulevard (Off-Road) Use H-20 Static Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- · Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others



2121 Vault w/ Lid Assembly

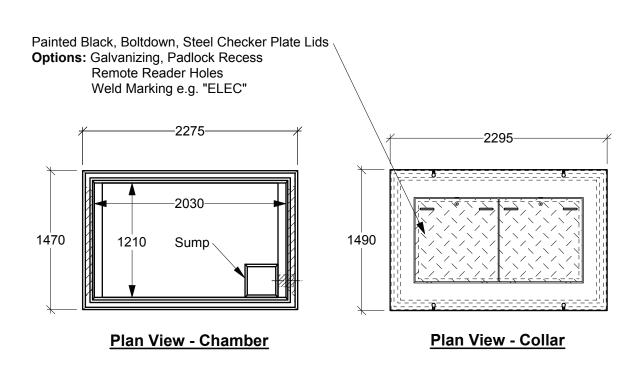
Chamber: 6,850 lbs / 3,110 kgs Collar:

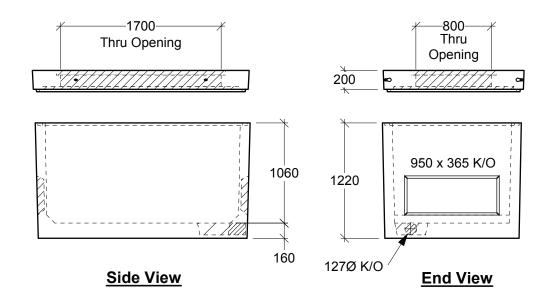
2,370 lbs / 1,080 kgs

Scale: 1:40 mm Rev: 28Jun08

Dwg#: **VC21-20-2121-C**

19060 - 54th Avenue Surrey, B.C. V3S 8E5





- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
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- · Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- $\cdot \ \, \text{Site Installation, Backfilling \& Suitability for Use is the responsibility of others} \\$

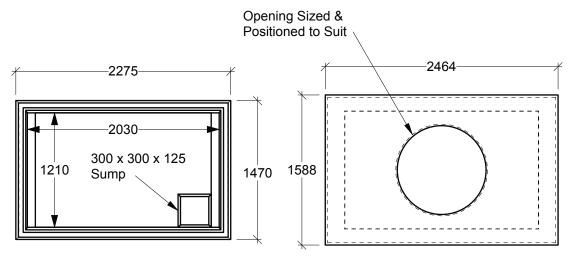


2121 Watermeter Vault w/ Lid Assembly

Chamber: 6,850 lbs / 3,110 kgs Collar: 2,370 lbs / 1,080 kgs Scale: 1:40 mm Rev: 28Jun08

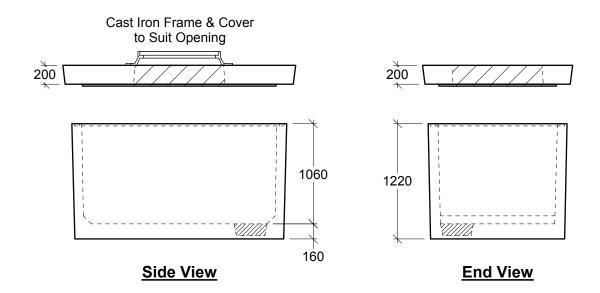
Dwg#: **VC21-25-2121-C**

19060 - 54th Avenue



Plan View - Chamber

Plan View - Roof Slab



- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others

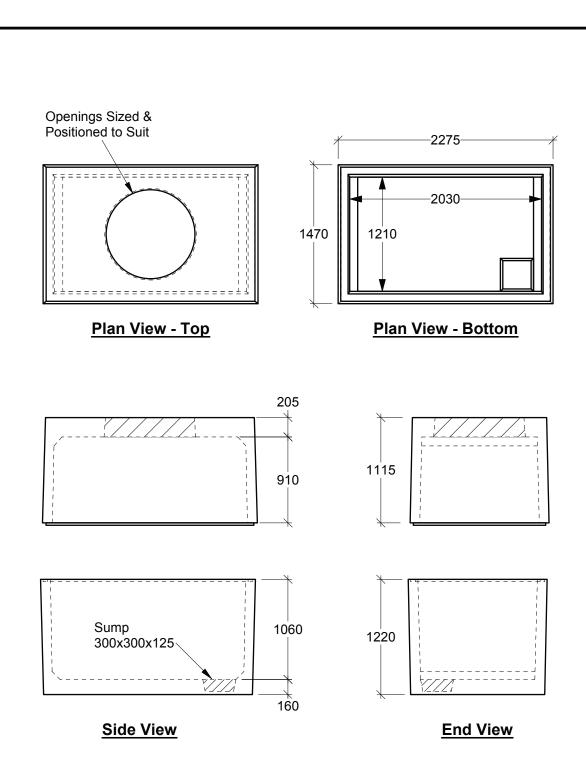


2121 Vault w/ MH Entry Roof Slab

Chamber: 6,850 lbs / 3,110 kgs Roof Slab: 3,610 lbs / 1,640 kgs Scale: 1:40 mm Rev: 28Jun08

Dwg#: **VC21-MH-2121-C**

19060 - 54th Avenue



- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others

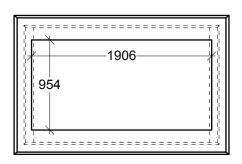


2122 Chamber

Top: 6,640 lbs / 3,020 kgs Btm: 6,930 lbs / 3,150 kgs Scale: 1:40 mm Rev: 28Jun08

Dwg#: **VC21-20-2122-C**

19060 - 54th Avenue Surrey, B.C. V3S 8E5



2030 1470 + 1200 x 254 1210 x 300 Deep Sump w/ Recess

Plan View - Top

Plan View - Bottom

2121 Collar

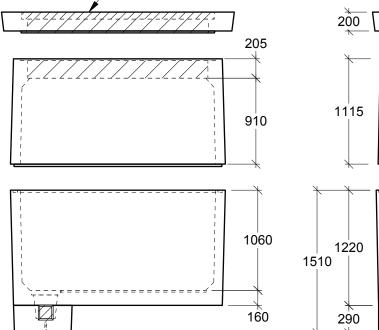
Painted Black, Boltdown, Steel Checker Plate Lids **Options:** Galvanizing, Padlock Recess, Remote Reader Holes,

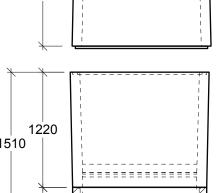
Weld Marking e.g. "ELEC"

OR

2121 Roof Slab Customizations Available:

For Hatch Frame Deeper than 100mm & or Heavy Traffic Applications up to 915x1835 Thru Opening (Subject to Hatch Type)





Side View

End View

General Notes:

- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- \cdot Designed for Pedestrian or Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- \cdot Site Installation, Backfilling & Suitability for Use is the responsibility of others

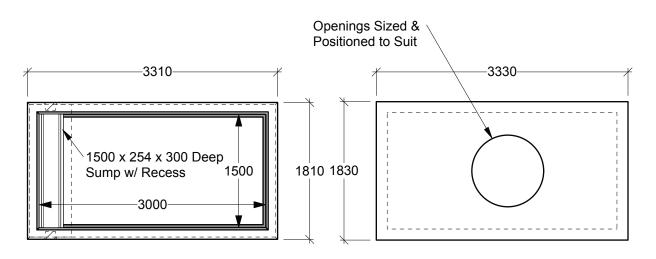


2122 Chamber w/ Opening for 2121 Roof Slab

Top: 5,200 lbs / 2,360 kgs Btm: 8,000 lbs / 3,630 kgs Scale: 1:40 mm Rev: 05Jun17

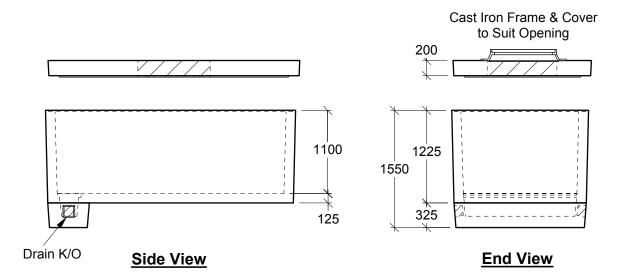
Dwg#: VC21-N9-2122-C

19060 - 54th Avenue



Plan View - Chamber

Plan View - Roof Slab



- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others

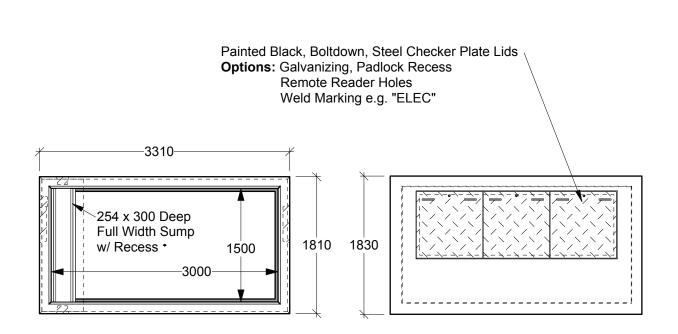


3151 Vault w/ MH Entry Roof Slab

Chamber: 11,430 lbs / 5,190 kgs Roof Slab: 6,590 lbs / 2,990 kgs Scale: 1:50 mm Rev: 28Jun08

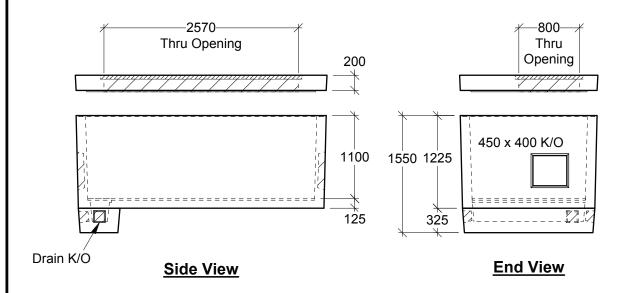
Dwg#: VC31-20-3151-C

19060 - 54th Avenue Surrey, B.C. V3S 8E5



Plan View - Chamber

Plan View - Roof Slab



General Notes:

- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Boulevard (Off-Road) Use H-20 Static Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others

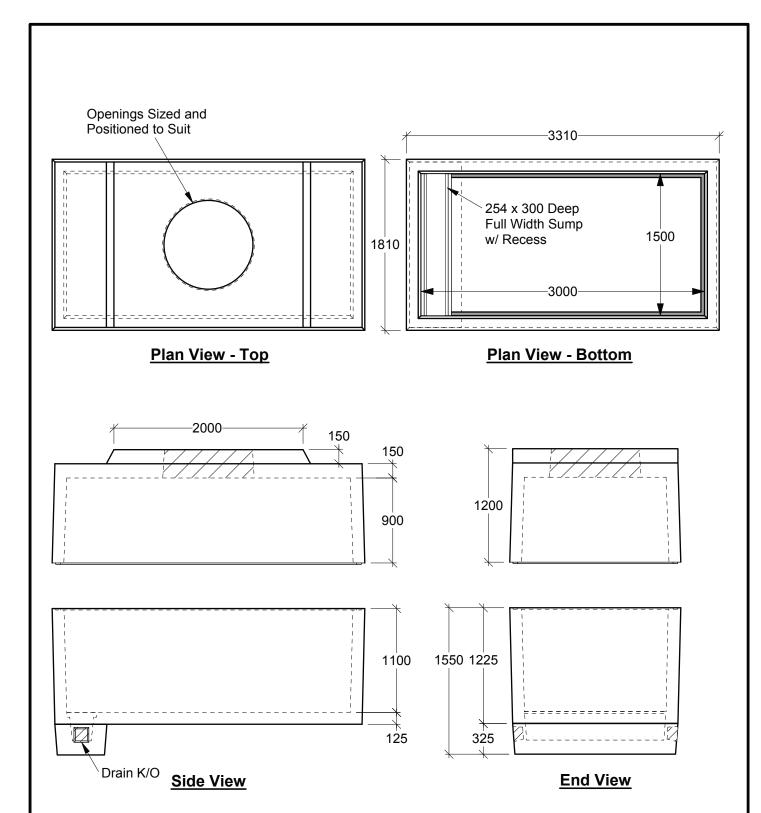


3151 Watermeter Vault w/ Lid Assembly

Chamber: 12,470 lbs / 5,660 kgs Roof Slab: 6,580 lbs / 2,990 kgs Scale: 1:50 mm Rev: 28Jun08

Dwg#: **VC31-25-3151-C**

19060 - 54th Avenue Surrey, B.C. V3S 8E5



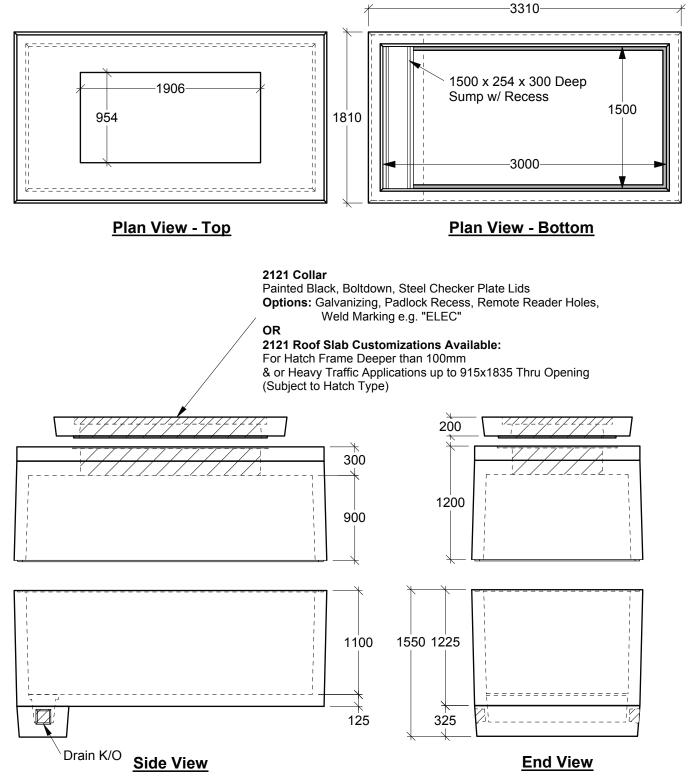
- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others



3152 Chamber

Top: 12,900 lbs / 5,830 kgs Btm: 11,500 lbs / 5,190 kgs Scale: 1:40 mm Rev: 28Jun08

Dwg#: VC31-20-ZZZZ-C



- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Pedestrian or Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others

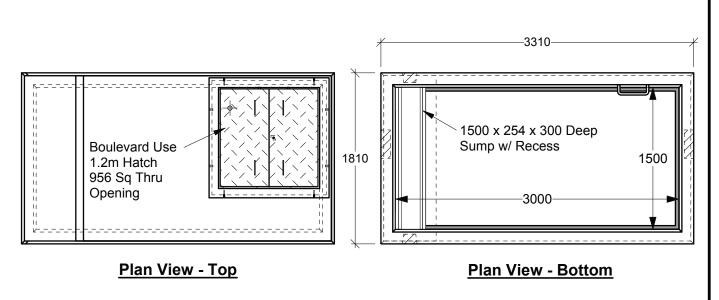


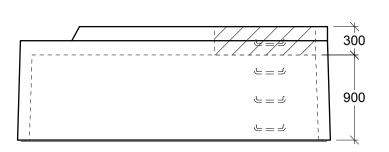
3152 Chamber w/ Opening for 2121 Roof Slab

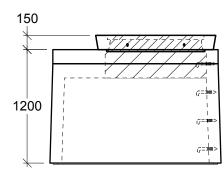
Top: 12,600 lbs / 5,720 kgs Btm: 12,500 lbs / 5,670 kgs Scale: 1:40 mm Rev: 28Jun08

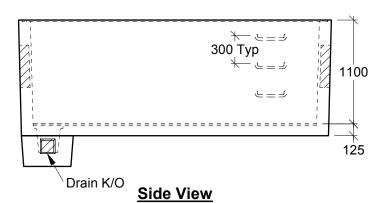
Dwg#: VC31-20-2121-C

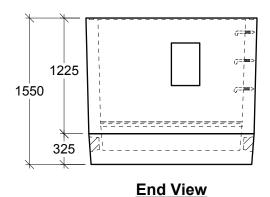
19060 - 54th Avenue Surrey, B.C. V3S 8E5 in











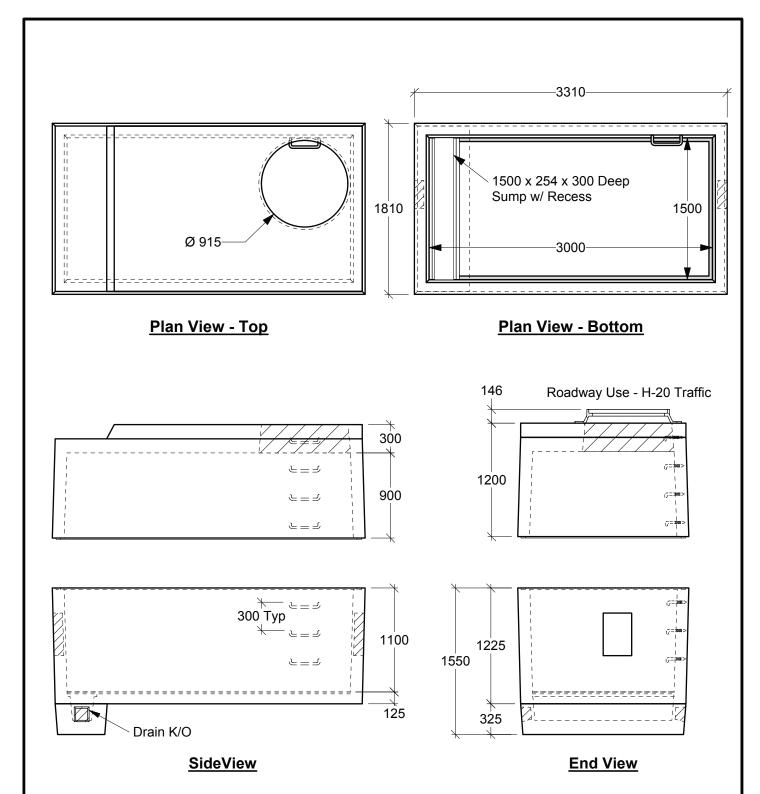
- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Boulevard (Off-Road) Use H-20 Static Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others



3152 Chamber - Burnaby Std w/ Hatch Entry

Top: 13,700 lbs / 6,220 kgs Btm: 12,500 lbs / 5,660 kgs Scale: 1:40 mm Rev: 28Jun08

Dwg#: **VC31-20-12BU-C**



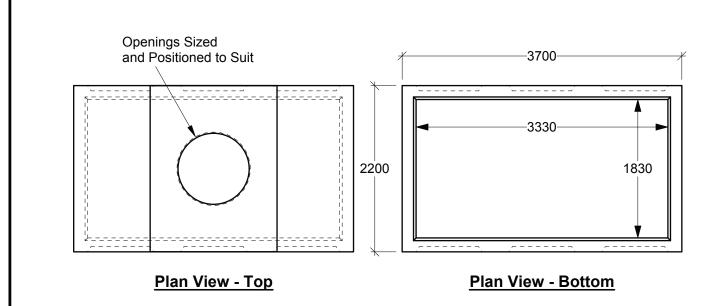
- · Lift Cables Provided
- · Cement to CSA A-3001 Portland Cement
- · Reinforcing Steel to CSA G-30.18-M Grade 400
- · Minimum Concrete Strength 30 MPa @ 28 Days
- · Site Installation and Backfilling are the Responsibility of Others
- Design and Provision of Thrust Blocks is the Responsibility of Others

