



HAMMERLESS PRODUCTS,
DESIGNED FOR HIGH-WEAR
AREAS ON MOBILE AND
STATIONARY MINING
EQUIPMENT



StronglockWearProducts.com

2022 Catalog

WHY STRONGLOCK?

SAFE

Hammerless

Blind Fastening System

VERSATILE

Adaptable to any brand machine attachment

Made to improve machine performance and production in all environmental elements

DURABLE

Built to support longer wear life and overall machine productivity

Made of high quality material

Sealed, reusable fastening system

Able to withstand extreme conditions
(including up to 2,000 degrees Fahrenheit)

COST EFFICIENT

Simple Installation: Easily weldable, and once welded, no special tools required for change outs

Easy Change Outs require no special removal process, can be completed in minutes and only requires a head square tool or impact gun

***REDUCE MAINTANANCE & DOWNTIME,
INCREASE ASSET AVAILABILITY***



STRONGLOCK products are custom oriented, are designed to withstand all elements, to be safe and to aid in the achievement of maximum production



PRODUCTS

Mechanical Fastening System, L-Shaped Wear Caps (protects corners) , Flat Wear Caps, Custom Wear Caps, Crushing and Conveying Liners, Hammerless Pin System

APPLICATIONS

Buckets, Excavators, Shovels, Loaders, Dozers, Scrapers, Crushers, Chutes, Transfer Chutes, along with any other High-wear area on any brand Earthmoving and Excavation Attachment

FEATURES

Custom oriented

Hammerless

Blind Fastening System

Easy installation and maintenance

Able to apply brick pattern, end to end, side to side, all angles, close fitting

Multiple metallurgical compounds and ceramics available for different applications

Environmentally Friendly-Up to 30% more usable material

***BUILT FOR ALL HIGH WEAR,
HIGH ABRASION AREAS***





**Original
Crusher**

**STRONGLOCK
Weld Bases**



**Wall repair under a
Gyratory Crusher
using the
STRONGLOCK
System**

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MINING PARTNERS CURRENTLY USING STRONGLOCK



Bagdad

Chino

Morenci Metcalf

Safford



Pinto Valley



Contact us!

Call Pat at: 602-672-8955

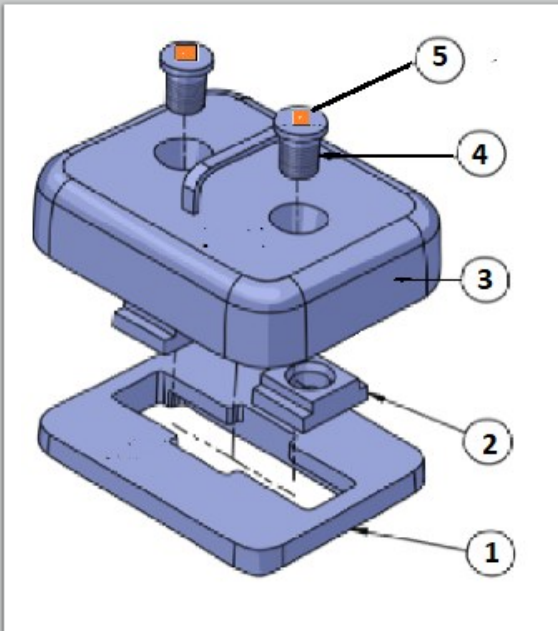
hem@phxcoxmail.com





STRONGLOCK HAMMERLESS SYSTEM

Order of Installation



STRONGLOCK™ FLAT WEAR PRODUCT SYSTEM

1. **WELD BASE:** Weld flat base for FIRST time installation only.
2. **PIN BASE:** REUSABLE, galvanized pin base.
The back side of pin base comes with two rubber shims to maintain the base in place.
3. **FLAT WEAR CAP – High Abrasion**
4. **PIN CAP:** REUSABLE threaded, galvanized pin cap. Pins can be tightened with torque wrench or impact gun. Torque on Pin Cap HPC25: 450 PSI and Pin Cap HPC1: 1200 PSI
5. **STOPPERS:** rubber inserts to prevent debris from settling for easy insert and removal.

WITH CHANGE-OUTS: Be sure to clean debris and dirt from the contact surface of the perimeter of the weld base and the face of the weld base.

STRONGLOCK™ L-SHAPED WEAR PRODUCT SYSTEM

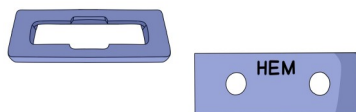
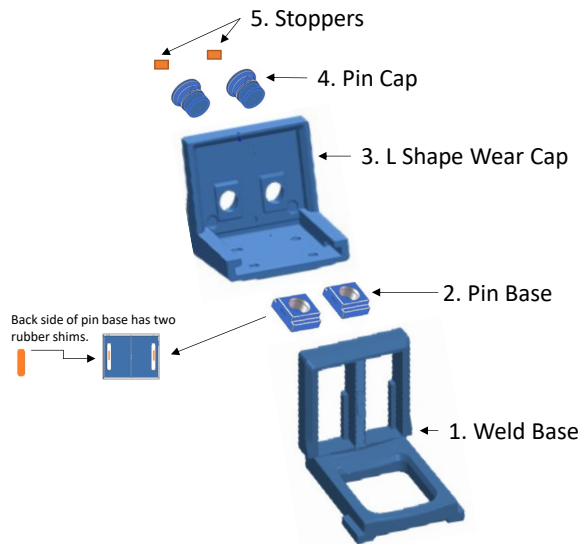
1. **WELD BASE:** Weld L Shaped base for FIRST time installation only.
2. **PIN BASE:** REUSABLE galvanized pin base
The back side of pin base comes with two rubber shims to maintain the base in place.
3. **L SHAPE WEAR CAP – High Abrasion**



4. **PIN CAP:** REUSABLE threaded, galvanized pin.
Pins can be tightened with torque wrench or impact gun. Torque on Pin Cap HPC25: 450 PSI and Pin Cap HPC1: 1200 PSI
5. **STOPPERS:** rubber inserts to prevent debris from settling for easy insert and removal.

