

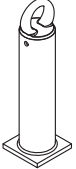
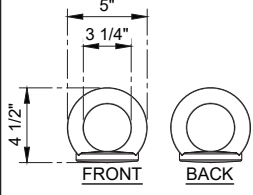
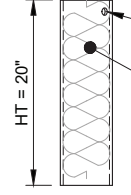

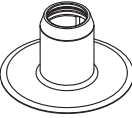
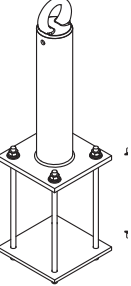
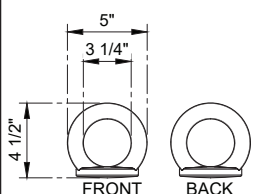
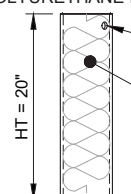
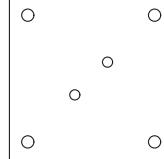
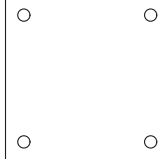
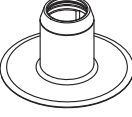

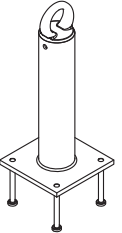
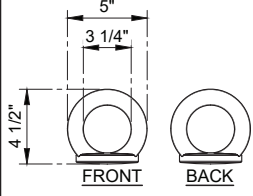
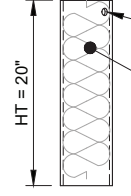
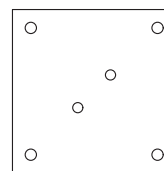

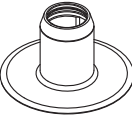
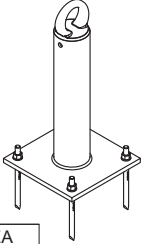
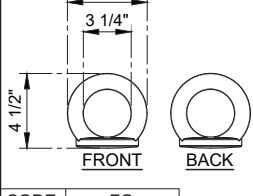
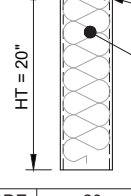
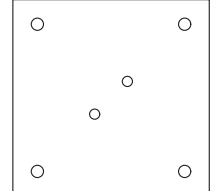
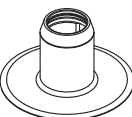
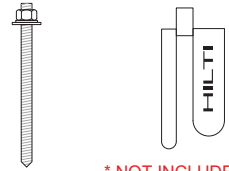
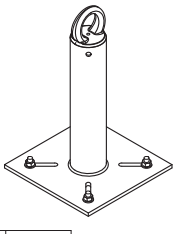
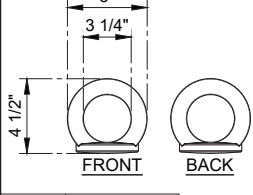
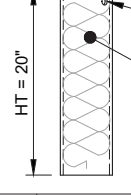
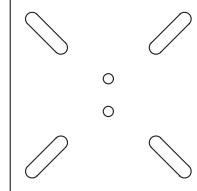
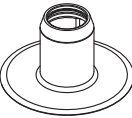



**FLEXIBLE LIFELINE SYSTEMS**  
AT THE HEIGHT OF INNOVATION

## RIGID ROOF ANCHOR (RA) WITH FORGE D-RING FIXING TYPE AND PART LIST

ISSUE	DATE	BY	DESCRIPTION
A	18-SEP-19	AM	ISSUED FOR REVIEW & APPROVAL
B	27-JAN-20	AM	ISSUED FOR REVIEW & APPROVAL
C	18-FEB-20	AM	ISSUED FOR REVIEW & APPROVAL
D	26-FEB-20	AM	ISSUED FOR REVIEW & APPROVAL