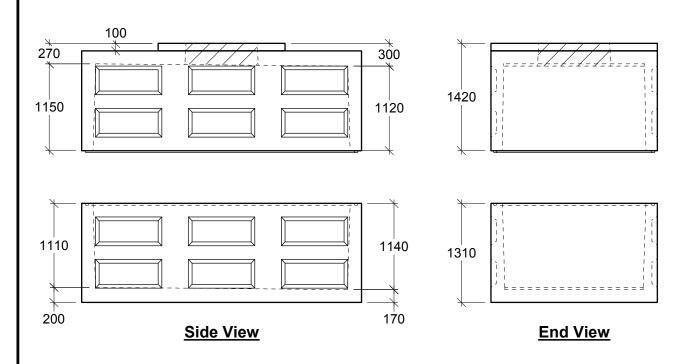


3152 Chamber - Burnaby Std w/ MH Entry

Top: 12,100 lbs / 5,480 kgs Btm: 12,500 lbs / 5,660 kgs Scale: 1:40 mm Rev: 28Jun08

Dwg#: VC31-20-09BU-C





- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others

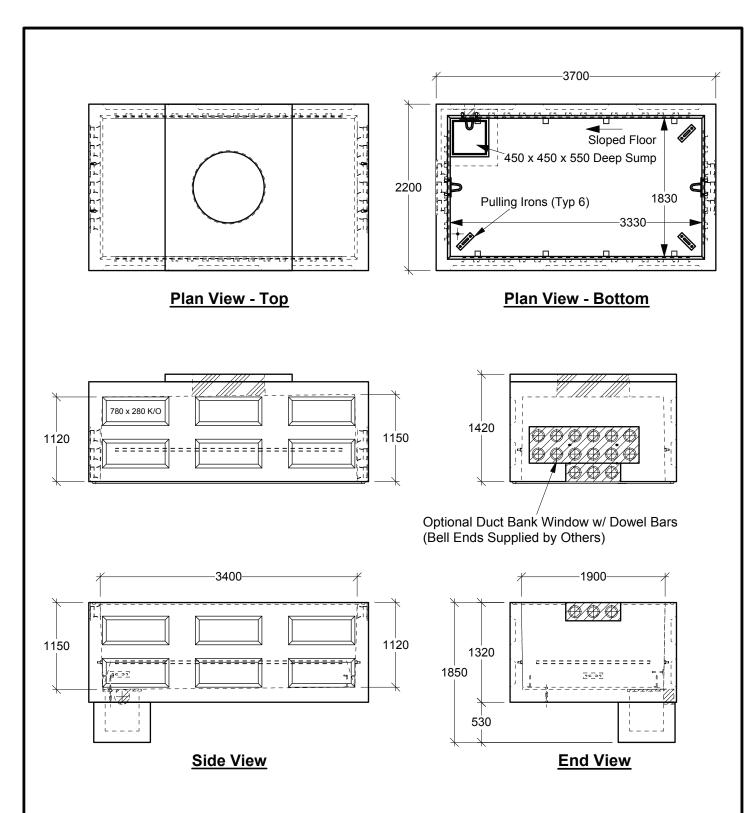


331822 Chamber

Top: 18,750 lbs / 8,500 kgs Btm: 18,800 lbs / 8,550 kgs Scale: 1:50 mm Rev: 28Jun08

Dwg#: **VC33-20-ZZZZ-C**

19060 - 54th Avenue Surrey, B.C. V3S 8E5



- ·Product manufactured in accordance with CSA A23.4
- ·Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- ·Site Installation, Backfilling & Suitability for Use is the responsibility of others

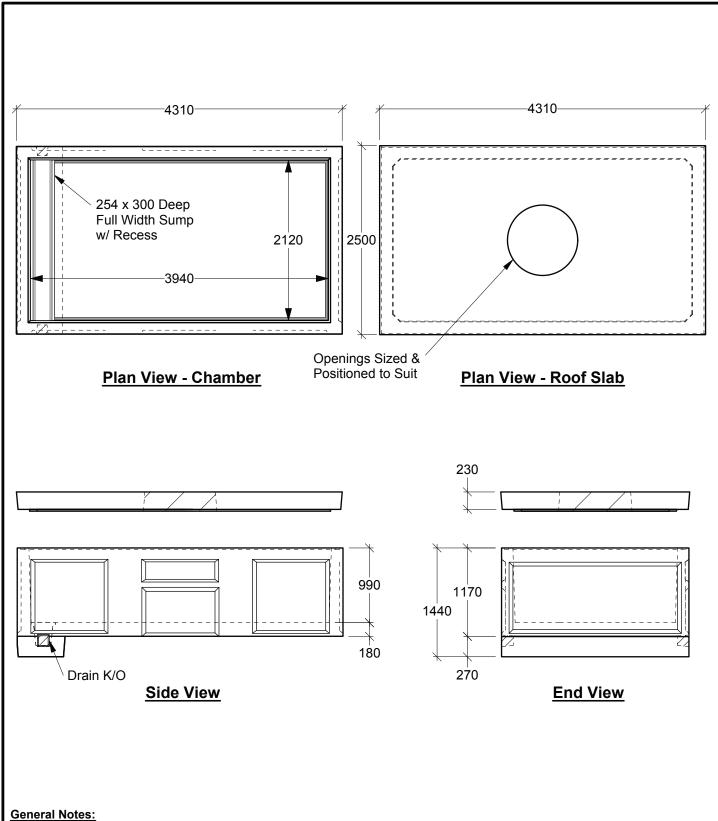


331822 Chamber - UBC Custom Power or Comm

Top: 17,000 lbs / 7,715 kgs Btm 16,000 lbs / 7,260 kgs Scale: 1:50 mm Rev: 25Nov02

Dwg#: VC33-20-UBC-C

19060 - 54th Avenue Surrey, B.C. V3S 8E5



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- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
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4211 Chamber w/ Roof Slab

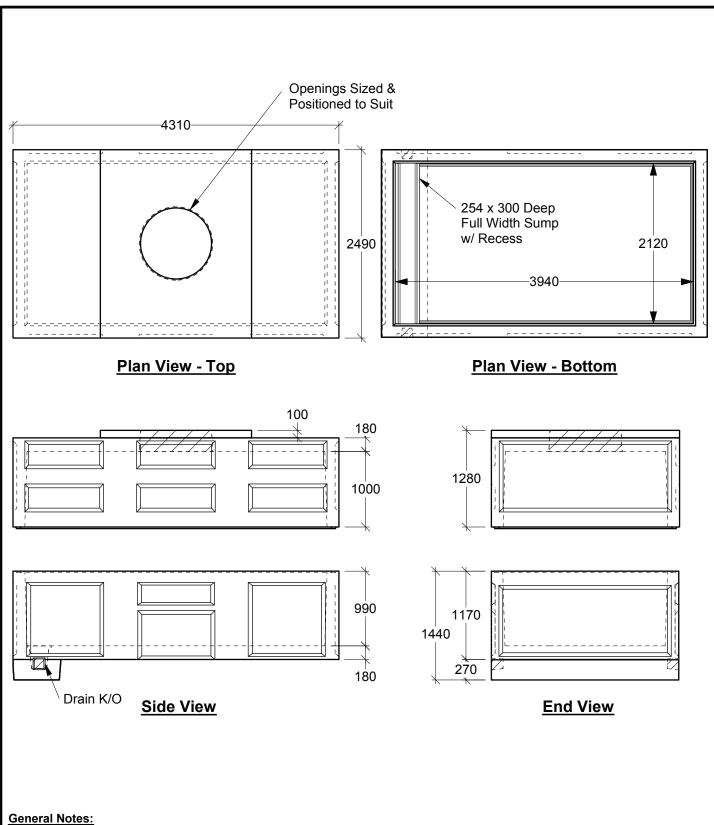
Chamber: 19,000 lbs / 9,030 kg Roof Slab: 13,890 lbs / 6,310 kgs

Dwg#: VC42-20-1000-C

Rev: 11Mar16

Scale: 1:50 mm

19060 - 54th Avenue



- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others

info@aeconcrete.com

· Site Installation, Backfilling & Suitability for Use is the responsibility of others



Top: 22,100 lbs / 10,025 kgs Btm: 21,200 lbs / 9,620 kgs

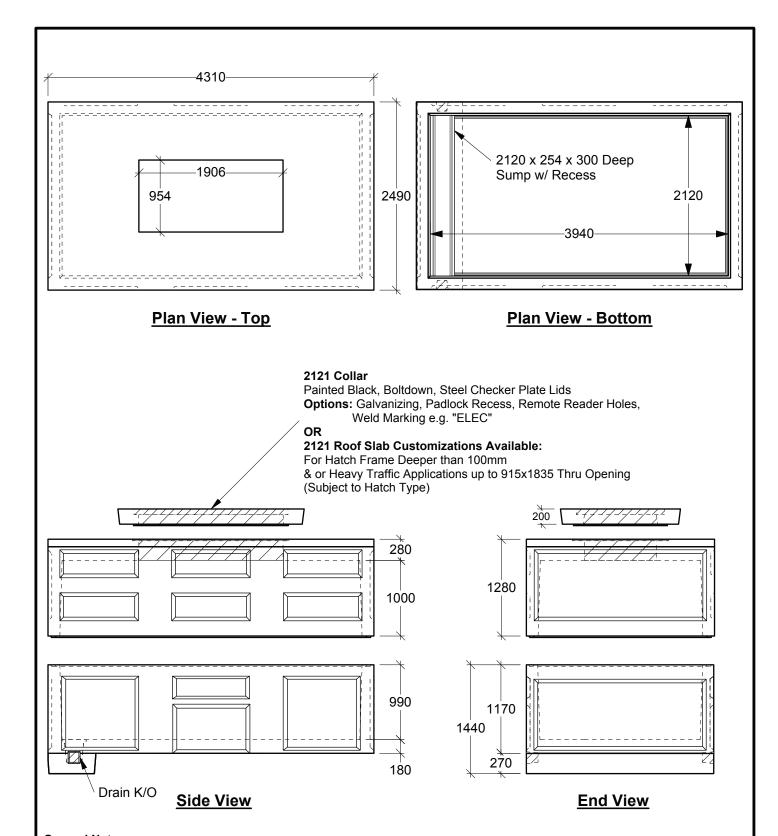
4212 Chamber

(402120)