WITH CHANGE-OUTS: Be sure to clean debris and dirt from the contact surface of the perimeter of the weld base and the face of the weld base.

Order of Installation

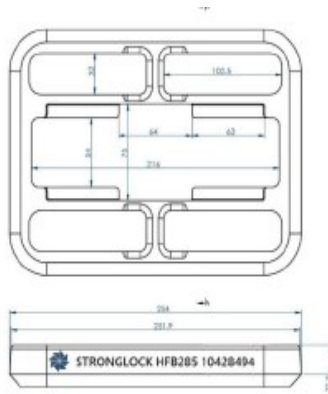


**AVAILABLE IN WHITE IRON,
CAST STEEL AND CERAMIC**

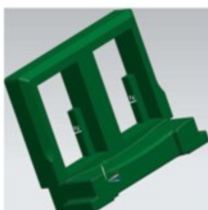
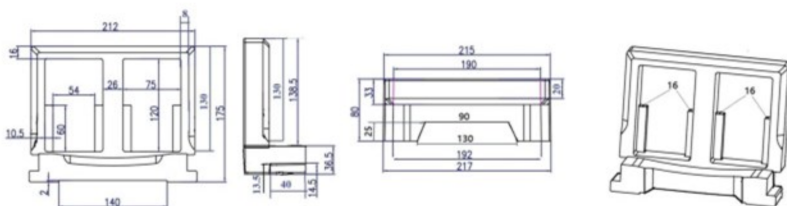
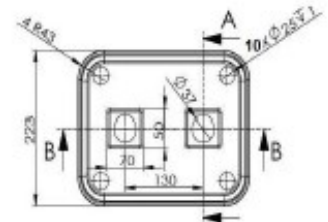


CAST IRON PRODUCT LISTINGS

CAST IRON WEAR RUN- NERS	STYLE	DIMENSIONS-INCHES				WEIGHT (LBS)	BASE	FASTENER	SQUARE HEAD TOOL NEEDED (INCHES)
		Length	Width	Thickness	Wearable Depth				
HLC175.55	L-SHAPE	7 1/8	6	6 7/8	3/4	24.5	HLB175	HPC25 (2) & HPB25 (2)	1/2
HLC260.76	L-SHAPE	9	9.5	10	1 1/2	55.5	HLB260/285	HPC1 (2) & HPB1 (2)	3/4
HFC205.45	FLAT	8.07	6.89	1.8	7/8	13	HFB205	HPC25 (2) & HPB25 (2)	1/2
HFC285.82	FLAT	11.22	8.8	3 1/8	2 1/4	56	HFB285	HPC1 (2) & HPB1(2)	3/4
HFC285.102	FLAT	11.22	8.8	4	3 1/4	71.65	HFB285	HPC1 (2) & HPB1(2)	3/4



BASE



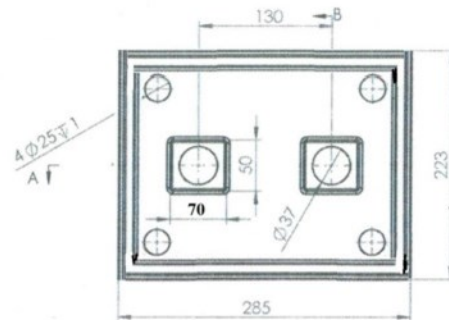
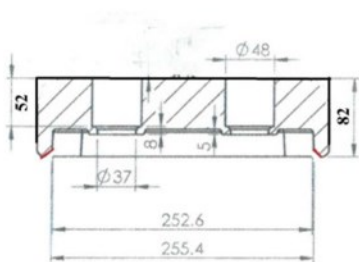
HEM HLB 150 BASE



WHITE IRON PRODUCT LISTINGS

WHITE IRON	STYLE	DIMENSIONS-INCHES				WEIGHT (LBS)	BASE	FASTENER	SQUARE HEAD TOOL NEEDED (INCHES)
WEAR RUNNERS		Length	Width	Thickness	Wearable Depth				
HFWC205.56	FLAT	8.07	6.89	2.04	1.25	21.6	HFB205	HPC25 (2) & HPB25 (2)	1/2
HFWC285.82	FLAT	11.22	8.8	3 1/8	2 1/4	61	HFB285	HPB1(2) & HPC1(2)	3/4
HFC285.102	FLAT	11.22	8.8	3 1/8	2 7/8	77.16	HFB285	HPB1 (2) & HPC1 (2)	3/4
HFWC4412	FLAT	11 3/4	4	4	2 7/8	40.8	HFB4412	HPB25 (2) & HPC25.1 (2)	1/2
HFWC3412	FLAT	11 3/4	4	3	1 7/8	30	HFB4412	HPB25 (2) & HPC25.1 (2)	1/2
HFWC450.82	FLAT	17.72	11.5	3	1 7/8	111	HFB450	HPB1 (2) & HPC1 (2)	3/4
HFWC285X143.82	FLAT	11.22	5.04	3.12	2.19	30	HFB285X143	HPB1 (2) & HPC1 (2)	3/4
HFWC285X128.82	FLAT	11.22	5.04	3.27	2.25	40.8	HFB285X128	HPB1 (2) & HPC1 (2)	3/4
HFWC223X143.82	FLAT	8.78	5.63	3.27	2.25	31	HFB223	HPB1 (2) & HPC1 (2)	3/4
HFWC205X102.56	FLAT	8.07	4	2.2	1.1	13.5	HFB205X102	HPB25 (2) & HPC25.1 (2)	1/2
HFWC205X102.82	FLAT	8.07	4	3.23	2.19	22	HFB205X102	HPB25 (2) & HPC25.1 (2)	1/2
HFWC205X102.102	FLAT	8.07	4	4	2.89	29	HFB205X102	HPB25 (2) & HPC25.1 (2)	1/2
HLWC150.100	L-SHAPE	10	6	10.5	4	74.75	HLB150	HPB1 (2) & HPC1 (2)	3/4
HLWC147X292X295	L-SHAPE	11 3/4	9.52	5.5	4	131	HLB150	HPB1 (2) & HPC1 (2)	3/4
HLWC147X250X295	L-SHAPE	10	6	10.5	4	106	HLB150	HPB1 (2) & HPC1 (2)	3/4

