

COMCORE™



**LIGHTWEIGHT
HEAVY DUTY LOCKING
MANHOLE COVERS**



**LIGHTWEIGHT
TRENCH COVERS**



**LIGHTWEIGHT
ROAD PLATES**



**LIGHTWEIGHT
SHORING SYSTEM**





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HUBBELL LENOIR CITY, INC. COMPLETE TERMS & CONDITIONS OF SALES

Hubbell Lenoir City, Inc. (hereinafter called HLC) hereby gives notice of its exception to any different or additional terms and conditions other than as stated herein. All sales are expressly made conditional on Buyer's assent to the following terms and conditions. Buyer's acceptance of the provisions of HLC's terms and conditions as recited herein shall be conclusively presumed upon Buyer's receipt of the goods, or if no written objection is received by HLC within fifteen (15) days from the date on HLC's order acknowledgment, whichever event shall first occur. These terms and conditions constitute the entire agreement between HLC and Buyer, and supersede other communications between the two parties, whether written or oral.

PRICING

Refer to appropriate Price Schedule, unless otherwise quoted.

TERMS

HLC's payment terms are net 30 days. Invoices will be dated the day of shipment. A service charge of 1-1/2% per month or, if such rate exceeds the maximum lawful rate, the maximum lawful rate shall be assessed on all past due accounts and shall be payable on demand.

QUOTATIONS

Unless otherwise stated in writing, HLC's quotations are subject to acceptance by the Buyer within thirty (30) days from the date of issue.

SALES AND SIMILAR TAXES

HLC's prices do not include any sales, use, excise or similar taxes. Consequently, in addition to the price specified herein, the amount of any present or future sales, use, excise or other similar tax applicable to the sale or use of the equipment hereunder, shall be paid by the Buyer, or in lieu thereof the Buyer shall provide HLC with a tax exemption certificate acceptable to the taxing authorities.

ACCEPTANCE OF ORDERS

All orders are subject to acceptance by HLC at its main office at 3621 Industrial Park Drive, Lenoir City, TN, USA, and to "HLC Complete Terms and Conditions of Sales". Any other terms proposed by Buyer are rejected unless expressly accepted in writing. Orders shall be deemed to be executed in the State of Virginia and shall be construed and performed in accordance with the Laws of that State. Acceptance of any order is subject to availability of product and the ability of HLC to deliver. Orders will be billed at prices in effect at time of shipment unless otherwise agreed.

SALES BY AGENTS

Sales by agents or through overseas representatives shall be at prices, terms and conditions of sale specified by HLC. All invoices will be issued by and payment remitted to HLC.

DELAY

HLC will use reasonable efforts to meet shipment or delivery dates specified by HLC, but such dates are estimates only. HLC shall in no event be liable for any delay or nondelivery if such delay or nondelivery is caused directly or indirectly by Acts of God, fire, flood, strike or lockout or other labor dispute, accident, civil commotion, riot, war, governmental regulation or order, whether or not it later proves to be invalid, or from any other cause or causes (whether or not similar to any of the foregoing) beyond HLC's control. In no case will HLC be liable for loss of profits or any special or consequential damages on account of any delay in delivery or nondelivery whether or not excused hereunder.

SHIPPING DEFERMENT

Buyer requests for shipping deferment must be approved by HLC and are subject to price negotiation.

LIMITED WARRANTY AND LIMITATION OF LIABILITY

MATERIAL: HLC warrants all products sold by it to be merchantable (as such term is defined in the Uniform Commercial Code) and to be free from defects in material and workmanship. Buyer must notify HLC promptly of any claim under this warranty. The Buyer's exclusive remedy for breach of this warranty shall be the repair or replacement, F.O.B. factory, at HLC's option, of any product defective under the warranty, which is returned to HLC within one year from the date of shipment. NO OTHER WARRANTY, WHETHER EXPRESS OR ARISING BY OPERATION OF THE LAW, COURSE OF DEALING, USAGE OF TRADE OR OTHERWISE IMPLIED, SHALL EXIST IN CONNECTION WITH HLC'S PRODUCTS OR ANY SALE OR USE THEREOF. HLC SHALL IN NO EVENT BE LIABLE FOR ANY LOSS OF PROFITS OR CONSEQUENTIAL OR SPECIAL DAMAGES INCURRED BY BUYER. HLC's warranty shall run only to the first Buyer of a product from HLC, from HLC's Buyer, or from an original equipment manufacturer reselling HLC's product, and is non-assignable and non-transferable and shall be of no force and effect if asserted by any person other than such first Buyer. This warranty applies only to the use of the product as intended by HLC and does not cover any modification, misapplication, or misuse of said product.

Effective November 1, 2009

LIMITED WARRANTY AND LIMITATION OF LIABILITY (continued)

APPLICATION: HLC does not warrant the accuracy of and results from product or system performance recommendations resulting from any engineering analysis or study. This applies regardless of whether a charge is made for the recommendation, or if it is provided free of charge. Responsibility for selection of the proper product of application rests solely with the purchaser. In the event of errors or inaccuracies determined to be caused by HLC, its liability will be limited to the reperformance of any such analysis or study.

PURCHASER INSPECTIONS: Tests, inspections and acceptance of all material must be made at the factory. Purchasers' inspectors are welcome at the factories and are provided with the necessary facilities for carrying out their work. Name and phone number of who should be contacted for inspection should be given to HLC no later than two weeks prior to scheduled shipment date.

LIMITATION OF LIABILITY: IN NO EVENT, WHETHER AS A RESULT OF BREACH OF CONTRACT OR WARRANTY OR ALLEGED NEGLIGENCE, SHALL HLC BE LIABLE FOR SPECIAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS OR REVENUE, LOSS OF USE OF THE EQUIPMENT OR ANY ASSOCIATED EQUIPMENT, LOSS OF CAPITAL, COST OF SUBSTITUTE EQUIPMENT, FACILITIES OR SERVICES, DOWNTIME COSTS, OR CLAIMS OF THIRD PARTIES OF THE BUYER FOR SUCH DAMAGES. Any claim by Buyer for breach of the foregoing warranty shall be deemed waived by Buyer unless submitted to HLC in writing within thirty (30) days from the date Buyer discovered, or by reasonable inspection should have discovered the alleged breach. Any cause of action for breach of the foregoing warranty shall be brought within one year after the cause of action has accrued.

FREIGHT ALLOWANCE and F.O.B. POINT

All shipments are F.O.B. origin. Risk of loss and title of goods shall pass to Buyer upon delivery to the designated carrier. Freight is prepaid and allowed on all shipments of products with a net order value of \$5,000 and above to destinations within the Continental U.S.A and Canada. Shipments to Alaska and Hawaii are F.O.B. Pacific Coast docks, collect beyond. Tool trailers will be F.O.B. HLC's dock – no freight allowed.

HLC reserves the right to route all qualified freight allowed shipments via least expensive surface route within the Continental United States and Canada. Buyer will assume all charges for transportation specified via more expensive means. Acceptance of a specified routing does not constitute a guarantee of ship date, transit time or arrival date. HLC will not be responsible for any cartage or storage charges at destination.

HLC's responsibility for exception-free delivery ceases when the transportation company receives shipment in good condition. Claims for loss or damage must be reported directly to the carrier. HLC's willingness to assist does not indicate liability for claim or replacement.

PARTIAL RELEASE

If an order has multiple releases specified by the Buyer, each release will be treated as individual orders, relative to freight allowance and minimum billing.

BACK ORDERS

Back orders that are the responsibility of HLC will be shipped F.O.B. factory or point of shipment with freight prepaid and allowed via the most cost effective method, providing the original order qualified for freight allowance.

MINIMUM BILLING

Standard Orders -- \$400 net per order. Minimum waived on hardware only orders. \$40 surcharge for below minimum orders.

ORDER ADD-ON POLICY

HLC's "Add-On" policy allows you to add items to an existing unshipped order for up to fifteen (15) days from the entry date of the original order.

DELIVERY SCHEDULE

Based on estimated shipping dates, HLC makes every effort to meet Buyer's shipping requirements. HLC will not assume liability because of delayed shipment for any reason. HLC's responsibility ceases upon acceptance of shipment by carrier.

CANCELLATIONS

Cancellation of an order for current stock product requires a minimum of five (5) days' notice prior to actual ship date. Stock item orders shipped after cancellation notice is received, but before expiration of the five-day requirement, will be subject to all standard Returned Goods conditions.

Cancellation on non-stock items may be made only if no work has been performed or material purchased. If cancellation is requested after work is in progress, there will be a cancellation charge as established by HLC.

Orders may not be cancelled unless HLC gives its written consent, and then only upon agreement as to applicable cancellation charges.