Scale: 1:50 mm

Rev: 28Jun08

Dwg#: VC42-20-ZZZZ-C



- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- \cdot Designed for Pedestrian or Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others

AE CONCRETE

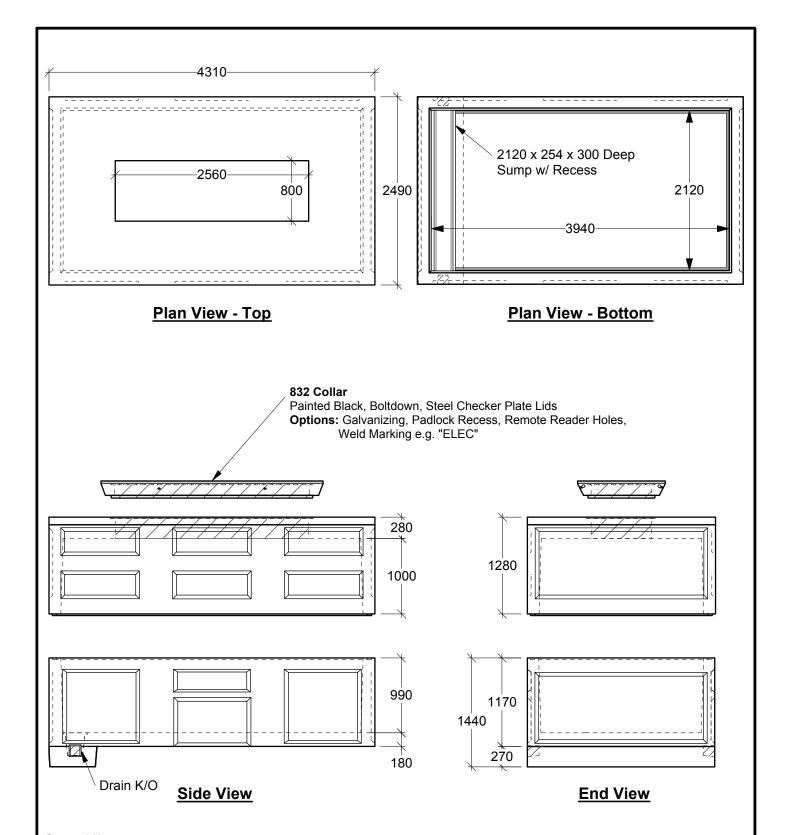
4212 Chamber w/ Opening for 2121 Roof Slab

(402120)

Top: 23,900 lbs / 10,845 kgs Btm: 21,200 lbs / 9,620 kgs Scale: 1:50 mm

Rev: 28Jun08

Dwg#: VC42-20-2121-C



- · Product manufactured in accordance with CSA A23.4
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- · Designed for Pedestrian or Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others

AE CONCRETE

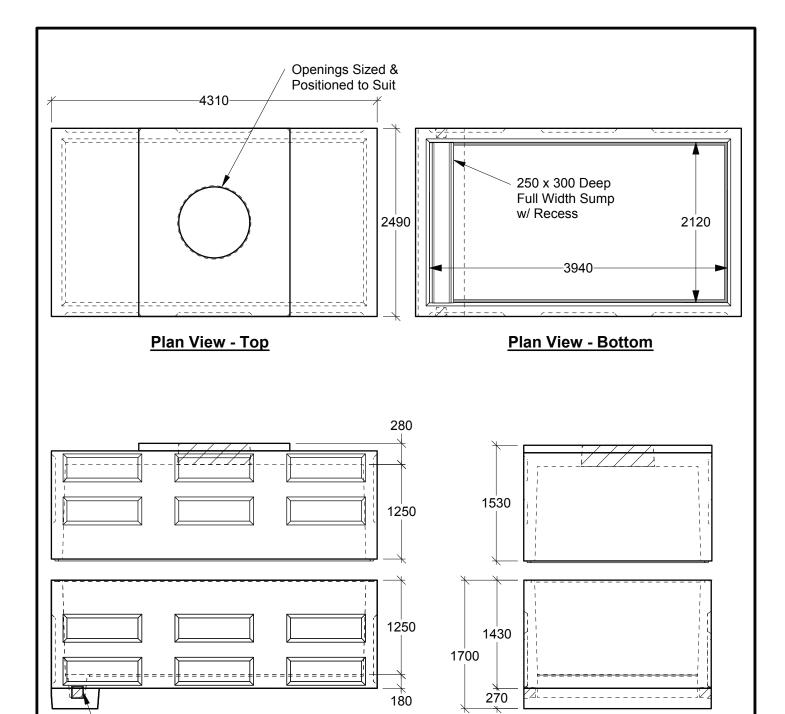
4212 Chamber w/ Opening for 832 Collar

(402120)

Top: 23,600 lbs / 10,705 kgs Btm: 21,200 lbs / 9,620 kgs Scale: 1:50 mm

Rev: 28Jun08

Dwg#: VC42-20-0832-C



- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)

Side View

- Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others



Drain K/O

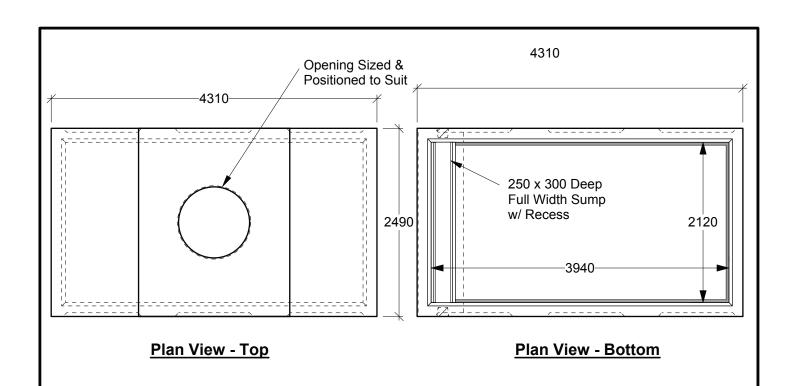
402125 Chamber

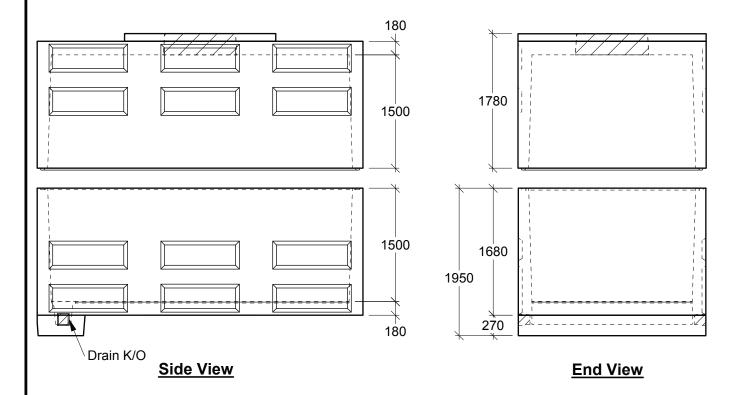
Top: 25,200 lbs / 11,430 kgs Btm: 23,600 lbs / 10,680 kgs Scale: 1:50 mm Rev: 16Jun13

Dwg#: **VC40-20-2500-C**

End View

19060 - 54th Avenue Surrey, B.C. V3S 8E5





- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others

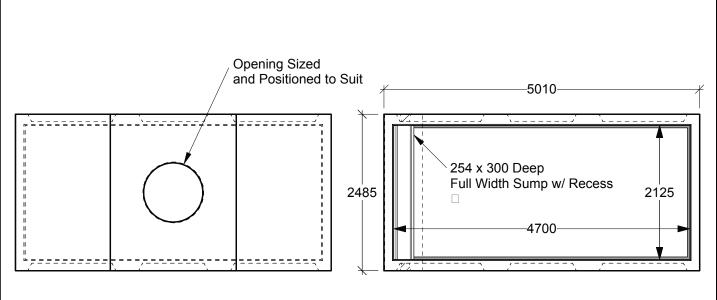


402130 Chamber

Top: 28,900 lbs / 13,120 kgs Btm: 12,400 lbs / 27,250 kgs Scale: 1:50 mm Rev: 15Jun13