WHITE IRON HFWC285.82

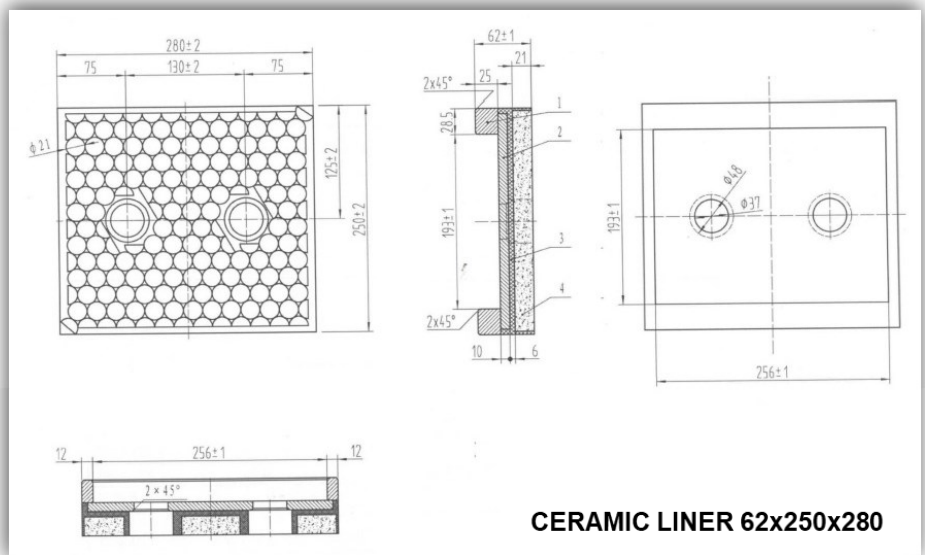
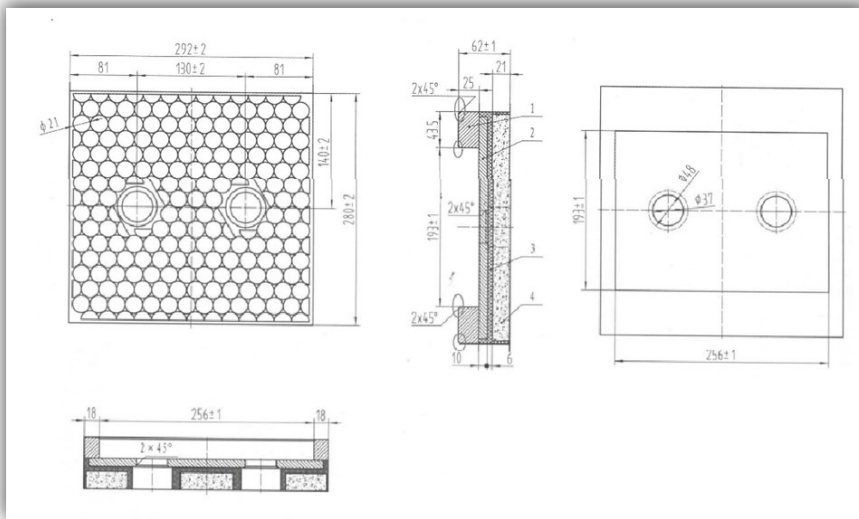


WE ARE CONTINUOUSLY INNOVATING & ENGINEERING NEW PRODUCTS TO MAXIMIZE PRODUCTION, AND MINIMIZE DOWNTIME IN DIFFERENT APPLICATIONS



CERAMIC PRODUCT LISTINGS

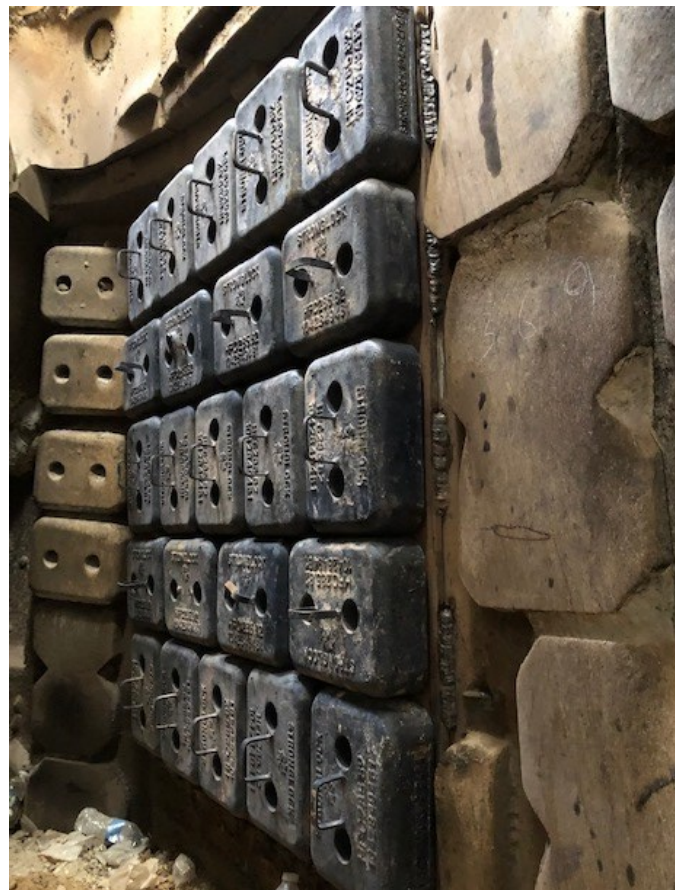
CERAMIC	STYLE	DIMENSIONS-INCHES				WEIGHT (LBS)	BASE	FASTENER	SQUARE HEAD TOOL NEEDED (INCHES)
WEAR RUNNERS		Length	Width	Thickness	Wearable Depth				
HFRCC142X438X121	FLAT	17.24	5.59	4.76	3.68	54.1	HFB14.80	HPC25.1(2) & HPB25 (2)	1/2
HFRCC142X500X121	FLAT	19.69	5.59	4.76	3.68	57.8	HFB14.80	HPC25.1(2) & HPB25 (2)	1/2
HFRCC142X584X121	FLAT	22.99	5.59	4.76	3.68	61.8	HFB14.80	HPC25.1(2) & HPB25 (2)	1/2
HFRCC88X500X121	FLAT	19.69	5.59	3.46	2.68	47.24	HFB14.80	HPC25.1(2) & HPB25 (2)	1/2
HFRCC88X584X121	FLAT	22.99	5.59	3.46	2.68	50.24	HFB14.80	HPC25.1(2) & HPB25 (2)	1/2
HFRCC88X438X121	FLAT	17.24	5.59	3.46	2.68	46.8	HFB14.80	HPC25.1(2) & HPB25 (2)	1/2
HFRCC75X292X280	FLAT	11.22	8.8	3	1.88	45.1	HFB285	HPC1.1(2) & HPB1 (2)	3/4
HFRCC62X292X280	FLAT	11.22	8.8	2.44	1.39	39.1	HFB285	HPC1.1(2) & HPB1 (2)	3/4
HFRCC62X250X280	FLAT	11.02	9.84	2.44	1.39	37.8	HFB285	HPC1.1(2) & HPB1 (2)	3/4