Effective November 1, 2009



RETURNED GOODS

GENERAL CONDITIONS applying to all transactions:

1. *Merchandise is not returnable without the written consent of HLC.*
2. *Request for permission to return merchandise must be made in writing within one year from date of shipment, and Buyer must provide original HLC invoice number.*
3. *Material to be returned must be considered standard material by HLC.*
4. *HLC reserves the right to refuse returns of any special or made-to-order material, regardless of condition.*
5. *All returned goods must be in excellent, resaleable condition and packaged in the original carton. Products will be inspected upon return; and any service or repair needed to place them in first class, saleable condition will be charged and added to the restocking charge.*
6. *A 25% restocking charge will be deducted from all credits issued on authorized returns.*
7. *Return Goods Authorization (RGA) Packing List, supplied by the factory, must accompany the return shipment.*
8. *Return freight must be prepaid. Material must be received by HLC within sixty (60) days of issuance of RGA.*
9. *Net value of the return must not be less than \$250.*
10. *HLC reserves the right to deduct for any damage sustained in transit.*
11. *Unauthorized returns will be refused. Equipment returned without proper authorization from HLC will, at the sole option of HLC, be returned to the Buyer freight collect, or scrapped immediately with no issuance of credit. Unauthorized material included in a return will not be credited.*

BROKEN PACKAGE POLICY

Shipments will be made in standard package quantities or multiples thereof. HLC Customer Service will notify the Buyer of any orders that do not comply. The Buyer must authorize an adjustment to comply with standard package quantities before the order will be entered.

QUOTATION PRICE PROTECTION

All prices shown in the price lists are subject to change without notice.

All quotations on special products or modifications to catalog items are binding only if confirmed in writing by the factory for the period shown on the quotation.

Price protection will be provided for a period of thirty (30) days from date of quotation from HLC.

ORDERS

All orders are taken and prices quoted only with the understanding that each order shall be subject to the acceptance of HLC at its principal office upon such terms as we may specify when order is received.

Prices to cover amount of any sales or excise tax which now or hereinafter may be imposed by any taxing authority upon this merchandise or the sale or manufacture thereof.

PRODUCT SPECIFICATION

HLC reserves the right to discontinue items, modify designs, and change specifications or prices without incurring obligation.

INVOICING

All invoices are due and payable per the standard terms stated herein. In the case of an apparent discrepancy in a line item charge, Buyer is obligated to advise HLC Customer Service in writing of the nature of the claimed discrepancy within five (5) days of receipt of the invoice. This includes all requests for proof of delivery. A claim of discrepancy does not relieve Buyer of the absolute obligation to pay the remaining balance of the invoice in accordance with the standard terms of payment. HLC, after review, will have sole discretion to resolve the discrepancy; and the Buyer expressly agrees to abide by HLC's decision. HLC will promptly advise Buyer of its decision regarding any disputed items or charges.

OSHA

HLC warrants that at time of shipment, the equipment will conform to the applicable occupational safety and health standards promulgated pursuant to the Federal Occupational Safety and Health Act of 1970, which are in effect on the date that HLC enters its acknowledgment of Buyer's order. The Buyer's exclusive remedy and HLC's liability for breach of this warranty is limited to replacement of the nonconforming equipment.

FAIR LABOR STANDARDS ACT AS AMENDED

HLC represents that any goods to be delivered hereunder will be produced in compliance with the requirements of the Fair Labor Standards Act of 1938, as amended.

NOTE

These Terms and Conditions supersede all those published and issued previously by Hubbell Lenoir City, Inc., Quazite, CDR Systems, CDR, Polycast, Electrimold, Custom Composites, Western Power Products, Comcore, Hotbox, Windbreaker and Jandec.

Effective November 1, 2009



COMCORE™

LIGHTWEIGHT, HEAVY DUTY LOCKING COVERS

LIGHT ENOUGH FOR 1 PERSON TO LIFT SAFELY...
...STRONG ENOUGH TO CARRY HEAVY TRAFFIC



Weights approx. 5 lb. per sq. ft.

National standard and utility covers
24"-50", with or without frames.



Replace heavy metal covers -- on and off road.
Provide quick and easy access--
with lock down security.
Prevent rattling and noise.



Custom covers can be retrofit
to existing frame



Eliminate
painful back strain

COMCORE™

COMCORE MATERIAL SPECIFICATIONS

CONSTRUCTION

Patented fiberglass composite structure. U.S. Patents #4,801,483 and #5,305,568.

DIELECTRIC CHARACTERISTICS

Breakdown 55,000 volts

SURFACE

Skid resistant diamond pattern with a coefficient of friction 0.65.

UV STABILITY

UV impervious; color might fade over time, but no structural effect.

CORROSION PROOF, NON-SPARKING

The Comcore Circular Access Covers are non-metallic. As a result, they will not corrode when exposed to water or spark when exposed to gases.

CHEMICAL RESISTANCE

Highly resistant to fuels, oils and corrosive chemicals as well as a wide range of acids, alkalis, solvents and most other chemicals. Not affected by asphalt, concrete or other roadway materials or chemicals.

COMCORE LOAD RATING

TRENCH COVERS and REPLACEMENT COVERS

Rating	Maximum Load, Lbs.	Test Load Lbs.	Applications
Tier 15	15,000	22,500	Designed for applications where covers are subject to occasional non-deliberate heavy vehicular traffic with pneumatic tires, such as controlled access facilities and fenced substations.
Tier 8	8,000	12,000	Designed for controlled applications with a safety factor for non-deliberate vehicular traffic with pneumatic tires, such as sidewalks and residential areas.
Pedestrian	450 psf	3,000	Designed for controlled applications with a safety factor for occasional non-deliberate vehicular traffic with pneumatic tires, such as foot traffic and yards where residential size lawn mowers are used.

Note: If load rating or applications other than those shown is required please contact customer service.

CIRCULAR ACCESS COVERS

Rating	Maximum Load, Lbs.	Test Load Lbs.	Applications
Tier 15	15,000	22,500	Designed for applications where covers are subject to occasional non-deliberate heavy vehicular traffic with pneumatic tires, such as Manholes outside paved traffic lanes and behind curbs.
Tier 8	8,000	12,000	Designed for controlled applications with a safety factor for non-deliberate vehicular traffic with pneumatic tires, such as Manholes behind curbs and in sidewalks.
Pedestrian	450 psf	3,000	Designed for controlled applications with a safety factor for occasional non-deliberate vehicular traffic with pneumatic tires, such as landscaped areas where residential size lawn mowers are used.

Note: If loading rating or applications other than those shown is required please contact customer service.



COMCORE CIRCULAR ACCESS COVERS

COMCORE STANDARD COVER SIZES

Comcore standard circular access covers come in sizes ranging from 24" dia. to 50 1/4" dia. providing clear openings from 22 1/4" to 48". Available with and without frames.

COMCORE CUSTOM OR RETROFIT COVERS

Custom cover sizes available to fit previously installed frames.

WEIGHT

The weight of a Comcore Circular Access Cover can vary from 4.2 lbs. to 8.0 lbs. per sq. ft. depending on Cover thickness and loading requirements.

LOCK-DOWN

Standard Comcore Access Covers lock down directly to the frame using stainless steel pentahead bolts for security. Covers that are being retrofit to installed frames can be locked down using our bar or cam lock-downs with stainless steel pentahead bolts for security.

GASKETING

Comcore Circular Access Covers are gasketed on the bottom to eliminate noise, help prevent water seepage and allow the Comcore cover to seat properly when it has been retrofit to a worn frame. The gaskets are fixed with a taped backing so that they can be easily replaced in the field if necessary.

WATERPROOFING

If necessary Comcore Circular Access Covers can be sealed to completely prevent water entry into the vault. This is non-standard and involves extra cost.

CORROSION PROOF, NON SPARKING

Comcore Circular Access Covers are non-metallic. As a result, they will not corrode when exposed to water or spark when exposed to gases.

RF WAVE TRANSPARENCY

Comcore covers are transparent to radio waves at frequencies up to 900 megahertz. The use of a special antennae permits cellular monitoring and control of underground devices.

SURFACE

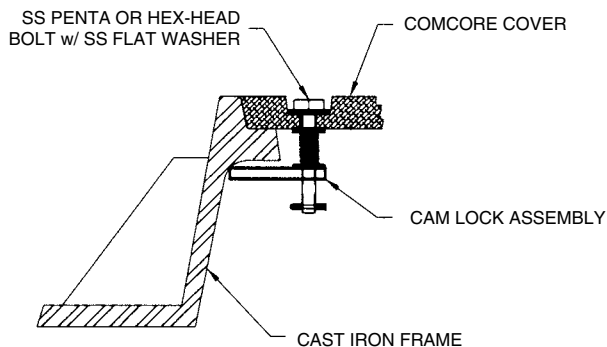
Comcore Circular Access Covers have a diamond pattern, skid-resistant surface that meets the most stringent of state D.O.T. requirements.

COLOR

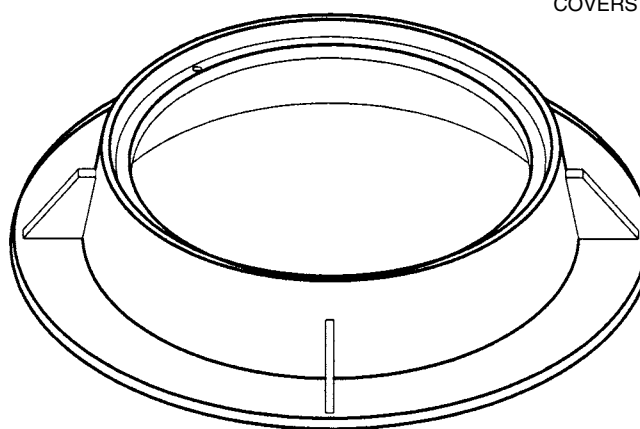
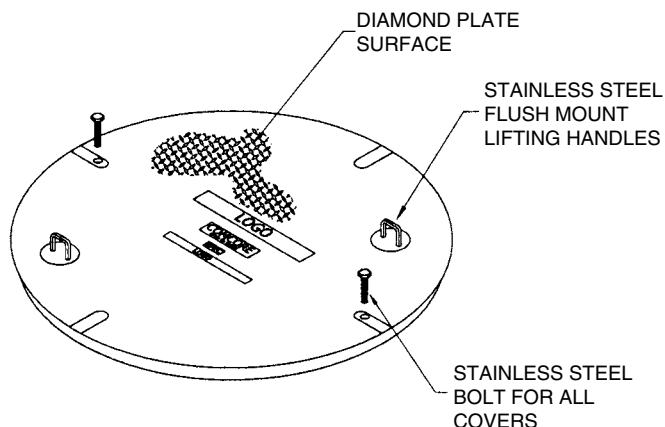
The standard color for Comcore Covers is black. Additional, non-standard, colors are available at a slight increase in cost depending on the color required and volume.