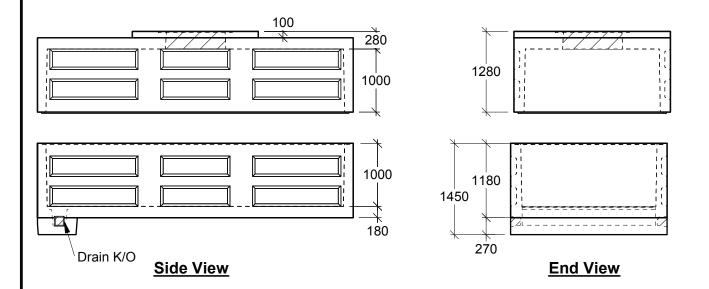
Dwg#: **VC40-20-3000-C**

19060 - 54th Avenue



Plan View - Top

Plan View - Bottom



- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others

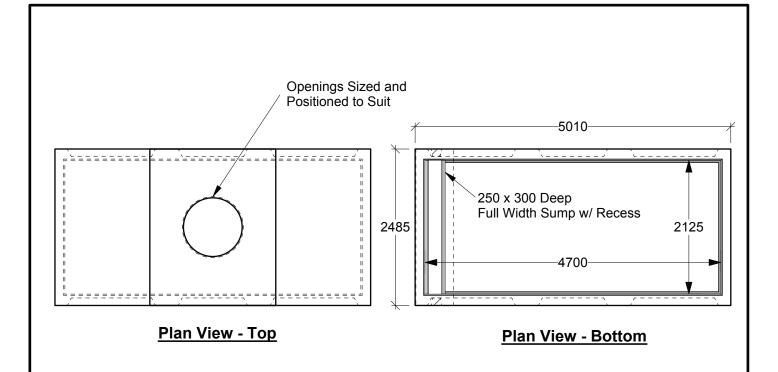


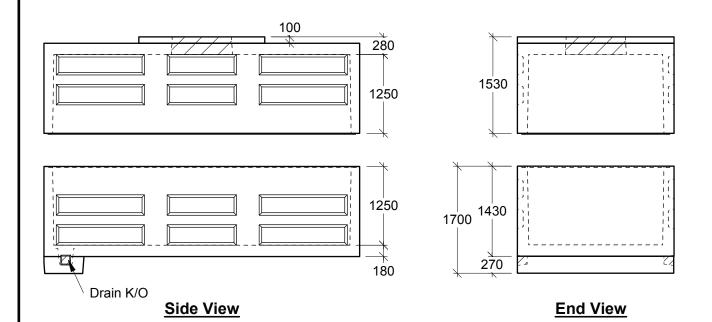
4712 Chamber

(472120)

Top: 24,200 lbs / 11,000 kgs Btm: 23,700 lbs / 10,300 kgs Scale: 1:60 mm Rev: 28Jun08

Dwg#: VC47-20-ZZZZ-C





- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others



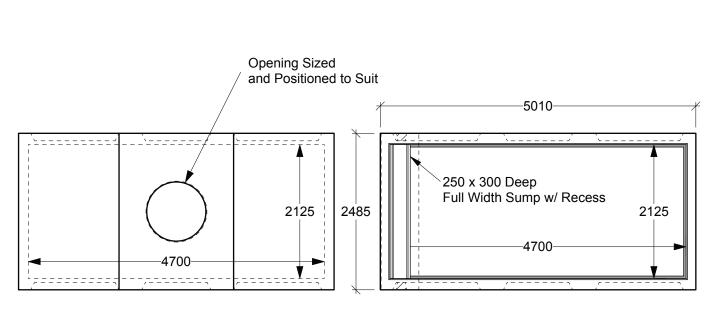
472125 Chamber

Top: 27,000 lbs / 12,240 kgs Btm: 25,300 lbs / 11,500 kgs Scale: 1:60 mm

Rev: 28Jun08

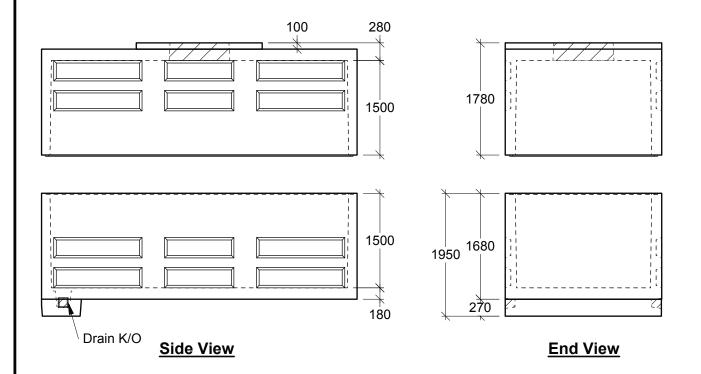
Dwg#: **VC47-20-2500-C**

19060 - 54th Avenue Surrey, B.C. V3S 8E5



Plan View - Top

Plan View - Bottom



- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others

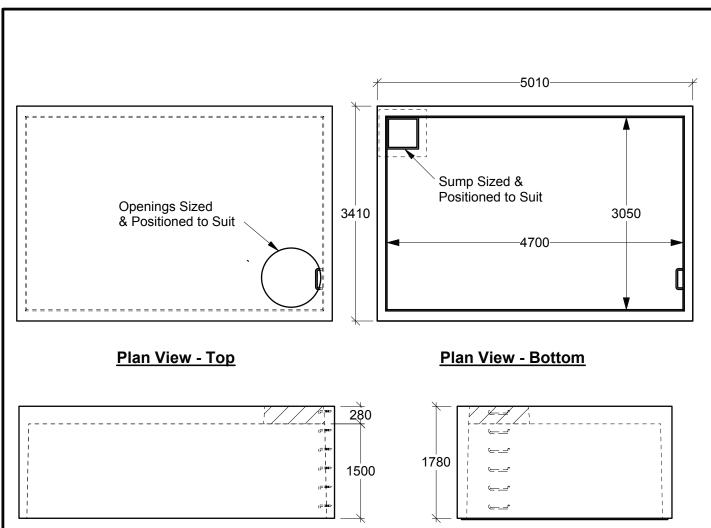


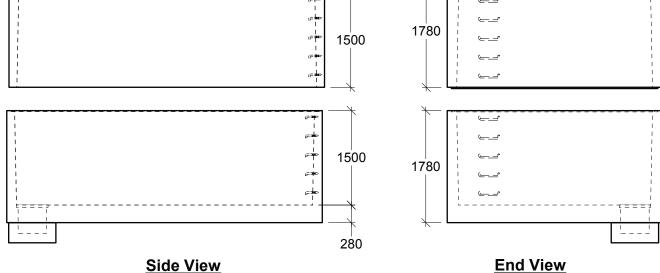
472130 Chamber

Top: 30,100 lbs / 13,700 kgs Btm: 28,500 lbs / 12,900 kgs Scale: 1:60 mm

Rev: 28Jun08

Dwg#: **VC47-20-3000-C**





- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others

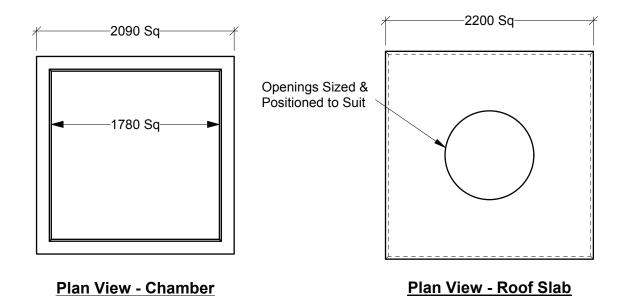


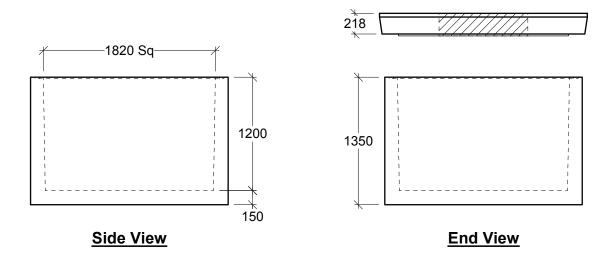
473030 Chamber

Top: 46,600 lbs / 21,140 kgs Btm: 48,300 lbs / 21,910 kgs Scale: 1:60 mm R

Rev: 27May16

Dwg#: **VC47-20-3030-C**





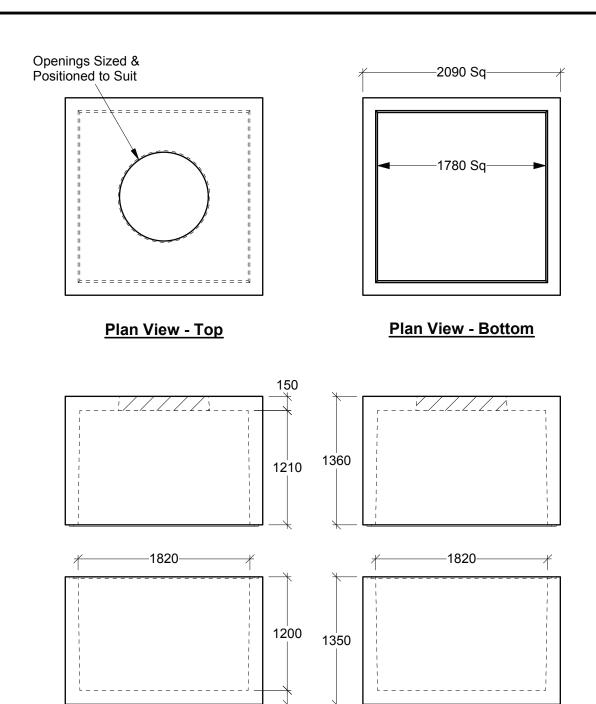
- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- \cdot Site Installation, Backfilling & Suitability for Use is the responsibility of others



181812 Chamber

Roof Slab: 6,100 lbs / 2,770 kgs Vault: 11,180 lbs / 5,080 kgs Scale: 1:40 mm Rev: 08May17

Dwg#: VC18-20-1200-C



150

General Notes:

- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- \cdot Site Installation, Backfilling & Suitability for Use is the responsibility of others