CERAMIC LINER 62x250x280

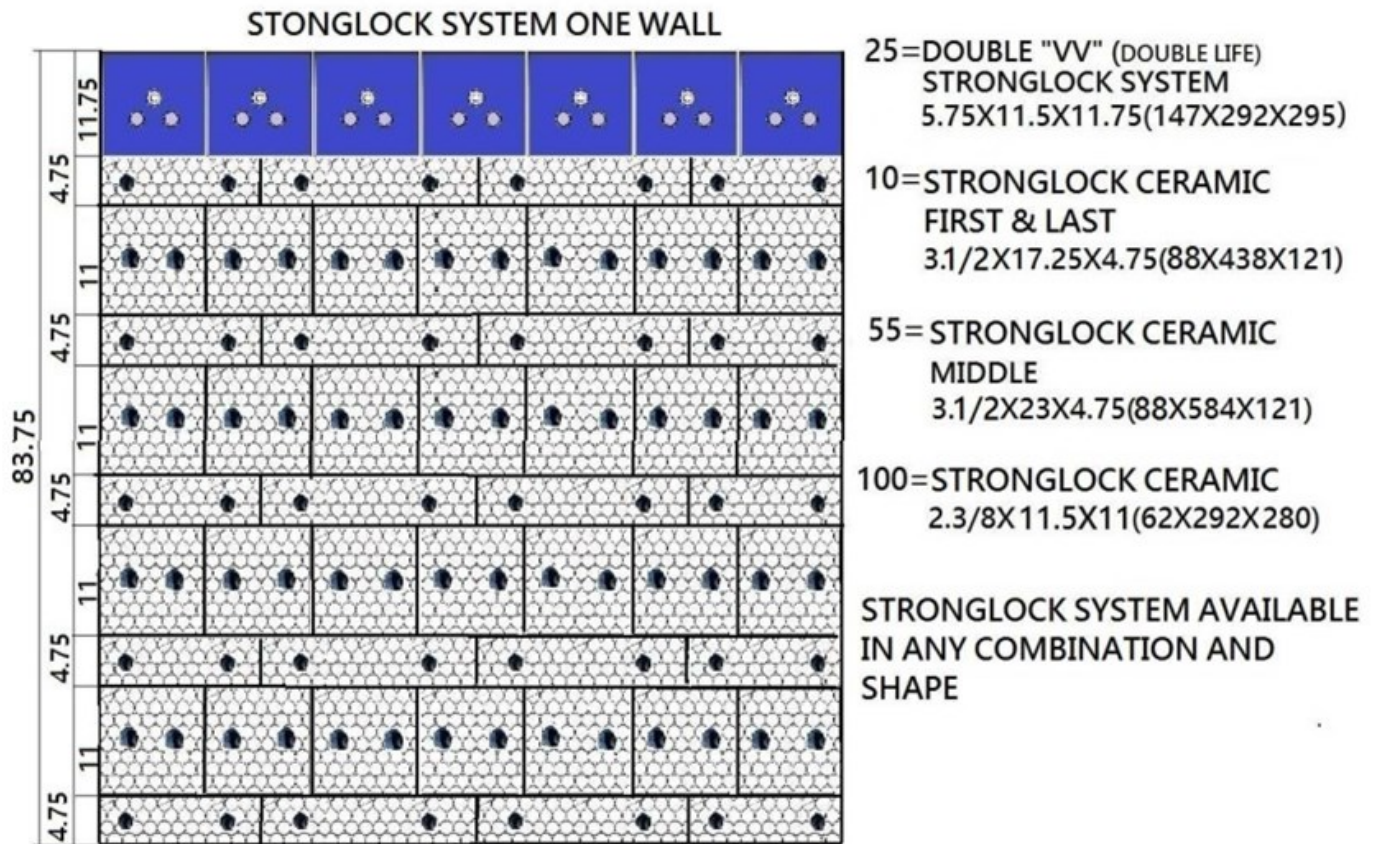








CUSTOM FABRICATION AND ENGINEERING

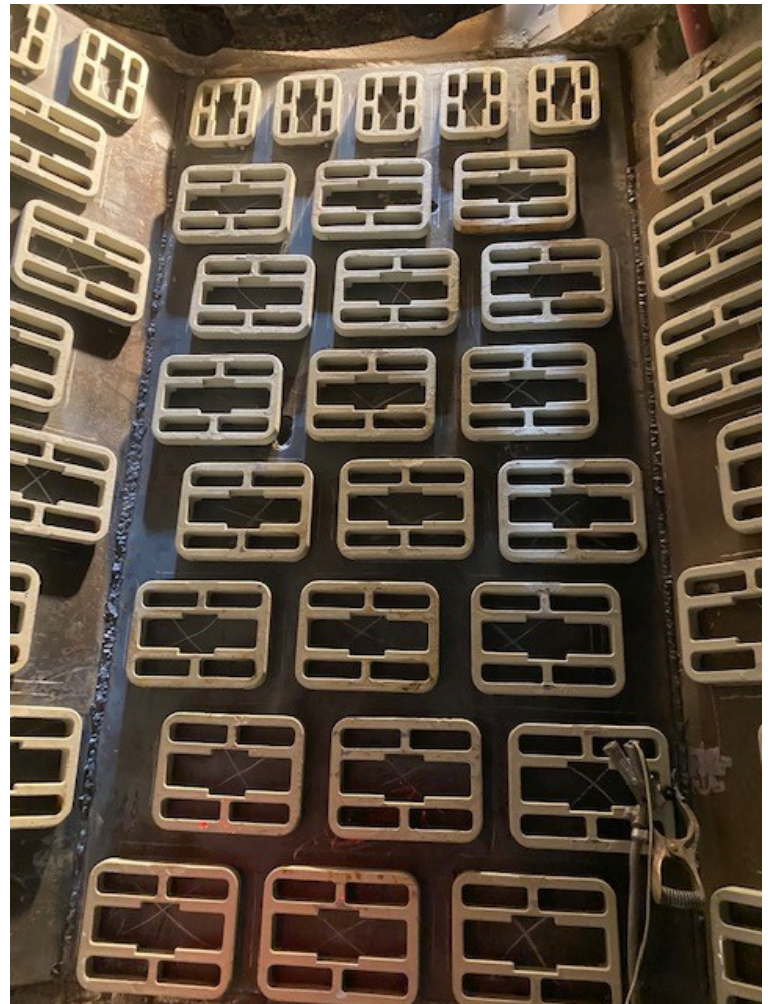


**AVAILABLE FOR TRANSFER CHUTES,
APRON FEEDERS AND DROP POINTS**





*We can design and
build a transfer chute
with the **STRONGLOCK**
System built-in*

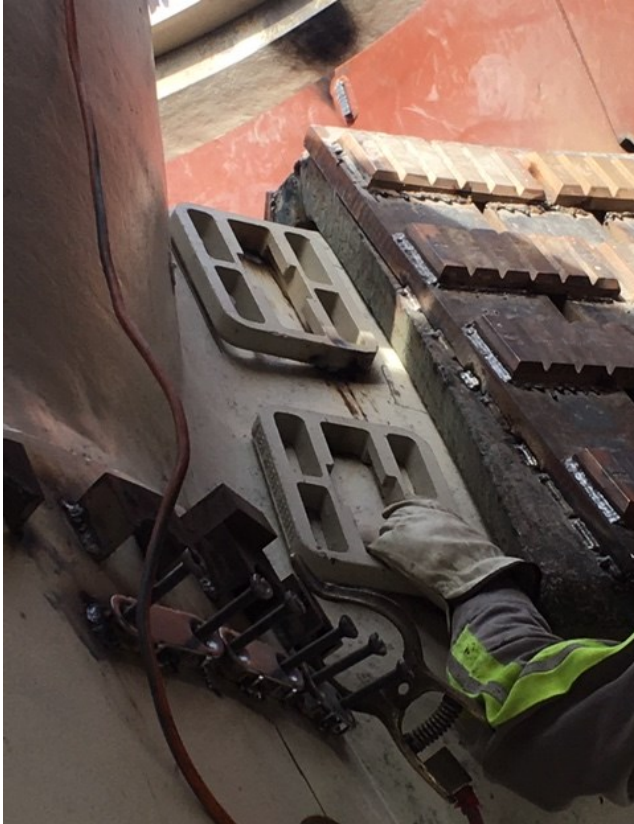


STRONGLOCK Weld Bases

**Under crusher wall
repair with
STRONGLOCK
System**

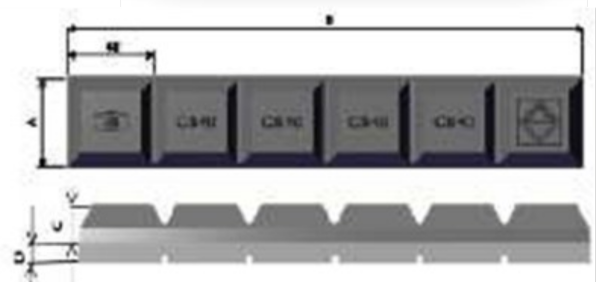


CHOCKY BARS