IDEAL FOR:  
- FALL PROTECTION  
- PERMANENT SUSPENSION  
- EQUIPMENT TIE-BACK

ANCHOR TYPE	ANCHOR HEAD	POST	BASE PLATE	BACKING PLATE	DRAIN HOLE PLUG	WELD STUD	PRODUCT CODE	FLASHING (OPTIONAL)	PRODUCT CODE	FIXINGS (OPTIONAL)	PRODUCT CODE	REMARKS / NOTES
<b>WELDED</b> 	<b>FORGE D-RING</b>  CODE: FG FIN. H.D.G. QTY. 1 WT: 4.2 lbs	<b>HSS 41/2x1/4 FILLED WITH POLYURETHANE INSULATION</b>  HT = 20" DRAIN HOLE INSU VOL = 259 in <sup>3</sup> CODE: 20 FIN. H.D.G. QTY. 1 WT: 18.0 lbs	<b>PL 5/8x6x6</b>  CODE: 6 FIN. H.D.G. QTY. 1 WT: 6.4 lbs	X	X	X	<b>RA-WO-FG-6-20</b>	 FIN. ALUM QTY. 1	<b>FL-BITIMEN</b>	X	X	50/PALLET
												CODE: WO WT: 28.5 lbs
<b>BOLT AROUND</b> 	<b>FORGE D-RING</b>  CODE: FG FIN. H.D.G. QTY. 1 WT: 4.2 lbs	<b>HSS 41/2x1/4 FILLED WITH POLYURETHANE INSULATION</b>  HT = 20" DRAIN HOLE INSU VOL = 259 in <sup>3</sup> CODE: 20 FIN. H.D.G. QTY. 1 WT: 18.0 lbs	<b>PL 5/8x10x10</b>  CODE: 10 FIN. H.D.G. QTY. 1 WT: 17.8 lbs	<b>PL 1/2x10x10</b>  160/PALLET CODE: 10 (BOT) FIN. PAINTED QTY. 1 WT: 14.2 lbs	X	X	<b>RA-BA-FG-10-20</b>  MAX BEAM FLANGE WIDTH = 7"  MAX BEAM WEB DEPTH = 12"	 FIN. ALUM QTY. 1	<b>FL-BITIMEN</b>	<b>5/8" DIA BLACK OXIDE FULLY THREADED ROD SET (GRADE B7)</b>  16" 1X ROD: B7 2X NUTS: A194 GR. 2H 2X FLAT WASHERS: F436 2X LOCK WASHERS  * NOT INCLUDED IN SELL PRICE  OPTIONAL: SST QTY. 4 SETS	<b>SA-RA-B7-THR58-16</b>	20/PALLET  160/PALLET FOR PL 1/2x10x10 CODE: 10 (BOT))
												CODE: BA WT: 39.5 lbs
<b>EMBEDDED</b> 	<b>FORGE D-RING</b>  CODE: FG FIN. H.D.G. QTY. 1 WT: 4.2 lbs	<b>HSS 41/2x1/4 FILLED WITH POLYURETHANE INSULATION</b>  HT = 20" DRAIN HOLE INSU VOL = 259 in <sup>3</sup> CODE: 20 FIN. H.D.G. QTY. 1 WT: 18.0 lbs	<b>PL 5/8x10x10</b>  CODE: 10 FIN. H.D.G. QTY. 1 WT: 17.8 lbs	X	X	<b>5/8" DIA X 6 9/16" (H4L) NELSON STUD</b>  FIN. H.D.G. QTY. 4	<b>RA-CP-FG-10-20</b>  MIN. CONCRETE COMPRESSIVE STRENGTH = 3000 PSI  MIN. CONCRETE SLAB THK = 7"	 FIN. ALUM QTY. 1	<b>FL-BITIMEN</b>	X	X	20/PALLET
												CODE: CP WT: 39.5 lbs
<b>CHEMICAL ADHESIVE</b> 	<b>FORGE D-RING</b>  CODE: FG FIN. H.D.G. QTY. 1 WT: 4.2 lbs	<b>HSS 41/2x1/4 FILLED WITH POLYURETHANE INSULATION</b>  HT = 20" DRAIN HOLE INSU VOL = 259 in <sup>3</sup> CODE: 20 FIN. H.D.G. QTY. 1 WT: 18.0 lbs	<b>PL 5/8x12x12</b>  CODE: 12 FIN. H.D.G. QTY. 1 WT: 25.6 lbs	X	X	FIN. ALUM QTY. 1	<b>RA-EA-FG-12-20</b>  MIN. CONCRETE COMPRESSIVE STRENGTH = 3000 PSI  MIN. CONCRETE SLAB THK = 8"	 FIN. ALUM QTY. 1	<b>FL-BITIMEN</b>	<b>5/8" DIA x 7 5/8" HILTI HAS-R 304 SS ANCHOR ROD SET</b>  EPOXY CARTRIDGE * NOT INCLUDED IN SELL PRICE  FIN. SST TYPE HILTI-HY 200 QTY. 4 QTY. 1 x 11.1 OZ	<b>RA-SS58-758-HILTI</b>	20/PALLET
												CODE: EA WT: 47.8 lbs
<b>BOLT ON</b> 	<b>FORGE D-RING</b>  CODE: FG FIN. H.D.G. QTY. 1 WT: 4.2 lbs	<b>HSS 41/2x1/4 FILLED WITH POLYURETHANE INSULATION</b>  HT = 20" DRAIN HOLE INSU VOL = 259 in <sup>3</sup> CODE: 20 FIN. H.D.G. QTY. 1 WT: 18.0 lbs	<b>PL 5/8x12x12</b>  CODE: 12 FIN. H.D.G. QTY. 1 WT: 25.6 lbs	X	X	FIN. ALUM QTY. 1	<b>RA-BC-FG-12-20</b>  MAX BEAM FLANGE WIDTH = 8"  MIN BEAM FLANGE WIDTH = 5"	 FIN. ALUM QTY. 1	<b>FL-BITIMEN</b>	<b>BA (SIZE 1,2,3) G20 OR BT (SIZE 1,2) G20 (FOR TAPERED FLANGES) W/ 3/4" DIA BOLT, 2 1/2" LG</b>  * NOT INCLUDED IN SELL PRICE  FIN. H.D.G. QTY. 4	<b>RA-BA1G20-75-25</b>	20/PALLET
												CODE: BC WT: 45.9 lbs