Side View

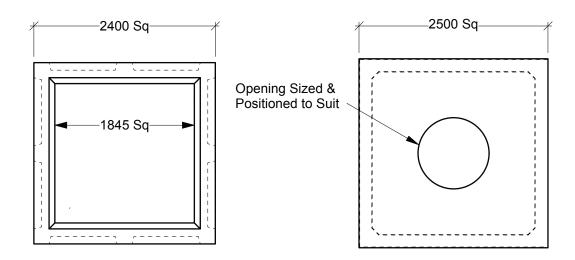


181824 Chamber

End View

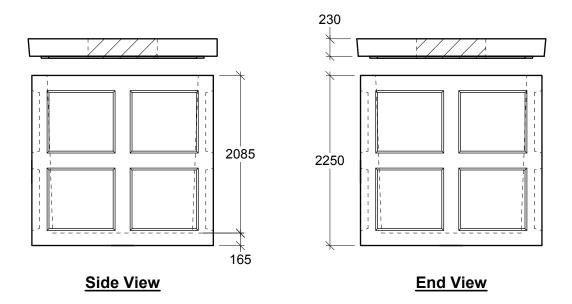
Top: 10,670 lbs / 4,840 kgs Btm: 11,180 lbs / 5,080 kgs Scale: 1:40 mm Rev: 08May17

Dwg#: **VC18-20-ZZZZ-C**



Plan View - Chamber

Plan View - Roof Slab



General Notes:

- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others



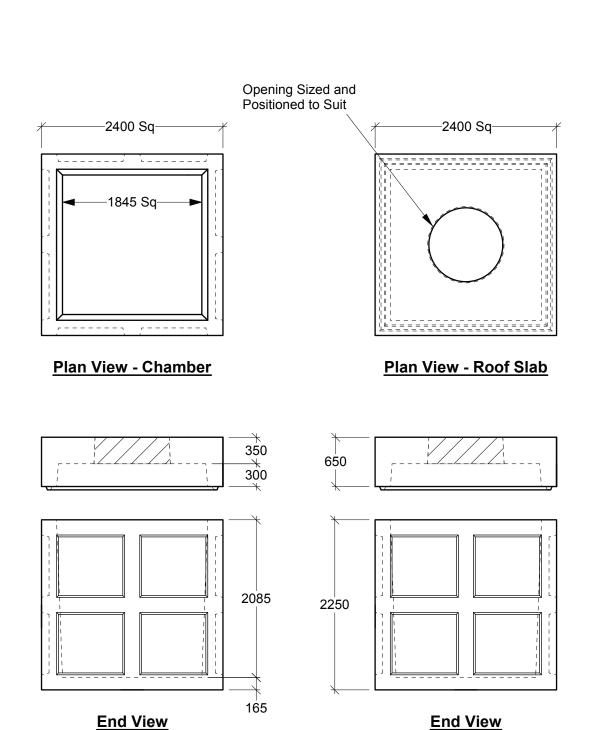
2221 Chamber w/ MH Entry Roof Slab

Chamber: 23,000 lbs / 10,430 kgs Roof Slab: 7,530 lbs / 3,420 kgs Scale: 1:50 mm

Rev: 28Jun08

Dwg#: **VC22-20-2221-C**

19060 - 54th Avenue Tel Surrey, B.C. V3S 8E5 info@



- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others



2221 Chamber w/ MH Riser Roof Slab

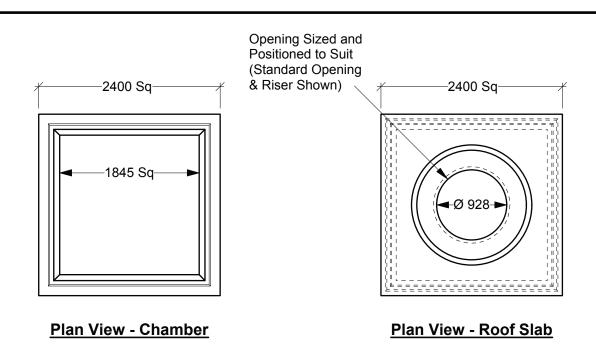
Chamber: 23,000 lbs / 10,430 kgs Roof Slab: 16,500 lbs / 7,480 kgs

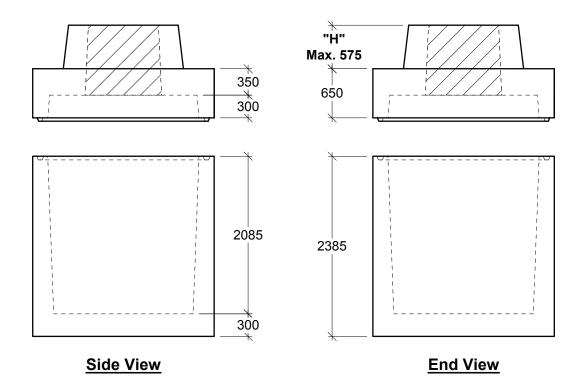
Dwg#: VC22-MH-2221-C

Rev: 28Jun08

Scale: 1:50 mm

19060 - 54th Avenue





- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Heavy Wheel Load Design: 125,000 lbs on 32"x32" Footprint
- \cdot Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others

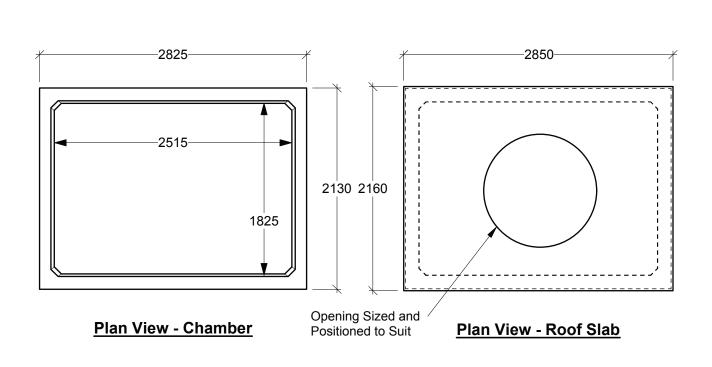


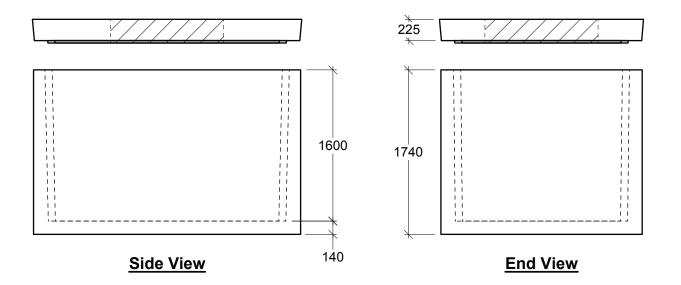
2221 DP Chamber w/ MH Riser Roof Slab

Chamber: 33,550 lbs / 15,220 kgs Roof Slab: 16,470 lbs / 7,480 kgs Scale: 1:50 mm Rev: 28Jun08

Dwg#: VC22-DP-2221-C

19060 - 54th Avenue Te Surrey, B.C. V3S 8E5 info@





- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others

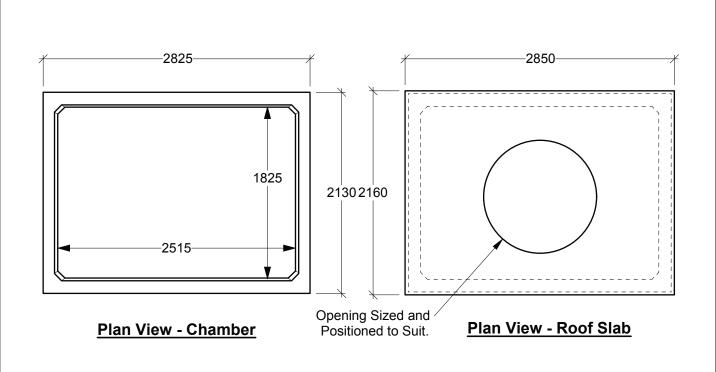


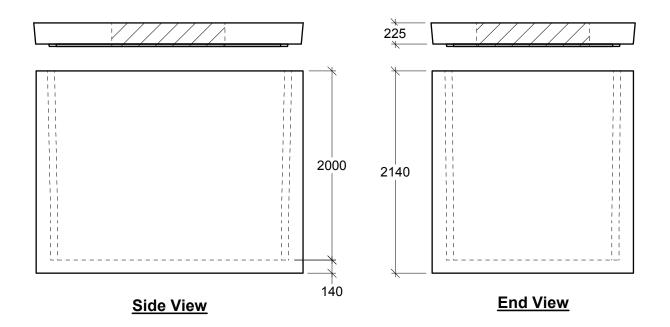
251815 Firemeter Chamber w/ MH Entry Roof Slab

Chamber: 16,600 lbs / 7,540 kgs Roof Slab: 8,240 lbs / 3,740 kgs Scale: 1:40 mm Rev: 28Jun08

Dwg#: VCFI-20-ZZZZ-C

19060 - 54th Avenue Surrey, B.C. V3S 8E5





- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others

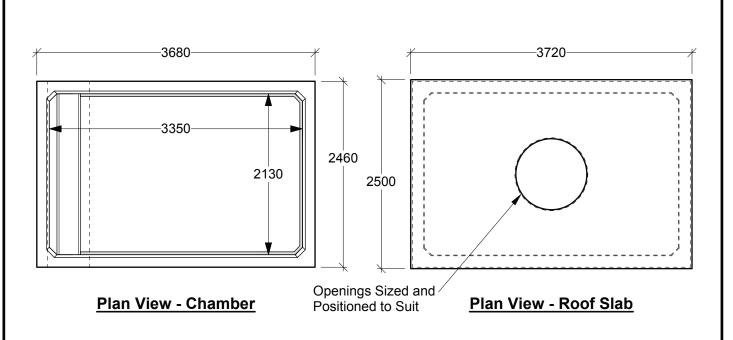


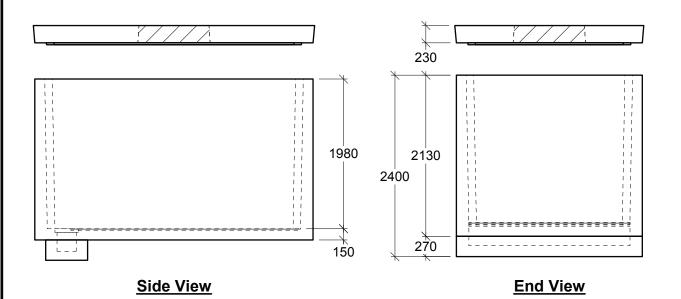
251820 Deep Firemeter Chamber

Chamber: 19,600 lbs / 8,880 kgs Roof Slab: 8,240 lbs / 3,740 kgs Scale: 1:40 mm Rev: 28Jun08