SHAPE

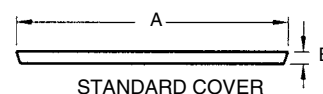
Comcore Access Covers are circular in shape, tapered on the sides with a flat back. The depth of the Comcore Cover must, therefore, be equal to the seating depth in the frame.



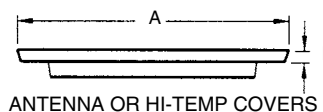
OPTIONAL CAM LOCK ASSEMBLY



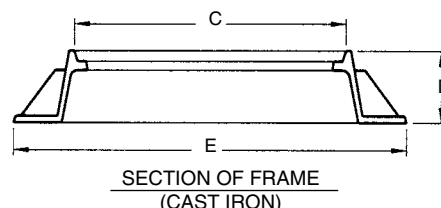
TYPICAL COVER & FRAME



STANDARD COVER



ANTENNA OR HI-TEMP COVERS



SECTION OF FRAME (CAST IRON)

Assemblies

Assembly Number	Old Assembly Number	Diameter	Weight LBS.
MA240004	NS2420/F4	24	134
MA240007	NS2420/F7	24	183
MA260004	NS2620/F4	26	170
MA260007	NS2620/F7	26	186
MA260009	NS2620/F9	26	251
MA320004	NS32220/F4	32	187
MA320065	NS3220/F65	32	282
MA360085	NS3620/F85	36	445
MA380003	NS3820/F3	38	190
MA380006	NS3820/F6	38	370
MA380008	NS3820/F8	38	419
MA500003	NS5020/F3	50 1/4	248
MA500006	NS5020/F6	50 1/4	406
MA500008	NS5020/F8	50 1/4	446
MA320006	UC3120D/F6	31 15/16	425

Covers

Cover Number	Old Cover Number	A Dia.	B Dia.	Weight LBS.
MC240015	NS2420	24	1 1/2	18
MC260015	NS2620	26	1 1/2	21
MC320015	NS3220	32	1 1/2	32
MC360015	NS3620	36	1 1/2	40
MC380002	NS3820	38	2	50
MC500002	NS5020	50 1/4	2	86
MC310015	UC31200	31 15/16	1 1/2	32

Frames

Frame Number	Old Frame Number	C Dia.	D Dia.	E Dia.	Weight LBS.
F424	F4-24	24 1/4	4	34	116
F724	F7-24	24 1/4	7	34	165
F426	F4-26	26 1/4	4	36	149
F726	F7-26	26 1/4	7	36	165
F926	F9-26	26 1/4	9	36	230
F432	F4-32	32 1/4	4	38	155
F6532	F65-32	32 1/4	6 1/2	46	250
F8536	F85-36	36 1/4	8 1/2	45	405
F338	F3-38	38 1/4	3	46	140
F638	F6-38	38 1/4	6	46	369
F838	F8-38	38 1/4	8	46	520
F350	F3-50 1/4	50 1/2	3	56 1/2	162
F650	F6-50 1/4	40 1/2	6	56 1/2	320
F850	F8-50 1/4	50 1/2	8	56 1/2	360
F332	F6-31 15/16	32 3/16	6	46	393

COMCORE™

LIGHTWEIGHT, HEAVY DUTY TRENCH COVERS

SYSTEM RELIABILITY

The light weight combined with the tremendous strength of Comcore Trench Covers translates into speed, productivity and increased system reliability. Not only are Comcore Trench Covers light and easy to handle, but they will carry heavy truck or crane traffic.



SMALLER, MORE PRODUCTIVE CREWS

Lightweight Comcore Trench Covers allow 1 person to gain access to cable trenches faster and easier! There's no need to have 2 to 3 people involved just because they have to move heavy covers to gain access. You don't need special equipment, either. Even better, the craftsman doesn't spend a lot of time, effort and energy gaining access to the trench. That's reserved for completing the job. With the light weight and strength of Comcore the work gets completed more rapidly and your system is up and running more quickly.

REDUCE HAZARDS, IMPROVE APPEARANCE

You don't have to put up with the hazards and appearance of buckling, cracking, and rusting covers (see inset). Even under continuously heavy loading Comcore Trench Covers do not retain a bend so tripping hazards are minimized. They don't require painting either.

Because they are lightweight with slightly rounded corners, Comcore Trench Covers don't have a cutting edge. If the Comcore Cover is dropped, no one is going to lose a finger or a toe and the cable isn't going to be cut. In short, with Comcore Covers, your yard is always safer and looks good.



COMCORE™

Comcore is a patented lightweight, composite structural material that was originally developed as a replacement for a 1" thick steel road plate. There are two styles of Comcore trench covers available.

INSET COVERS

Comcore Trench Covers that are to be inset into the trench are available in square or rectangular shapes with straight sides, and are typically about 3 in. deep. These covers are for trenches that have an inset ledge so that the surface of the cover is at grade level.



"LEDGE" COVERS

Comcore Trench Covers are also available for trenches that have straight side walls with no inset seat so that the cover must rest on the outside trench walls. The Comcore "Ledge" covers have 1" x 1" positioning bars on their underside. These positioning bars parallel the trench walls to prevent sideways movement.

Covers are available in standard sizes or can be custom fit to your frame or dimensions.



LIFTING A COMCORE TRENCH COVER IS EASY

Because of their light weight the Comcore Trench Covers don't require the use of manhole hooks. For fenced-in area Comcore Trench Covers have 2 permanent, drop-in handles that are the same color as the Cover and flush with the Cover surface. The craftsman lifts the Cover by pulling up on 1 or both handles. Also available with either hold-down or lock down security.



SUPERIOR SURFACE

Comcore Covers have an abrasion resistant surface with a skid resistant diamond plate pattern.

NO METAL OR CONCRETE TO WEAR

Comcore Covers contain no metal or concrete and have a 55KV dielectric strength so that they don't attract or accumulate static electrical charge like metal covers. Because they are neither metal or concrete Comcore covers will not weather, rust, crumble, corrode or crack. They require no maintenance. There is no scrap value.

CUSTOM COLORS AND IDENTIFICATION AVAILABLE.

Although the standard colors for the Comcore Covers are black, brown and grey, they can be manufactured in a variety of colors to designate utility type. Covers can be identified with owner's name and the type of service being covered.



TRENCHES AREN'T ALWAYS STRAIGHT

Trenches don't always end at just the right place to accept a full cover, and they're not always straight. To accommodate odd sizes and strange angles we customize covers to fit your trenches regardless of shape.

Custom covers are available to accommodate trench terminus, pull boxes or bends.



NEW CONSTRUCTION OR REHABILITATE EXISTING TRENCHES

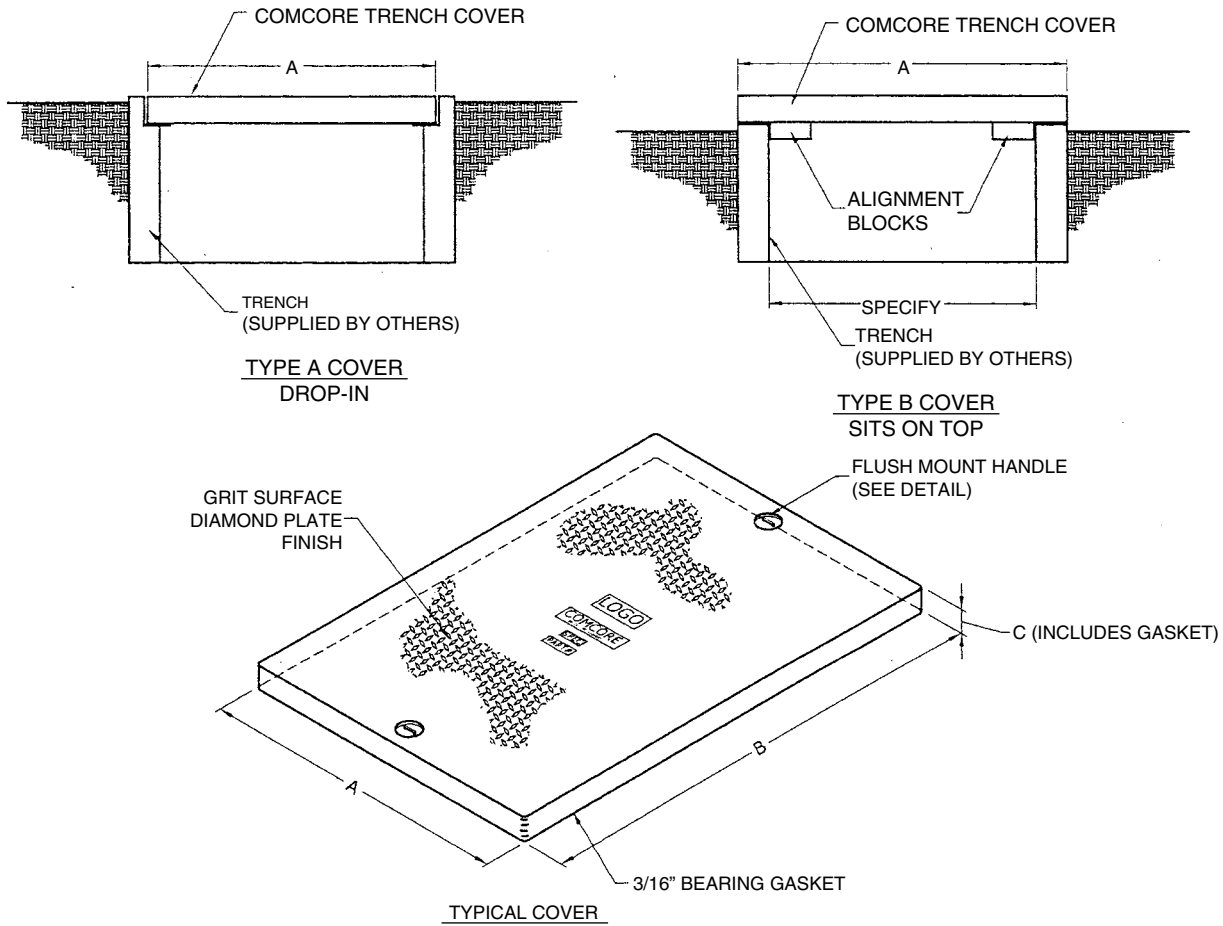
Comcore covers come in round, rectangular or square shapes that are customized to fit your frames and trenches. Comcore Covers are an excellent way to rehabilitate existing trenches or to enhance new construction.