CHOCKY BARS

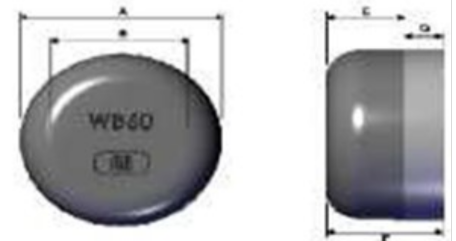
PART NUMBER	ALL DIMENSIONS ARE IN INCHES				WEIGHT (lbs)
	A	B	C	D	
CB25N	1	9 7/16	19/32	5/16	2.0
CB40N	1 9/16	9 7/16	19/32	5/16	3.3
CB50N	1 15/16	9 7/16	19/32	5/16	4.2
CB65N	2 9/16	9 7/16	19/32	5/16	5.5
CB90N	3 9/16	9 7/16	19/32	5/16	7.9
CB100N	3 15/16	9 7/16	19/32	5/16	8.6
CB130N	5 1/8	9 7/16	19/32	5/16	11.5



NOTCHED CHOCKY BAR

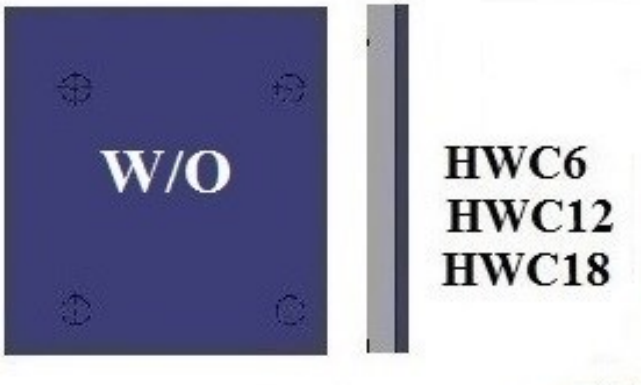
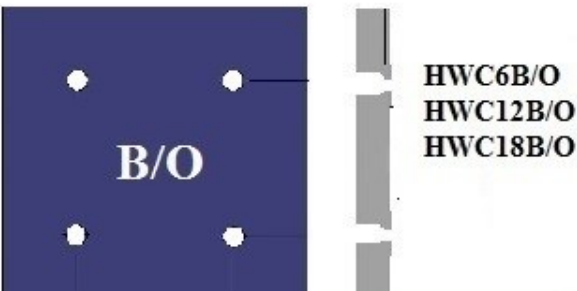
WEAR BUTTONS