Dwg#: VCFI-20-DEEP-C

19060 - 54th Avenue Surrey, B.C. V3S 8E5





- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use H-20 Traffic Loading
- \cdot Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others

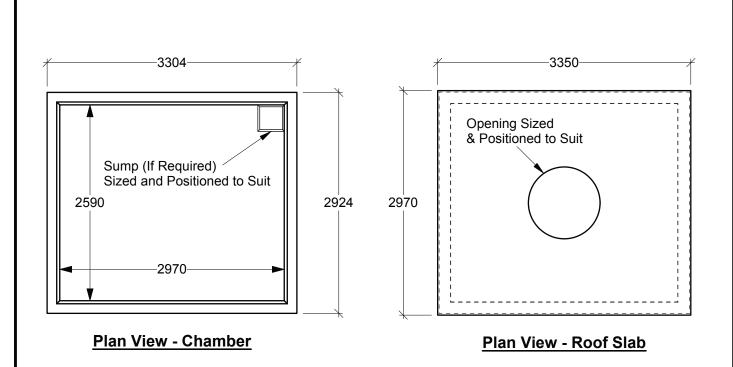


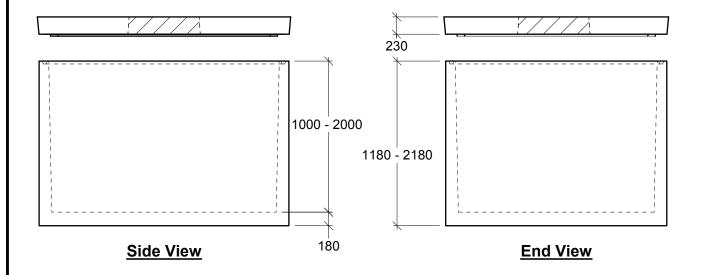
332120 Meter Chamber

Chamber: 26,700 lbs / 12,100 kgs Roof Slab: 11,800 lbs / 5,370 kgs Scale: 1:50 mm Rev: 28Jun08

Dwg#: VCMC-20-ZZZZ-C

19060 - 54th Avenue





19060 - 54th Avenue

Surrey, B.C. V3S 8E5

- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others



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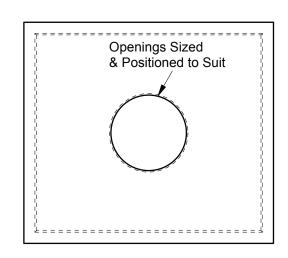
302610 Chamber

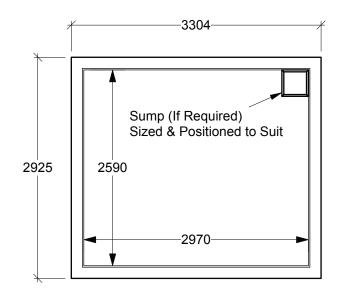
Chamber: 29,100 lbs / 13,200 kgs Roof Slab: 12,100 lbs / 5,850 kgs

Scale: 1:50 mm

Rev: 28Jun08

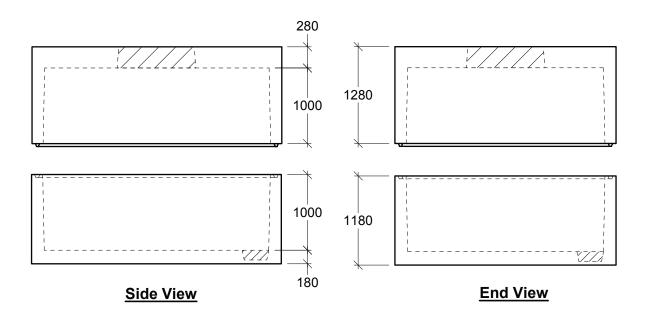
Dwg#: VC30-25-ZZZZ-C





Plan View - Top

Plan View - Bottom



- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others



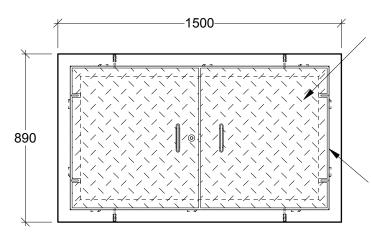
Top: 20,900 lbs / 9,470 kgs Btm: 20,000 lbs / 9,090 kgs **302620 Chamber**

Scale: 1:50 mm

Rev: 28Jun08

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Dwg#: **VC30-20-ZZZZ-C**



Painted Black, Boltdown, Steel Checker Plate Lids
Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

Galvanized Steel Frame

Plan View



7 Thru Opening

Side View

End View

General Notes:

- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Boulevard (Off-Road) Use H-20 Static Loading
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others



243 Collar & Lid Assembly

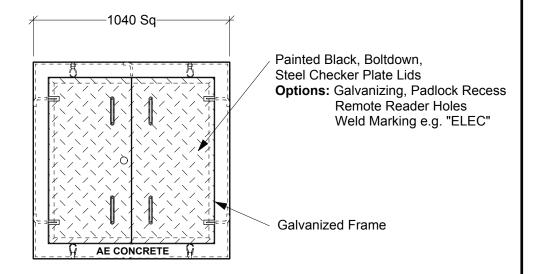
Collar & Lid: 610 lbs / 280 kgs

Scale: 1:20 mm

Rev: 22Jul13

Dwg#: **SVZZ-51-0243-C**

19060 - 54th Avenue





Side View

General Notes:

- ·Product manufactured in accordance with CSA A23.4
- ·Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use H-20 Static Loading
- ·Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- ·Site Installation, Backfilling & Suitability for Use is the responsibility of others



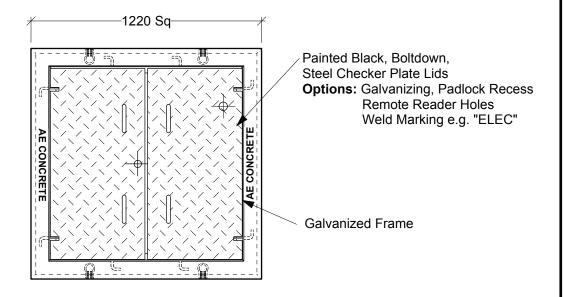
4040 Collar & Lid Assembly

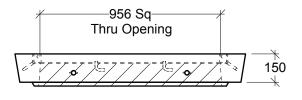
Collar & Lid: 480 lbs / 220 kgs

Scale: 1:20 mm

Rev: 22Jul13

Dwg#: SVZZ-51-4040-C





Side View

General Notes:

- Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use H-20 Static Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others



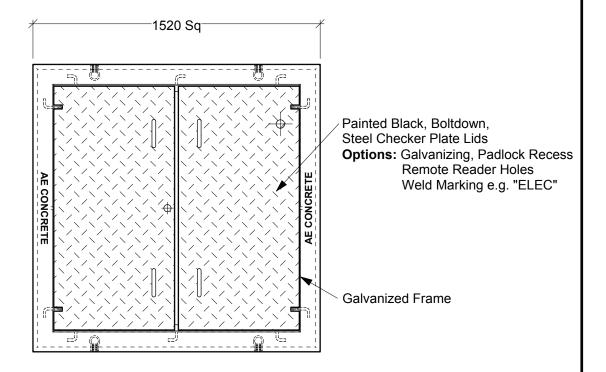
1.2m Collar & Lid Assembly

Collar & Lid: 485 lbs / 220 kgs

Scale: 1:20 mm

Rev: 28Jun08

Dwg#: SVZZ-51-1200-C





General Notes:

- Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use H-20 Static Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others



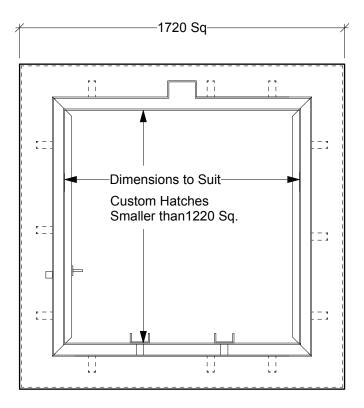
1.5m Collar & Lid Assembly

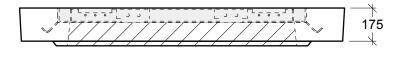
Collar & Lid: 930 lbs / 430 kgs

Scale: 1:20 mm

Rev: 16Jul15

Dwg#: **SVZZ-51-1500-C**





Side View

General Notes:

- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Boulevard (Off-Road) Use H-20 Static Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Customizations Available:

For Hatch Frame Deeper than 100mm & or Heavy Traffic Applications.