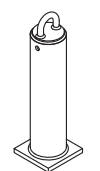
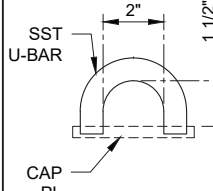
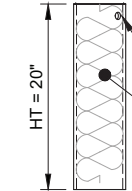
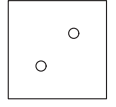


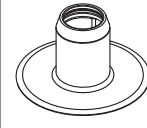
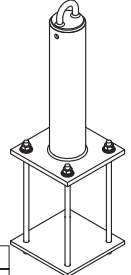
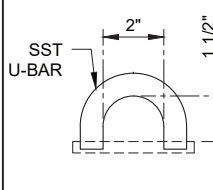
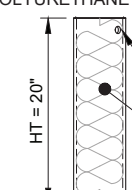
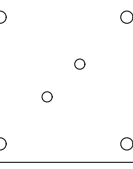
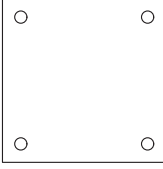


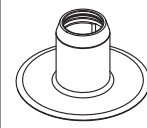
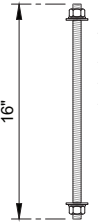
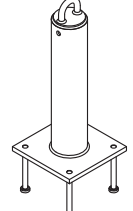
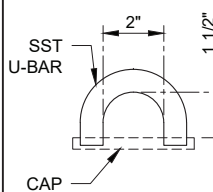
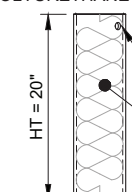
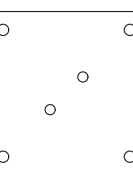