Comcore trench covers can even handle a change in elevation.



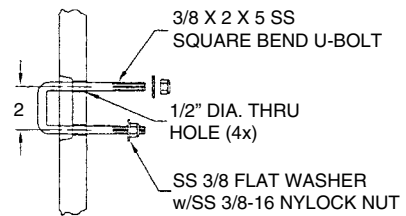
Call us to discuss your upcoming project today!



For Type B style covers contact customer service.

TRENCH COVER TYPE A	Old Part Number	A	B	C	Load Rating	Weight Lbs.
TA166015CL	CTC1660L	16	60	1 1/2	7,000 lbs.	35
TA166002CH	CTC1660F	16	60	2	20,000 lbs.	45
TA203215CL	CTC2032L	20	32	1 1/2	7,000 lbs.	23
TA203202CH	CTC3032F	20	32	2	20,000 lbs.	28
TA244815CL	CTC2448L	24 1/4	48 1/2	1 1/2	7,000 lbs.	30
TA244802CH	CTC2448F	24 1/4	48 1/2	2	20,000 lbs.	40
TA266015CL	CTC2660L	26	60	1 1/2	7,000 lbs.	66
TA266002CH	CTC2660F	26	60	2	20,000 lbs.	72
TA305215CL	CTC3052L	30	52	1 1/2	7,000 lbs.	35
TA305202CH	CTC3052F	30	52	2	20,000 lbs.	72
TA326015CL	CTC3260L	32	60	1 1/2	7,000 lbs.	80
TA326002CH	CTC3260F	32	60	2	20,000 lbs.	100
TA366015CL	CTC3660L	36	60	1 1/2	7,000 lbs.	90
TA366002CH	CTC3660F	36	60	2	20,000 lbs.	100
TA404615CL	CTC4046L	40	46	1 1/2	7,000 lbs.	82
TA404602CH	CTC4046F	40	46	2	20,000 lbs.	85
TA426015CL	CTC4260L	42	60	1 1/2	7,000 lbs.	86
TA426002CH	CTC4260F	42	60	2	20,000 lbs.	116

"C" in the cover number denotes gray cover color. "B" for black and "E" for Brown are other standard colors. A variety of colors are available. Contact customer service for more information.



LIFT ASSEMBLY DETAIL

COMCORE™ THE LIGHTWEIGHT ROAD PLATE AND SHORING PANEL



- REPLACES 1" STEEL PLATES IN HEAVY TRAFFIC
- EXCEEDS OSHA REQUIREMENTS FOR SHORING - TYPE C SOIL
- EASILY CARRIED BY 2 PEOPLE - TRANSPORTED IN STANDARD CREW TRUCK

MADE IN U.S.A.



CONVERTS TO
3 OR 4 SIDED
PIT SHIELD

CONVERTS VERTICAL
SHORES TO TYPE C SHIELD



The COMCORE™ ROADPLATE A Lightweight Structural Panel

IT'S A ROADPLATE!

- Rated for 16,000 lb. wheel loading, temporary street use only
- A replacement for 1" thick steel plates
- Easily carried by two people
- Transports in a standard crew truck
- Available in 4 sizes: 4'x4', 4'x6', 5'x6', and 4'x8'
- 4'x4' RoadPlate weighs 68 pounds, covers up to a 2'6" wide hole
- 4'x6' RoadPlate weighs 127 pounds, covers up to a 4' wide hole
- 5'x6' RoadPlate weighs 158 pounds, covers up to a 4' wide hole
- 4'x8' RoadPlate weighs 192 pounds, covers up to a 6' wide hole
- Use the RoadBeam to cover a 9' wide hole
- Skid resistant diamond plate surface
- Safety orange color for visibility

IT'S AN OFF-ROADPLATE!

- Easy to use in backyards, lawns, parks, sidewalks
- Bring it in where there is no lifting equipment
- Safer than barricades and tape
- Costs almost nothing to use

IT'S SHORING!

- Exceeds OSHA requirements for Type C soil 12' depth
- Converts hydraulic shores into a worst case system
- Reduces the number of hydraulic shores needed
- Use it with mechanical spreaders
- Engineering certified
- Quick and easy to use

IT'S A TRENCH SHIELD!

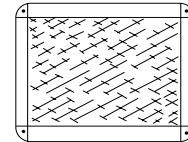
- Exceeds OSHA requirements for Type C soil 12' depth
- Converts to a 2, 3 or 4-side shield
- Use it with Comcore™ Shoring Panels and Frame
- Doesn't lock you in to a fixed shield size
- Takes no more than 2 people to handle
- Goes to the job site in the crew truck
- Assembles and goes into the hole in minutes
- Doesn't have a lot of pieces and parts
- No scrap value - non-conductive - non-reflective

PAYS FOR ITSELF QUICKLY WHEN USED FOR:

- | | | |
|--|---|--|
| <input type="checkbox"/> Service Taps | <input type="checkbox"/> Road Crossings | <input type="checkbox"/> Drain Basins |
| <input type="checkbox"/> Repair Operations | <input type="checkbox"/> Fire Lines | <input type="checkbox"/> Repair or Bridge Joints |
| <input type="checkbox"/> Hole Reconstruction | <input type="checkbox"/> Traffic Cabling | <input type="checkbox"/> Valve or Meter Box |
| <input type="checkbox"/> Emergencies | <input type="checkbox"/> Line Maintenance | Installations |

COMCORE ROADPLATE

For Temporary use only. Must be inspected after every use.



4 ft. X 6 ft.
RoadPlate

Part No.	Old Model No.	Size	Weight	Ramping* Configuration	Max. Hole Width**	
					Long side	Short Side
RP484802A1	C44S	4' x 4'	68 lbs.	Ramped on 4 sides	30"	30"
RP487202A1	C46S	4' x 6'	127 lbs.	Ramped on 4 sides	48"	30"
RP487202A2	C46C	4' x 6'	127 lbs.	Ramped on both 4' sides	48"	30"
RP487202A3	C46L	4' x 6'	127 lbs.	Ramped on both 6' sides	48"	30"
RP607202A1	CR4S	5' x 6'	158 lbs.	Ramped on 4 sides	48"	36"
RP607202A2	CR2C	5' x 6'	158 lbs.	Ramped on both 5' sides	48"	36"
RP607202A4	CR3E	5' x 6'	158 lbs.	Ramped on both 5' sides & on one 6' side	48"	36"
RP489602A2	C48C	4' x 8'	192 lbs.	Ramped on both 4' sides	72"	30"

*Ramped edges have a 1/2" radius.

**With an unsupported width exceeding 30", RoadPlates must overlap road surface with a minimum of 12" on two parallel sides.

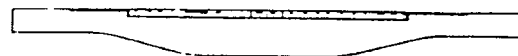
Note: RoadPlates must be anchored in four corners with approved anchors whenever vehicular traffic may be present. The C44S must be anchored on two parallel sides.

RoadPlate Capability - 2 or More Roadplates Butt Edge to Butt Edge

No. Roadplates	4' x 6'		5' x 6'		4' x 8'	
	Hole Size	Hole Size	Hole Size	Hole Size	Hole Size	Hole Size
2	7' x 4'	2.5' x 11'	9' x 4'	3' x 11'	7' x 6'	2.5' x 15'
3	11' x 4'	2.5' x 17'	14' x 4'	3' x 17'	11' x 6'	2.5' x 23'
4	15' x 4'	2.5' x 23'	19' x 4'	3' x 23'	15' x 6'	2.5' x 31'
5	19' x 4'	2.5' x 29'	24' x 4'	3' x 29'	19' x 6'	2.5' x 39'

Mechanical Anchors for Roadplates

Part No.	Description
AS165	Double expansion anchor assembly
A402	Double expansion shield only
BS24	5/8" x 8" Asphalt spike



Side View
RoadBeam

COMCORE ROADBEAM

Model No.	Size	Weight	Ramping Configuration	Maximum Hole Width**
CB11	11'L x 11"W x 12"D 3.5" Side Flanges	136 lbs	n/a	9'

** RoadBeam must be inset into road surface with a minimum overlap of 12" on each side. Side Flanges must rest on road surface. RoadPlates must be secured to RoadBeam on at least one side. Plate end on road surface must overlap a minimum of 12".