PART NUMBER	ALL DIMENSIONS ARE IN INCHES					WEIGHT (lbs)
	A	B	C	D	E	
WB60	2 3/8	1 9/16	13/16	3/8	1 3/16	1.5
WB75	2 15/16	2 3/16	13/16	3/8	1 3/16	2.3
WB90	3 9/16	2 3/4	13/16	3/8	1 3/16	3.3
WB115	4 1/2	3 3/4	13/16	1/2	1 1/4	5.8
WB150	5 7/8	5 1/8	1	5/8	1 5/8	12.7



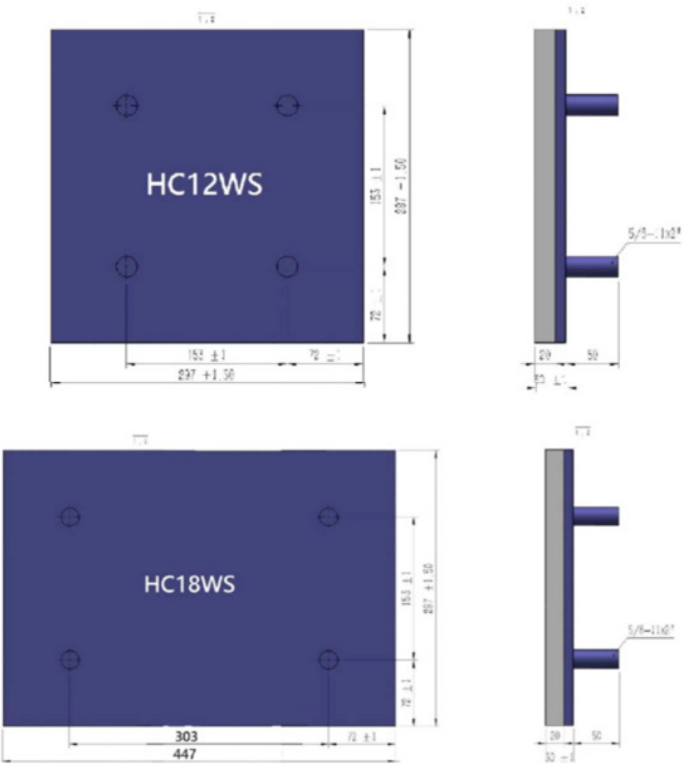
WHITE IRON WEAR PLATES

BOLT ON



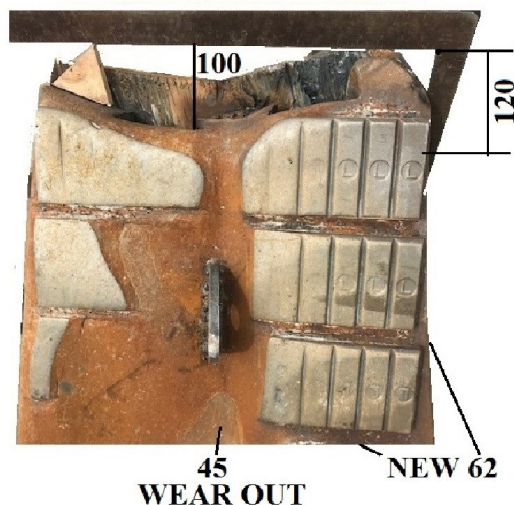
WELD ON

STUDDED





Arm Guard Liners with Chocky Bars (Chocky Bars doubled the life the of the Liner)



Installing Stronglock liners in the exposed area to protect gyratory crusher

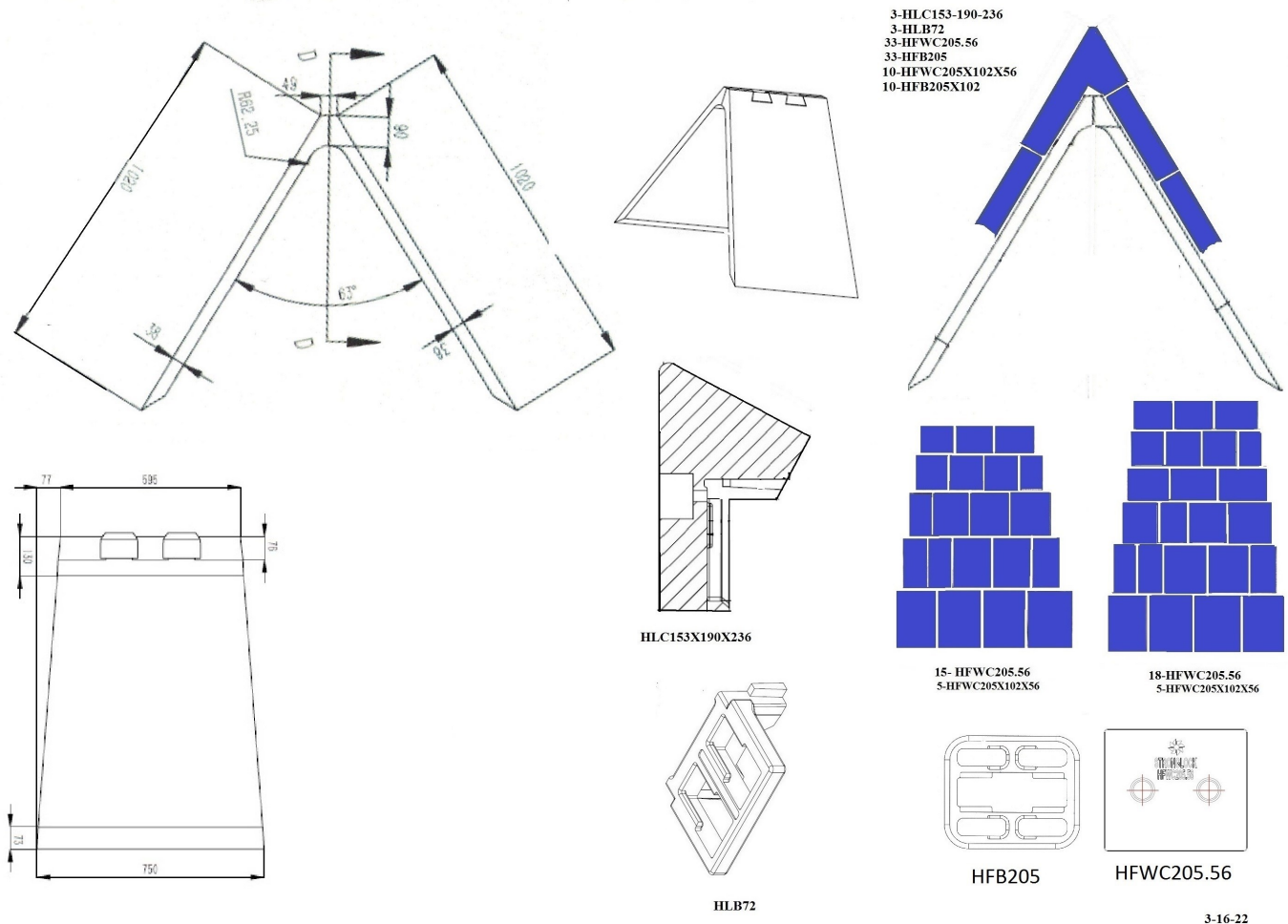
This is the wear after 1 year of service with just Chocky Bars