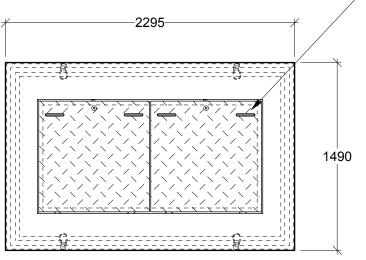


1.7m Collar w/ Hatch Cast In

Roof Slab (Solid): 3,110 lbs / 1,420 kgs Roof Slab (w/ Opening): 1,500 lbs / 690 kgs Scale: 1:20 mm Rev: 28Jun08

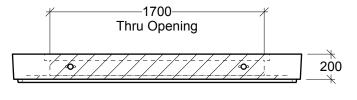
Dwg#: VC17-AA-ZZZZ-C

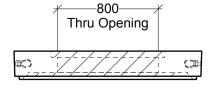
19060 - 54th Avenue Surrey, B.C. V3S 8E5



Painted Black, Boltdown, Steel Checker Plate Lids **Options:** Galvanizing, Padlock Recess Remote Reader Holes Weld Marking e.g. "ELEC"

Plan View





Side View

End View

General Notes:

- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use H-20 Static Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others



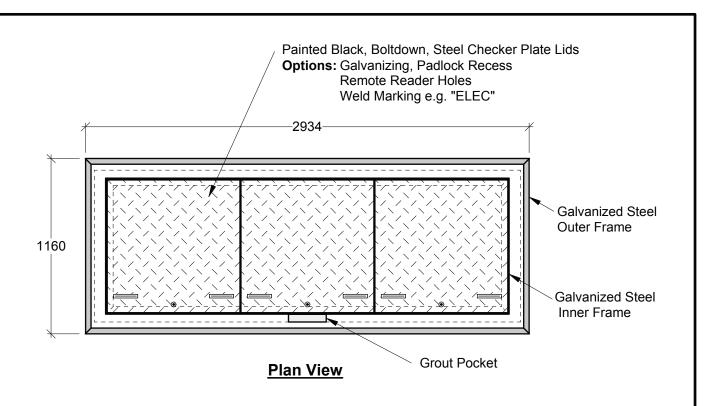
2121 Collar & Lid Assembly

Collar & Lid: 2,500 lbs / 1,145 kgs

Scale: 1:30 mm Rev: 28Jun08

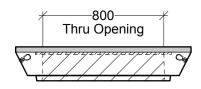
Dwg#: VC21-51-2121-C

19060 - 54th Avenue





Side View



End View

General Notes:

- · Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Boulevard (Off-Road) Use H-20 Static Loading
- · Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- \cdot Site Installation, Backfilling & Suitability for Use is the responsibility of others



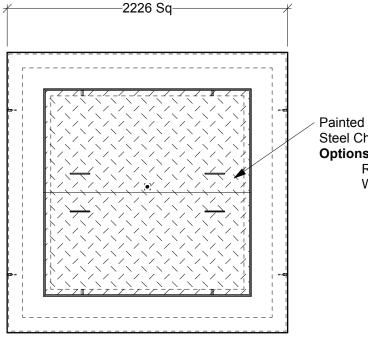
832 Comm Collar & Lwt Lid Assembly

Collar & Lid: 1,720 lbs / 790 kgs

Scale: 1:25 mm

Rev: 28Jun08

Dwg#: **SVZZ-55-0832-C**



Painted Black, Boltdown, Steel Checker Plate Lids **Options:** Galvanizing, Padlock Recess Remote Reader Holes Weld Marking e.g. "ELEC"

Plan View



Side View

General Notes:

- Product manufactured in accordance with CSA A23.4
- · Lift Points Provided (See Shop Drawing for Quantity & Locations)
- · Designed for Roadway Use H-20 Traffic Loading
- · Design and Provision of Thrust Blocks is the responsibility of others
- · Site Installation, Backfilling & Suitability for Use is the responsibility of others



2221 Collar & Lid Assembly

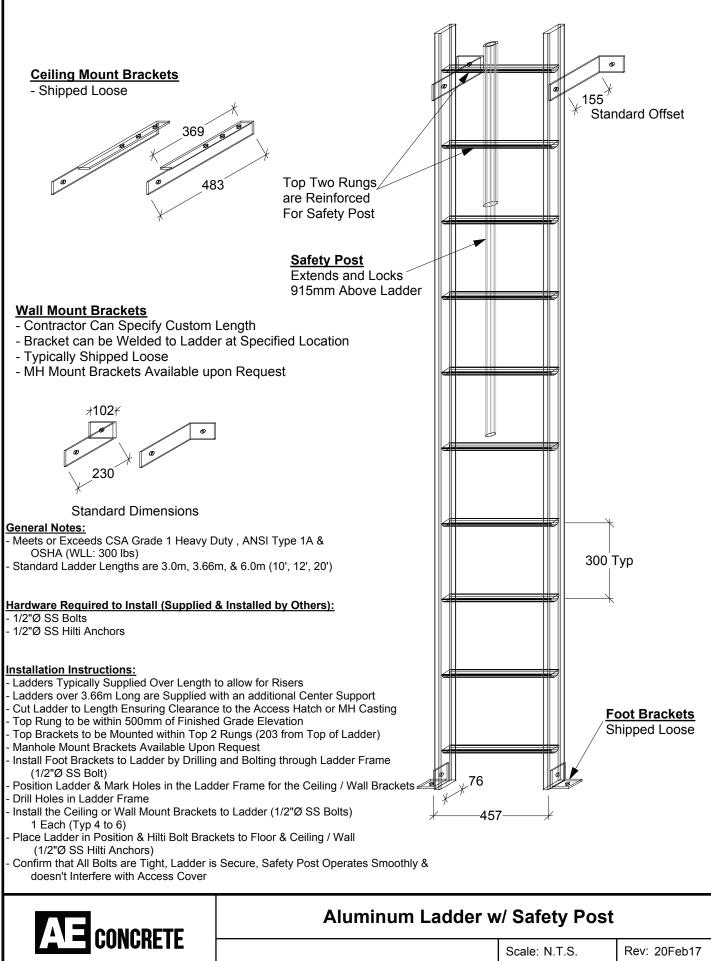
Collar & Lid: 3,150 lbs / 1,430 kgs

Scale: 1:30 mm

Rev: 20Mar14

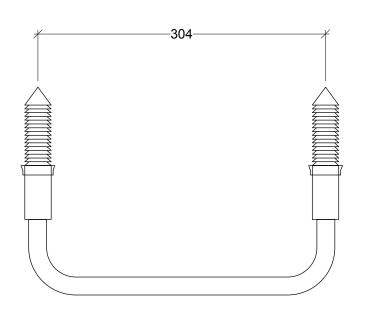
Dwg#: VC22-51-2221-C

19060 - 54th Avenue Surrey, B.C. V3S 8E5

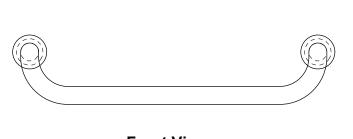


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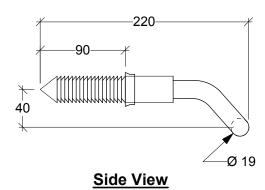
Dwg#: RSLA-MB-3050-C











AE CONCRETE

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19060 - 54th Avenue Surrey, B.C. V3S 8E5 **Aluminum Ladder Rung**

Rung: 0.75 lbs / 0.4 kgs

Scale: 1:4 mm

Rev: 28Jun08

Dwg#: VCLA-19AL-RUNG-C

Chamber Installation:

- 1. **This information is a guideline only -** Please ensure you comply with local safety codes and regulations. Locate and protect all above and below ground utilities prior to beginning installation.
- Review project specifications for the excavation and to select the appropriate base material, thickness & compaction for the site location as approved by the Project Engineer.
 (Typically 150-300mm Thick of 40mm minus Clear Aggregate Base)
- 3. Excavate for Chamber with reference to dimensions on the armtec shop drawings. For ease of installation, allow 300 to 600mm of Space on all sides of chamber walls. Allow adequate depth for base and bedding layers for any sump protrusions as well as risers and castings. Use shoring as required by WCB regulations.
- 4. Minimum 50mm thick Bedding Layer of 20mm Road Mulch suggested. Slope Bedding Material 0.5% to Sump End. Compact Bedding Layer for Perimeter of chamber footprint area only. (See Sketch) eg: Centre Area under chamber Not Compacted.
- 5. Double Check excavation depth to product assembled height, prior to placing bottom section.
- 6. Ensure Minimum Cable Length = 2 ½ times the Longest Distance Between Lift Points (a or b) or use spreader bar to lift vertically above lift points. Confirm distances for **Each** section. Place Bottom Section using the Lift Points detailed on the shop drawings.
- 7. Install components as required eg: Piping, Thrust Blocks Designed & Supplied by Others.
- 8. Install Joint Mastic in Perimeter Keyway.

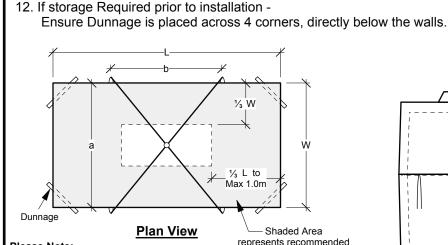
 Ensure keyway is clear of all debris before applying. Butt joints (NOT overlap) & knead together.
- 9. Place Top Section, Ensuring Correct Keyway Alignment.
- 10. Apply Non-Shrink Grout to Inside & Outside of Chamber Joint.
- 11. Backfill around chamber evenly and in standard lifts to the required grade.

Note: Contact armtec if the Depth of Bury increases by more than 300mm from the armtec Shop Drawings. Backfill should be of a good compacting material to prevent the occurrence of point loads.

No voids should remain between the vault walls and native soil of excavation.

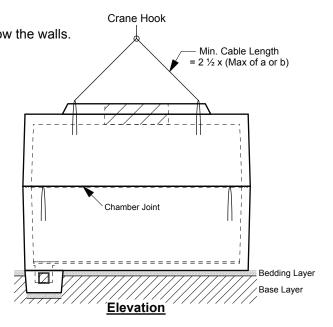
Compact Bedding Layer

All backfilling is the responsibility of the customer/contractor.



<u>Please Note:</u>
Standard armtec Chambers are designed for:

- H-20 Traffic Loads or CSA-S6 (CL-625)
- To a Maximum 2.0m Bury Below Grade
- Water Table at Grade
- Subject to Required Openings (Size, Quantity, Orientation & Location)
- Buoyancy Only Reviewed upon Request
- Thrust Blocks are to be Designed & Supplied by Others and the Loads Transfered to the Perimeter Ceiling, Walls & Floor.





Chamber Installation Template

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Scale: NTS

Rev: 07Jun17

Dwg#: VCZZ-INST-CH-C