RoadBeam Capability - Used with Butt Edge 5' x 6' RoadPlates

No. RoadBeams	No. RoadPlates	Plate Size	Hole Size
1	4	5' x 6'	9' x 10'
2	6	5' x 6'	9' x 16'
3	8	5' x 6'	9' x 22'
4	10	5' x 6'	9' x 28'



COMCORE ROADPLATE MATERIAL SPECIFICATIONS

COLOR

Safety Orange

LOADING

Road: See Comcore Road Plate Rating table.

Shoring: Meets OSHA (Support P) requirements in Type C soil up to 12 ft. depths.

CONSTRUCTION

Patented fiberglass composite structure. U.S. Patents #4,801,483 and #5,305,568.

DIELECTRIC CHARACTERISTICS

Breakdown 55,000 volts

SURFACE

Skid resistant diamond pattern with a coefficient of friction 0.65-0.70..

TEMPERATURE

Not affected by extreme temperatures.

UV STABILITY

UV impervious; color might fade over time, but no structural effect.

CORROSION

Does not rust or corrode.

CHEMICAL RESISTANCE

Highly resistant to fuels, oils and corrosive chemicals as well as a wide range of acids, alkalis, solvents and most other chemicals. Not affected by asphalt, concrete or other roadway materials or chemicals.

COMCORE ROADPLATE LOAD RATING

Road Plates

Rating	Maximum Load, Lbs.	Test Load Lbs.	Applications
Truck	16,000	32,000	Trench crossings and protection in streets and secondary roadways where speed can be limited to 25 mph or less at the cover. Road Plates are for temporary applications with pneumatic tires only.

CAUTION: Road plates must be secured in accordance with manufacturer's recommendation.

COMCORE™

THE LIGHTWEIGHT SHORING SYSTEM

**YOU CAN CHANGE AS
YOUR NEEDS CHANGE!**

- MODULAR
 - FLEXIBLE
 - EXPANDABLE

- 2-SIDED TRENCH SHIELDS
- 4-SIDED PIT SHIELDS
- SHIELDS FOR CROSSING UTILITY SERVICES
- EXTRA LIGHT SHIELDS FOR BACKYARD USE
- SHORING WITH MECHANICAL JACKS
- SHORING WITH HYDRAULIC JACKS

**THE SHORING THAT
DOUBLES AS A
ROADPLATE!**





The COMCORE™ Lightweight Shoring System

Flexible Modular Expandable

CUSTOMIZE YOUR WORKER PROTECTION AS YOU NEED IT!

- Choose the **Comcore™** shoring module that meets your most common worker protection needs.
- Combine **Comcore™** RoadPlates, Shoring Panels, and Support Frames to make a wide variety of 2, 3, or 4-sided shields.
- Build it up, close it in, or adjust the width as needed.
- Select your basic shoring system now: build and modify it over time at a fraction of the cost of a new system.

SELECT COMCORE™ SHIELDS FOR THOSE SPECIAL NEEDS!

- Use **Comcore™** Shoring Panels and Frames to shield workers in holes having multiple services crossing each other at random heights and angles.
- Choose the **Comcore™** extra light backyard shield when you're in a tight area where the use of lifting equipment isn't an option.
- Combine **Comcore™** RoadPlates and Shoring Panels with hydraulic spreaders.
- Use your **Comcore™** RoadPlates and Shoring Panels with mechanical spreaders.

FASTER, EASIER, LESS COSTLY WITH COMCORE™ SHORING!

- All **Comcore™** components can be transported in a standard crew truck, carried by two people and assembled on the job.
- Comcore™** Shields provide 4-sided worker protection in holes up to 12 feet deep without costly cut-backs or construction.

USE THE COMCORE™ ROADPLATES TO PLATE UTILITY HOLES!

- When you're finished using **Comcore™** RoadPlates as shoring in the hole, use them as plating to cover the hole. (**Comcore™** RoadPlates are multi-purpose products. **Comcore™** Shoring Panels cannot be used as plating.)

All **Comcore™** Shoring components are designed and made in the USA to exceed OSHA performance requirements for use as active (wall support) or passive (wall shield) shoring up to 12 feet depths in type C80 soils.

THE COMCORE SHORING SYSTEM

The Comcore Shoring System consists of modular components that give the User multiple shoring capabilities in one system. The Comcore Shoring System can be quickly modified as time and job requirements dictate.

The Comcore Shoring System is made up of (A) Comcore Roadplates which are Certified for use as shoring, (B) Comcore Shoring Panels and (C) Comcore Frames.

The Comcore Shoring System utilizes new lightweight materials to provide safety, flexibility and speed of installation. All Comcore Shoring Components exceed OSHA performance requirements for use as active or passive shoring to 12 feet depths in type C soil.

Components can be easily carried by 2 people, transported in a standard crew truck and quickly assembled at the job site.

BASIC UNIT - STANDARD 2-SIDED PROTECTIVE SHIELDS

A Basic Unit consists of the base support frame and Roadplates and/or shoring panels to form a stand alone shield ranging from 4'H x 4'L to 8'H x 8'L. The Basic Units can be stacked one atop another or used with up to 2-Stacking Units to increase shield height to a maximum of 12 feet.

There are several options for modifying the Basic Unit to meet the User's shoring requirements.

OPTION ONE - CONVERTING BASIC UNIT TO 4-SIDED PIT SHIELD

The User can convert from a 2-sided trench shield to a 4-sided pit shield by using Comcore End Panels. This option eliminates the need to slope the excavation walls.

OPTION TWO - INCREASING HEIGHT OF BASIC UNIT

The User can increase the height of the basic unit by using 2, 3 or 4 ft. Stacking Frames, Adapters and the necessary Side Panels to reach the desired Shield height. A maximum of three frames, including the base, can be stacked to a maximum of 12 ft.

OPTION 3 - CHANGING BASIC UNIT SHIELD LENGTH

The User can increase or decrease the shield length by using shorter or longer Comcore Side Panels.

OPTION 4 - CHANGING SHIELD WIDTH

Shields described above come standard with a 28 in. cylinder permanently fixed to the Frame. This provides the User with a 36 x 55 inch inside working width.

This option allows the User to reduce or expand the width of the shields by changing the cylinder size. A key is required to change cylinders, preventing their unauthorized removal. Shield width can be changed from a minimum inside working width of 22 inches to a maximum inside working width of 67 inches.



SPECIAL REQUIREMENTS: BACKYARD AND CROSSING SERVICE SHIELDS

The Backyard and Crossing Service Shields were designed for job situations having special requirements. The Backyard and Crossing Service Shields are made up of horizontal and vertical hanging panels.

The Backyard Shield is an extra-light modular shield that was designed for situations where no special digging or lifting equipment, such as a backhoe, is available. The Backyard Shield comes in 2 ft. and 3 ft. high vertical modules, and can be safely installed in the hole without the use of special equipment. The Backyard Shields are available for depths to 6 ft. in Type C soils.

The Crossing Service Shield was designed for situations where there are secondary utility services crossing the primary service at random heights and angles. The horizontal panels are designed to fit under the crossing services, and the vertical hanging panels can be adjusted on each side to accommodate the height and angle of the crossing service. Crossing Service Shields are available for depths to 10 ft. in Type C soils.

The primary differences between a Backyard Shield and a Crossing Service Shield are the depth rating and the module size. Backyard Shields can be easily converted into Crossing Service Shields.

USING HYDRAULIC OR MECHANICAL SHORES

Comcore RoadPlates and Shoring Panels can be used with hydraulic shores to a depth of 12 feet. Because Comcore panels are a structural member of the shoring system, they use fewer vertical hydraulic shores than would normally be required. This opens up more unobstructed working room. Only 2 vertical shores are required when using 4' x 8' Comcore panels for an 8 ft. span, 3 for a 16 ft. span, 4 for a 24 ft. span and so on.

When using the Comcore RoadPlates and Shoring Panels with mechanical shoring the excavation depth is limited to the depth at which the mechanical spreaders can be safely installed from outside the excavation.

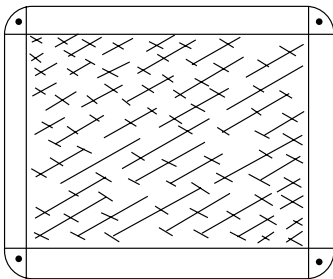
COMCORE™ SHORING PRODUCTS

I. COMCORE ROADPLATES USED AS SHORING PANELS

The Comcore Roadplates are multi-purpose, structural panels that exceed all OSHA requirements for holes up to 12 ft. deep having type C80 soils when used (a) as an underground protective shield or (b) shoring with screw or hydraulic jacks.