STRONGLOCK System implemented into high wear area which improved production from 1 year to 2 years



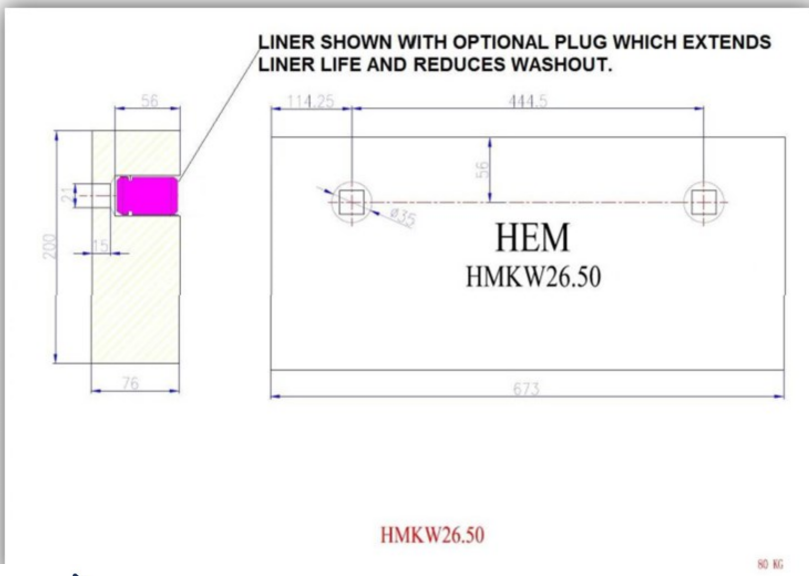
GYRATORY CRUSHER LINERS



With STRONGLOCK you do not have to remove the spider cap to change the worn liner which equals less downtime and more productivity

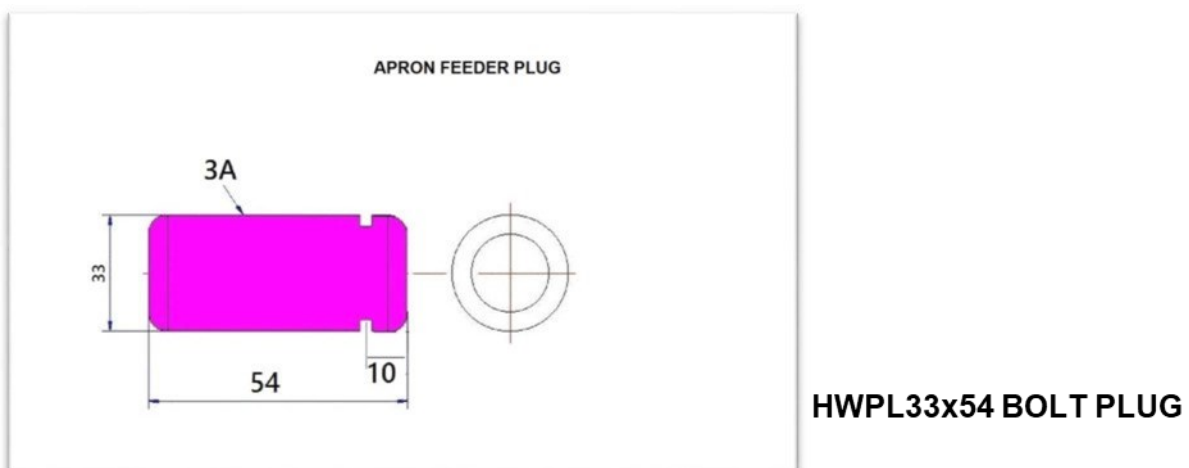
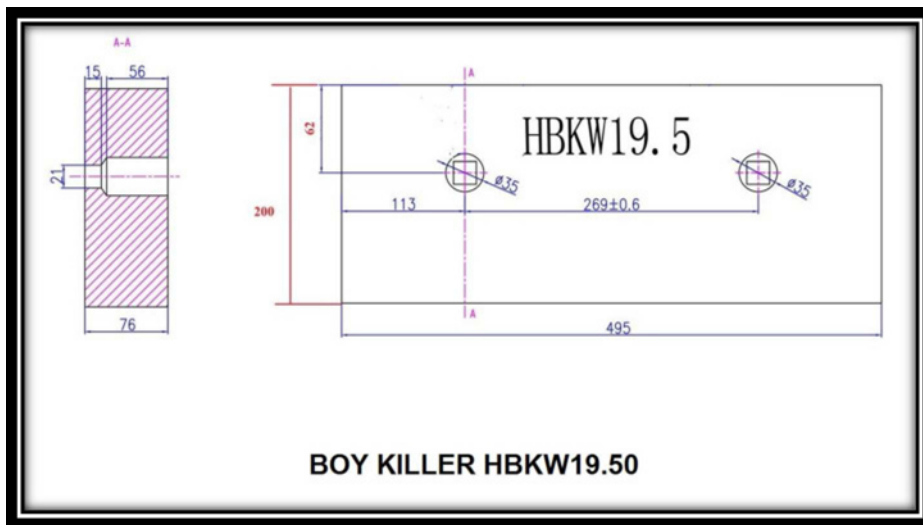
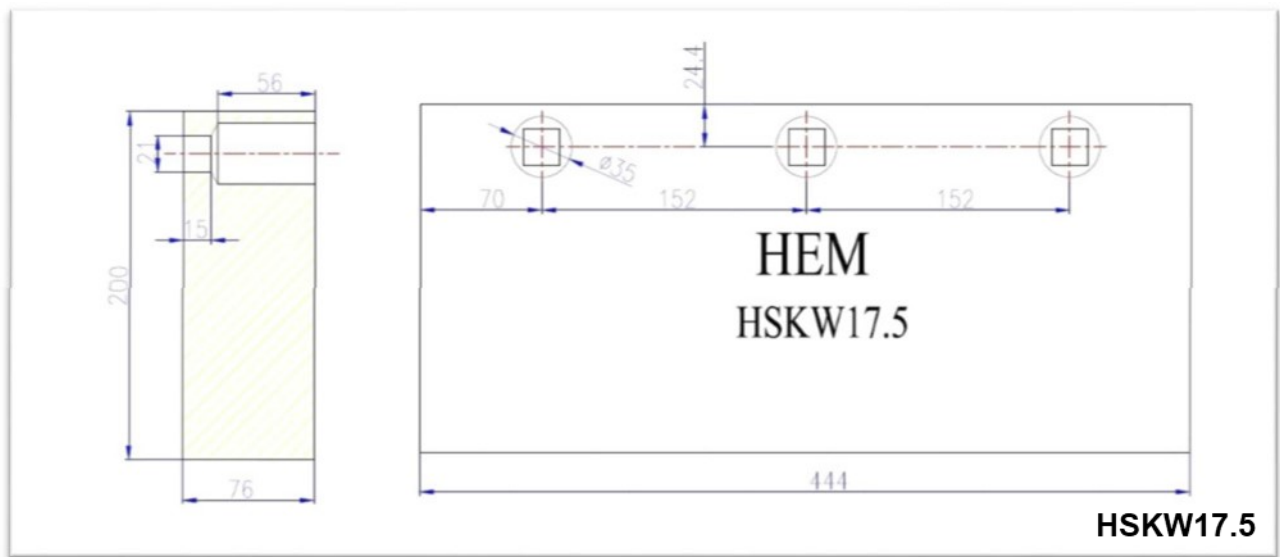


APRON FEEDER LINERS AND SKIRT LINERS



**1 Year= 57,000 hours
of Run Time which
resulted in only 10%
wear**





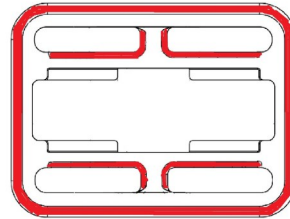
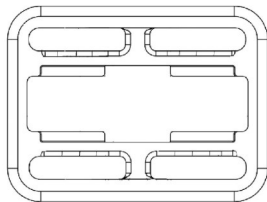
Utilizing Stronglock™ with the Ceramics



STRONGLOCK WELDING PROCEDURE

INSTALLATION

Welding the Flat Weld Bases



BOTTOM/BEVELLED
SIDE

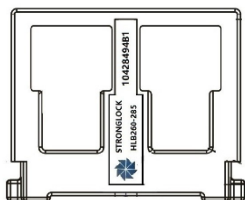
When welding the bases, be sure to weld the areas that are indicated in red on the bevelled side of the base. 7018 welding rod or similar required for weld attachment



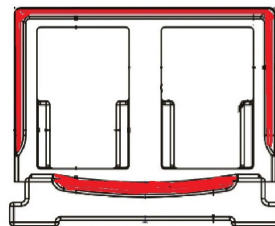
SIDE View

INSTALLATION

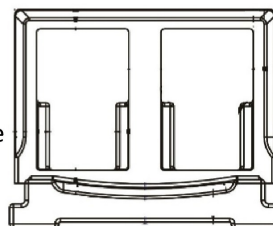
Welding the L-Shape Weld Bas



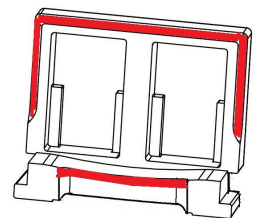
FRONT



Backside

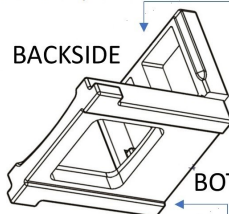


Bottom

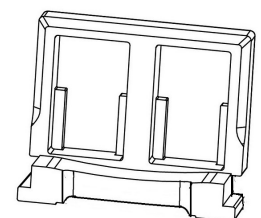
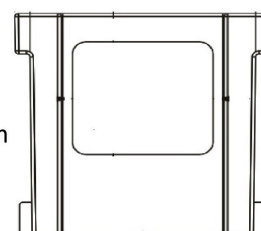
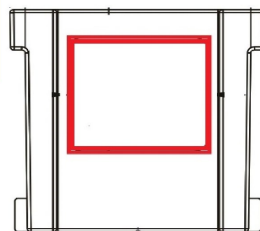


When welding the bases, be sure to weld the areas that are indicated in red on the back side as well as the bottom side of the base. 7018 welding rods or similar wire required for weld attachment.

BACKSIDE



BOTTOM







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