Comcore Roadplates have the following physical characteristics:

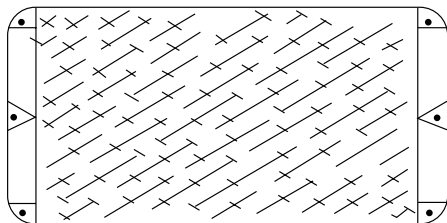
- Flexural Strength: 50,000 lbs. per square inch
- Surface: Skid resistant diamond pattern
- Edges: Available 2-ramped, 3-ramped and 4-ramped
- Color: Safety Orange
- Corrosion: Does not rust or corrode
- UV Stability: Structural characteristics impervious to UV rays
- Chemical Resistance: Highly resistant to chemicals
- Temperature: Not affected by extreme temperatures



5' X 6'

Item No. RP607202A1 (CR4S)*
RP607202A2 (CR2C)*
RP607202A4 (CR3E)*

Dimensions:	5 ft. X 6 ft.
Vertical Shoring Ht. (unstacked):	5 ft. or 6 ft.
Vertical Shoring Ht. (stacked):	10 ft. or 12 ft.
Horizontal Shoring Length:	5 ft. or 6 ft.
Weight Each Plate:	158 lbs.



4' X 8'

Item No. RP489602A2 (C48C)*

Dimensions:	4 ft. X 8 ft.
Vertical Shoring Ht. (unstacked):	4 ft. or 8 ft.
Vertical Shoring Ht. (stacked):	8 ft. or 12 ft.
Horizontal Shoring Length:	4 ft. or 8 ft.
Weight Each Plate:	192 lbs.

()* Indicates old item number

II. COMCORE SHORING PANELS

The Comcore Shoring Panels are structural panels that exceed all OSHA requirements for holes up to 12 ft. deep having type C80 soils when used (a) as an underground protective shield or (b) shoring with screw or hydraulic jacks. Comcore Shoring Panels CANNOT be used as road plates.

Comcore Shoring Panels have the following physical characteristics:

- Flexural Strength: 50,000 lbs. per square inch
- Surface: Smooth
- Edges: Squared edges
- Color: Safety Orange
- Corrosion: Does not rust or corrode
- UV Stability: Structural characteristics impervious to UV rays
- Chemical Resistance: Highly resistant to chemicals
- Temperature: Not affected by extreme temperatures

A. Side Panels

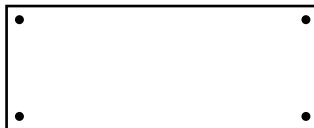


1' X 5'

Item No. SS126002 (SP15)*

Description:
Dimensions:
Shoring Height:
Shoring Length:
Weight Each Panel:

Side Panel
1 ft. X 5 ft.
1 ft. or 5 ft.
1 ft. or 5 ft.
31 lbs.

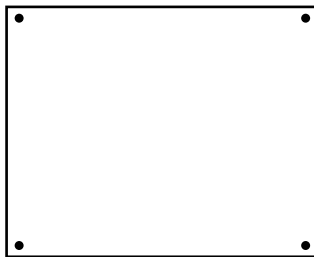


2' X 5'

Item No. SS246002 (SP25)*

Description:
Dimensions:
Shoring Height:
Shoring Length:
Weight Each Panel:

Side Panel
2 ft. X 5 ft.
2 ft. or 5 ft.
2 ft. or 5 ft.
62 lbs.

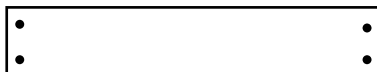


50" X 5'

Item No. SS506002 (SP45)*

Description:
Dimensions:
Shoring Height:
Shoring Length:
Weight Each Panel:

Side Panel
50 in. X 5 ft.
50 in. or 5 ft.
50 in. or 5 ft.
128 lbs.



1' X 6'

Item No. SS127202 (SP16)*

Description:
Dimensions:
Shoring Height:
Shoring Length:
Weight Each Panel:

Side Panel
1 ft. X 6 ft.
1 ft. or 6 ft.
1 ft. or 6 ft.
37 lbs.

()* Indicates old item number

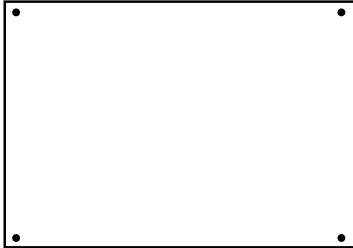


2' X 6'

Item No. SS247202 (SP26)*

Description:
 Dimensions:
 Shoring Height:
 Shoring Length:
 Weight Each Panel:

Side Panel
 2 ft. X 6 ft.
 2 ft. or 6 ft.
 2 ft. or 6 ft.
 74 lbs.



50" X 6'

Item No. SS507202 (SP46)*

Description:
 Dimensions:
 Shoring Height:
 Shoring Length:
 Weight Each Panel:

Side Panel
 50 in. X 6 ft.
 50 in. or 6 ft.
 50 in. or 6 ft.
 154 lbs.

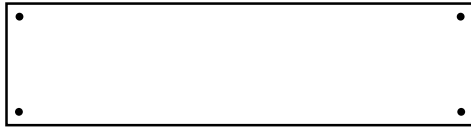


1' X 8'

Item No. SS129602 (SP18)*

Description:
 Dimensions:
 Shoring Height:
 Shoring Length:
 Weight Each Panel:

Side Panel
 1 ft. X 8 ft.
 1 ft. or 8 ft.
 1 ft. or 8 ft.
 49 lbs.

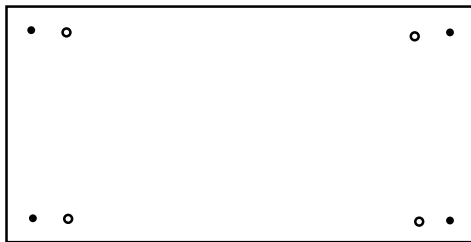


2' X 8'

Item No. SS249602 (SP28)*

Description:
 Dimensions:
 Shoring Height:
 Shoring Length:
 Weight Each Panel:

Side Panel
 2 ft. X 8 ft.
 4 ft. or 8 ft.
 4 ft. or 8 ft.
 98 lbs.

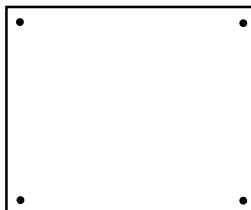


4' X 8'

Item No. SS489602 (SP48)*

Description:
 Dimensions:
 Shoring Height:
 Shoring Length:
 Weight Each Panel:

Side Panel
 4 ft. X 8 ft.
 4 ft. or 8 ft.
 4 ft. or 8 ft.
 197 lbs.



41" X 50"

Item No. SS415002 (SP34)*

Description:
 Dimensions:
 Shoring Height:
 Shoring Length:
 Weight Each Panel:

Side Panel
 41 in. X 50 in.
 41 in. or 50 in.
 41 in. or 50 in.
 88 lbs.

() * Indicates old item number

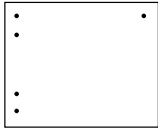
B. End Panels



27" X 50"

Item No. SE215002 (EP27)*

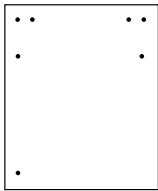
Description: End Panel
 Dimensions: 21 in. X 50 in.
 Shoring Height: 5 ft. or 4 ft.
 Hole Width: 27 in.
 Weight Each Panel: 45 lbs.



41" X 50"

Item No. SE415002 (EP34)*

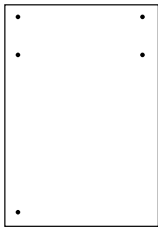
Description: End Panel
 Dimensions: 41 in. X 50 in.
 Shoring Height: 41 in. or 50 in.
 Hole Width: 34 in. X 50 in.
 Weight Each Panel: 88 lbs.



50" X 60"

Item No. SE506002 (EP45)*

Description: End Panel
 Dimensions: 50 in. X 60 in.
 Shoring Height: 50 in. or 60 in.
 Hole Width: 50 in. or 60 in.
 Weight Each Panel: 128 lbs.



50" X 72"

Item No. SE507202 (EP46)*

Description: End Panel
 Dimensions: 50 in. X 72 in.
 Shoring Height: 50 in. X 72 in.
 Hole Width: 46 in. X 72 in.
 Weight Each Panel: 153 lbs.



4' X 8'

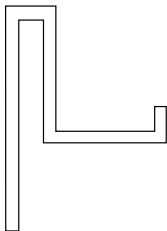
**Item No. SE489602 (EP48)*

Description: End Panel
 Dimensions: 4 ft. X 8 ft.
 Shoring Height: 4 ft. or 8 ft.
 Hole Width: 48 in. X 96 in.
 Weight Each Panel: 197 lbs.

()* Indicates old item number

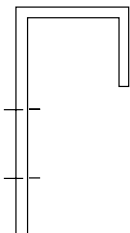
****SS489602 (SP48) and SE489602 (EP48) are interchangeable**

C. Shoring Panel Hardware



Item No. EPH1

Description: End Panel Hangers 4 each
 Item Use: Required when converting shield from 2-sided trench shield to 4-sided pit shield. Accepts panels on end of frame section.



Item No. SPH4

Description: Side Panel Hangers 4 each
 Item Use: Required when hanging side panels. Hangers necessary for Crossing Service and Backyard Shields.

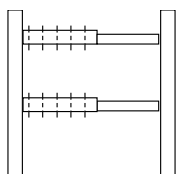
III. UNDERGROUND SHIELD FRAMES

Comcore Shield Frames consist of bottom sections (Support Frames), top sections (Stacking Frames) and Stacking Adapters used to connect the bottom and top frame sections.

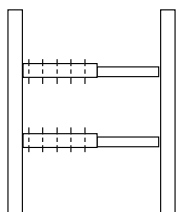
Comcore Frames and Shields CAN BE stacked 3 high to MAXIMUM HEIGHT of 12 feet. Stacking Adapters MUST BE USED between frame sections.

All Comcore Support Frames and Stacking Frames are constructed of pultruded fiberglass and aluminum cylinders, and are engineered to exceed all OSHA requirements for holes up to 12 ft. deep having Type C80 soils. Comcore Frames approved for use ONLY with Comcore Roadplates or Shoring Panels.

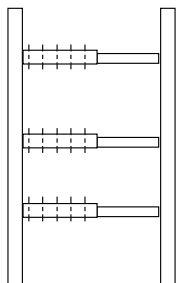
A. SUPPORT FRAMES



Item No. SF05	
Vertical Frame Height:	5 ft.
Length Adjustment:	3 ft. - 8 ft.
H Section Weight:	77 lbs.
Total Frame Weight:	154 lbs.
No. Std. With Adj.:	5
Std. Width Adj.:	36.25-55.25 in.
*Cylinders per side:	2
Service Clearance:	24 in.



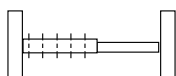
Item No. SF06	
Vertical Frame Height:	6 ft.
Length Adjustment:	3 ft. - 8 ft.
H Section Weight:	88 lbs.
Total Frame Weight:	176 lbs.
No. Std. With Adj.:	5
Std. Width Adj.:	36.25-55.25 in.
*Cylinders per side:	2
Service Clearance:	24 in.



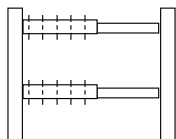
Item No. SF08	
Vertical Frame Height:	8 ft.
Length Adjustment:	3 ft. - 8 ft.
H Section Weight:	105 lbs.
Total Frame Weight:	210 lbs.
No. Std. With Adj.:	5
Std. Width Adj.:	36.25-55.25 in.
*Cylinders per side:	3
Service Clearance:	24 in.

* See Frame Adjustments for Min. and Max. Hole Width

B. STACKING FRAMES



Item No. SF02	
Vertical Frame Height:	2 ft.
Length Adjustment:	3 ft. - 8 ft.
H Section Weight:	55 lbs.
Total Frame Weight:	110 lbs.
No. Std. With Adj.:	5
*Std. Width Adj.:	36.25-55.25 in.
Cylinders per side:	1



Item No. SF04	
Vertical Frame Height:	4 ft.
Length Adjustment:	3 ft. - 8 ft.
H Section Weight:	66.5 lbs.
Total Frame Weight:	133 lbs.
No. Std. With Adj.:	5
Std. Width Adj.:	36.25-55.25 in.
*Cylinders per side:	2

Item No. CW25

Width Adjustment: 22.25-35.50 in.
 For Use With: Frames SF08
 Number of Cylinders: 6
 Adjusting Positions: 3

Item No. CW48

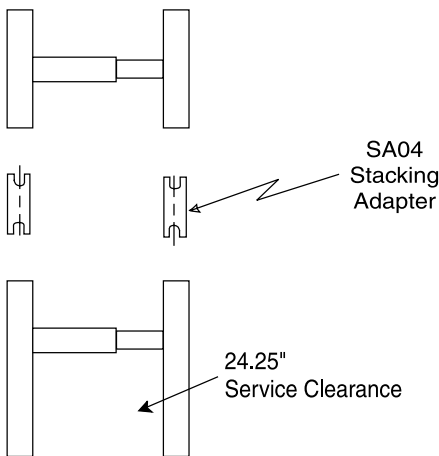
Width Adjustment: 48.25-67.50 in.
 For Use With: Frames SF08
 Number of Cylinders: 6
 Adjusting Positions: 5

Item No. LS06

6 ft. lifting sling

IV. SPECIAL SHIELDS

A. Backyard Shield



Item No. CW36

Width Adjustment: 36.25-55.25 in.
 For Use With: Frames SF08
 Number of Cylinders: 6
 Adjusting Positions: 5

Item No. EL24

24" Adjustable Extension Leg
 Fits all support and stacking frames

Item No. LS08

8 ft. lifting sling

Item No. BA406060 (BS55)*

Depth: 5 ft.
 Length: 5 ft.
 Std. Width Adj.: 22.25-35.50
 Hole Size:
 Min. Length: 5 ft. 5 in.
 Min. Width: 27.25 in.
 Max. Length: 6 ft. 5 in.
 Max. Width: 52.50 in.
 Max. Depth: 5 ft.

Components:

Bottom Frame: SF3B
 Height: 3 ft.
 Frame Weight: 120 lbs.
 H Section Weight: 60 lbs.

Top Frame: SF2B
 Height: 2 ft.
 Frame Weight: 108 lbs.
 H Section Weight: 54 lbs.

Side Panels:
 6-SS126002 (SP15)*: 1 ft. X 5 ft.
 Panel Weight: 31 lbs.
 4-SS246002 (SP25)*: 2 ft. X 5 ft.
 Panel Weight: 62 lbs.

End Panels:
 2-SE415002 (EP34)*: 41 in. X 50 in.
 Panel Weight: 88 lbs.

Item No BA406072 (BS65)*

Depth: 6 ft.
 Length: 5 ft.
 Std. Width Adj: 22.25-35.50 in.
 Hole Size:
 Min. Length: 5 ft. 5 in.
 Min. Width: 27.25 in.
 Max. Length: 6 ft. 5 in.
 Max. Width: 52.50 in.
 Max. Depth: 6 ft.

Components:

Bottom Frame: SF3B
 Height: 3 ft.
 Frame Weight: 120 lbs.
 H Section Weight: 60 lbs.

Top Frame: SF3B
 Height: 3 ft.
 Frame Weight: 120 lbs.
 H Section Weight: 60 lbs.

Side Panels:
 4-SS126002 (SP15)*: 1 ft. X 5 ft.
 Panel Weight: 31 lbs.
 4-SS247202 (SP26)*: 2 ft. X 6 ft.
 Panel Weight: 74 lbs.
 4-SS127202 (SP16)*: 1 ft. X 6 ft.
 Panel Weight: 37 lbs.

End Panels:
 2-SE415002 (EP34)*: 41 in. X 50 in.
 Panel Weight: 88 lbs.

(*) Indicates old item number

B. Crossing Service Shields

Item No. CA577296 (CS68)*

Description: 4-Sided Pit Shield
 Depth: 8 ft.
 Length: 6 ft.
 Std. Width Adj.: 36.25-55.25 in.
 Assembled Shield Weight: 1092 lbs.
 Hole Size:
 Min. Length: 6 ft. 5 in.
 Min. Width: 41.25 in.
 Max. Length: 7 ft. 5 in.
 Max. Width: 72.25 in.
 Max. Depth: 8 ft.

Components:

Frame: SF08
 Height: 8 ft.
 Frame Weight: 210 lbs.
 H Section Weight: 105 lbs.

Side Panels:

4-SS127202 (SP16)*: 1 ft. X 6 ft.
 Panel Weight: 35 lbs.
 4-SS249602 (SP28)*: 2 ft. X 8 ft.
 Panel Weight: 98 lbs.
 2-SS129602 (SP18)*: 1 ft. X 8 ft.
 Panel Weight: 49 lbs.

End Panels:

2-SS507202 (EP46)*: 50 in. X 72 in.
 Panel Weight: 154 lbs.

Base Panels:

2-SB080872 (CSL6)*: 8 in. X 8 in. X 6 ft.
 Panel Weight: 45 lbs.

()* Indicates old item number

Item No. CA579696 (CS88)*

Description: 4-Sided Pit Shield
 Depth: 8 ft.
 Length: 8 ft.
 Std. Width Adj.: 36.25-55.25 in.
 Assembled Shield Weight: 1392 lbs.
 Hole Size:
 Min. Length: 8 ft. 5 in.
 Min. Width: 41.25 in.
 Max. Length: 8 ft. 5 in.
 Max. Width: 72.25 in.
 Max. Depth: 8 ft.

Components:

Bottom Frame: SF08
 Height: 8 ft.
 Frame Weight: 210 lbs.
 H Section Weight: 105 lbs.

Side Panels:

6-SS127202 (SP18)*: 1 ft. X 8 ft.
 Panel Weight: 61 lbs.
 6-SS249602 (SP28)*: 2 ft. X 8 ft.
 Panel Weight: 98 lbs.

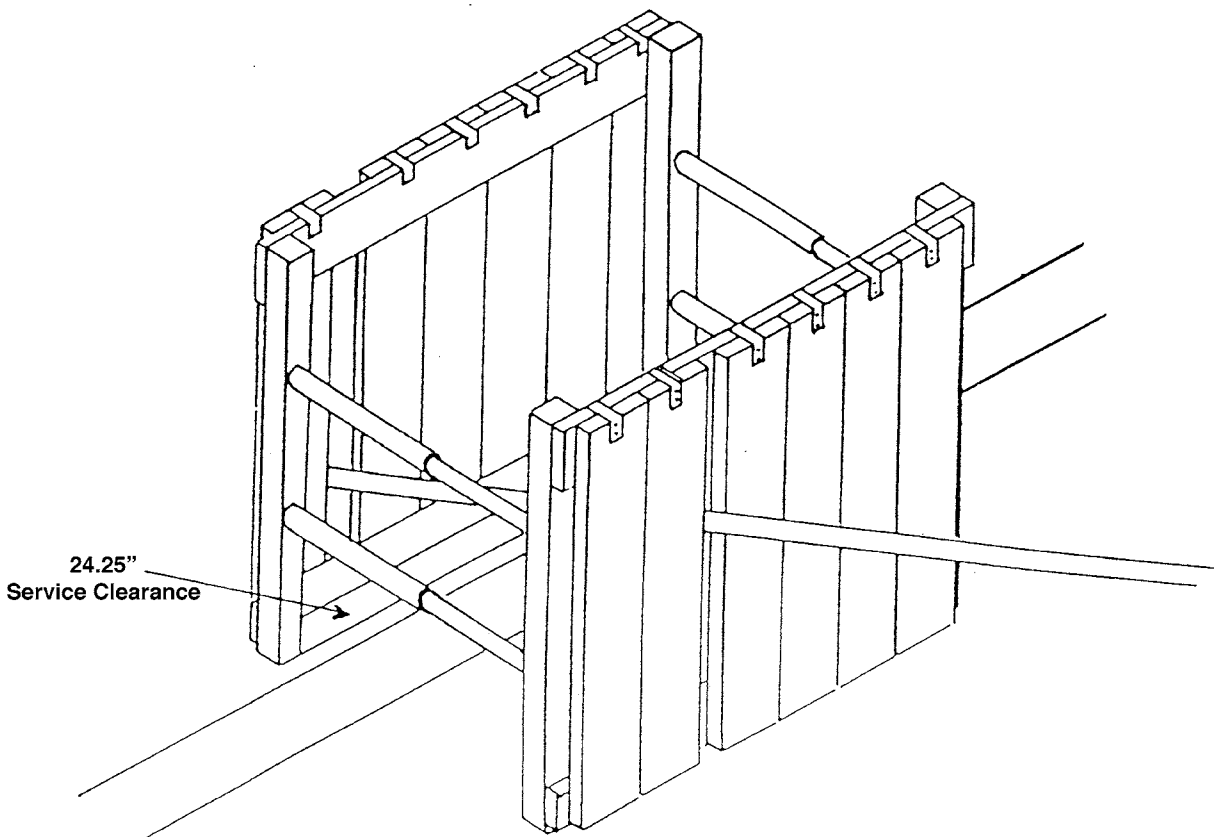
End Panels:

2-SS507202 (EP46)*: 50 in. X 72 in.
 Panel Weight: 154 lbs.

Base Panels:

2-SB080896 (CSL8)*: 8 in. X 8 in. X 8 ft.
 Panel Weight: 45 lbs.

()* Indicates old item number



C. Stacking Adapter



Item No. SA04
 Weight Each: 3.5 lbs.
 Description: Alum. Stacking Adapters (4) required for positioning Stacking Frames on Support Frames to build height.

*See Frame Adjustments for Min. and Max. Hole Width

D. Frame Width Adjustments

Each Comcore Shield comes with a standard width adjustment. Frame modifications are required if the User wants the flexibility of expanding or reducing the standard width adjustment.

Comcore Shields can be adapted to accept the following width adjustments:

<u>Width Adjustment</u>	<u>Min. Hole Width</u>	<u>Max. Hole Width</u>
1. 22.25 - 35.50 in.	1. 27.25 - 40.50 in.	1. 39.25 - 52.50 in.
2. 36.25 - 55.25 in.	2. 41.25 - 60.25 in.	2. 53.25 - 62.25 in.
3. 48.25 - 67.50 in.	3. 53.25 - 72.00 in.	3. 65.25 - 84.00 in.

E. Frame Modifications:

A frame modification includes (a) tapping of the aluminum cylinders, (b) special key head bolts to secure the cylinders and (c) a key to remove bolts so cylinders can be changed.

CYLINDERS ARE NOT INCLUDED AS PART OF THE FRAME MODIFICATION.

Item No. FMB2 Modifies: Backyard Shields Frame Nos. SF2B and SF3B
 For Width Adjustments: 36.25-55.25 in. and 48.25-67.50 in.

Item No. FM02 Modifies: SF02 and SF03 Stacking Frames
 For Width Adjustments: 22.25-25.50 in. and 48.25-67.50 in.

Item No. FM06 Modifies: SF04, SF05 and SF06 Support Frames
 For Width Adjustments: 22.25-35.50 in. and 48.25-67.50 in.

Item No. FM08 Modifies: SF08 Support Frame
 For Width Adjustments: 22.25-35.50 in. and 48.25-67.50 in.

Aluminum Cylinder Sets

Item No. CB25
 Width Adjustment: 22.25-35.50 in.
 For Use With: Frames SF2B, SF3B, SF02
 Number of Cylinders: 2
 Adjusting Positions: 3

Item No. C025
 Width Adjustment: 22.25-35.25 in.
 For Use With: Frames SF04, SF05, SF06
 Number of Cylinders: 4
 Adjusting Positions: 3

Item No. CB36
 Width Adjustment: 36.25-55.25 in.
 For Use With: Frames SF2B, SF3B, SF02, SF03
 Number of Cylinders: 2
 Adjusting Positions: 5

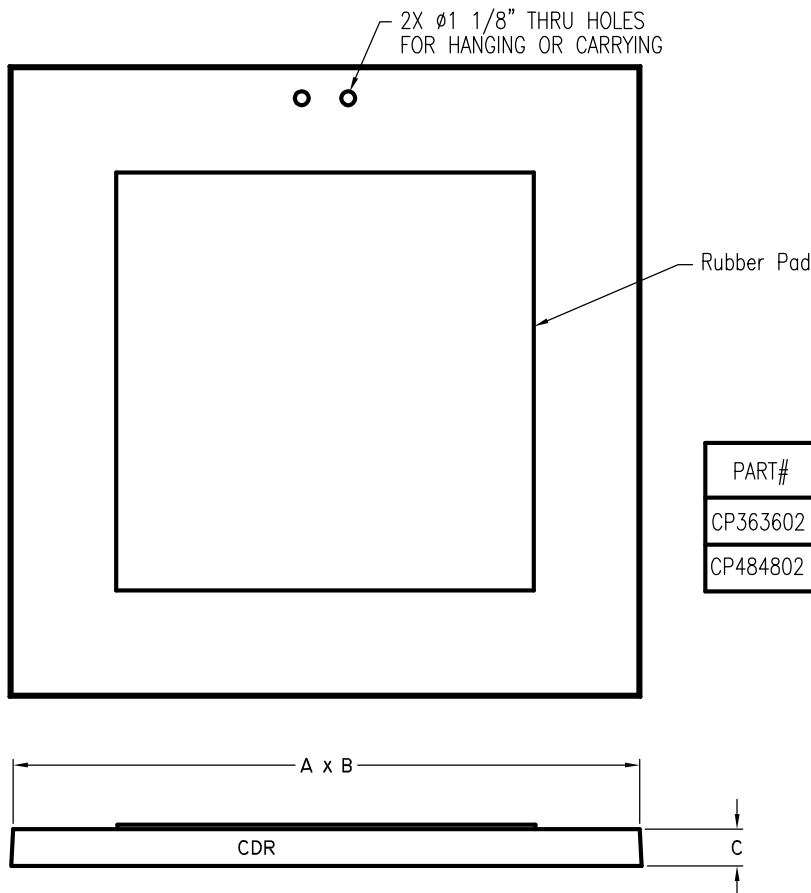
Item No. C036
 Width Adjustment: 36.25-55.25 in.
 For Use With: Frames SF04, SF05, SF06
 Number of Cylinders: 4
 Adjusting Positions: 5

Item No. CB48
 Width Adjustment: 48.25 - 67.50 in.
 For Use With: SF2B, SF3B, SF02
 Number of Cylinders: 2
 Adjusting Positions: 4

Item No. C048
 Width Adjustment: 48.25 - 67.50 in.
 For Use With: SF04, SF05, SF06
 Number of Cylinders: 4
 Adjusting Positions: 5

COMPRESSION PADS

FITS VEHICLES EQUIPPED WITH OUTRIGGERS



PART#	OLD PART#	A	B	C	RATING	WT. LBS.
CP363602	CP33	36	36	2 1/8	45T	47
CP484802	CP44	36	36	2 1/8	80T	70

- MATERIAL: FIBERGLASS COMPOSITE
- COLOR: SAFETY ORANGE BASE WITH BLACK RUBBER PAD
- REPLACEABLE RUBBER SURFACE TO HOLD OUTRIGGER WON'T CORRODE, SPARK OR CONDUCT CURRENT
- SAVES MANPOWER EQUIPMENT AND TIME
- LIGHTWEIGHT REPLACEMENT FOR CUMBERSOME STEEL PLATES
- EASILY HANDLED BY ONE PERSON
- DISPERSES LOAD – PROTECTS ASPHALT, CONCRETE AND OTHER SURFACES
- CAN BE TRANSPORTED IN CREW TRUCK
- HOLES FOR HANGING AND CARRYING

COMCORE™



**LIGHTWEIGHT
HEAVY DUTY LOCKING
MANHOLE COVERS**



**LIGHTWEIGHT
TRENCH COVERS**



**LIGHTWEIGHT
ROAD PLATES**



**LIGHTWEIGHT
SHORING SYSTEM**

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COMPOSITE UTILITY PRODUCTS