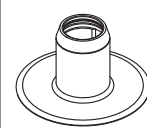
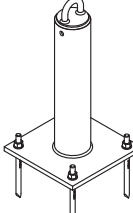
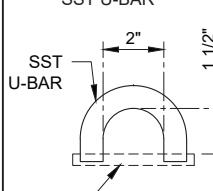
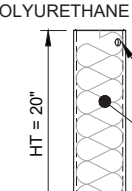
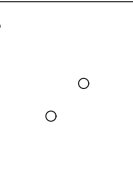


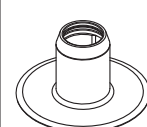
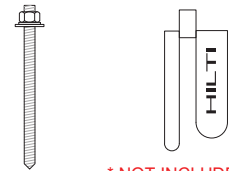
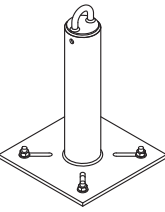
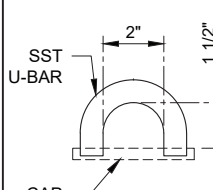
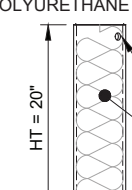
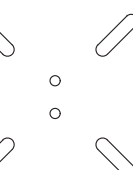


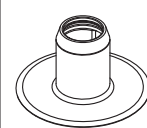

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**RIGID ROOF ANCHOR (RA) WITH U-BAR FIXING TYPE AND PART LIST**

ISSUE	DATE	BY	DESCRIPTION
A	18-SEP-19	AM	ISSUED FOR REVIEW & APPROVAL
B	27-JAN-20	AM	ISSUED FOR REVIEW & APPROVAL
C	18-FEB-20	AM	ISSUED FOR REVIEW & APPROVAL
D	26-FEB-20	AM	ISSUED FOR REVIEW & APPROVAL

**IDEAL FOR:**  
- FALL PROTECTION  
- PERMANENT SUSPENSION  
- EQUIPMENT TIE-BACK

ANCHOR TYPE	ANCHOR HEAD	POST	BASE PLATE	BACKING PLATE	CAPPING	DRAIN HOLE PLUG	WELD STUD	PRODUCT CODE	FLASHING (OPTIONAL)	PRODUCT CODE	FIXINGS (OPTIONAL)	PRODUCT CODE	REMARKS / NOTES																																															
<b>WELDED</b> 	SST U-BAR  CAP PL <table border="1"> <tr><td>CODE:</td><td>ST</td></tr> <tr><td>FIN.</td><td>H.D.G.</td></tr> <tr><td>QTY.</td><td>1</td></tr> <tr><td>WT:</td><td>0.73 lbs</td></tr> </table>	CODE:	ST	FIN.	H.D.G.	QTY.	1	WT:	0.73 lbs	HSS 41/2x1/4 FILLED WITH POLYURETHANE INSULATION  DRAIN HOLE INSU VOL = 259 in <sup>3</sup> <table border="1"> <tr><td>CODE:</td><td>20</td></tr> <tr><td>FIN.</td><td>H.D.G.</td></tr> <tr><td>QTY.</td><td>1</td></tr> <tr><td>WT:</td><td>18.0 lbs</td></tr> </table>	CODE:	20	FIN.	H.D.G.	QTY.	1	WT:	18.0 lbs	PL 5/8x6x6  <table border="1"> <tr><td>CODE:</td><td>6</td></tr> <tr><td>FIN.</td><td>H.D.G.</td></tr> <tr><td>QTY.</td><td>1</td></tr> <tr><td>WT:</td><td>6.4 lbs</td></tr> </table>	CODE:	6	FIN.	H.D.G.	QTY.	1	WT:	6.4 lbs	X	PL 3/8"x4 1/8" DIA CIRCULAR PLATE  <table border="1"> <tr><td>FIN.</td><td>H.D.G.</td></tr> <tr><td>QTY.</td><td>1</td></tr> <tr><td>WT:</td><td>1.3 lbs</td></tr> </table>	FIN.	H.D.G.	QTY.	1	WT:	1.3 lbs	 <table border="1"> <tr><td>FIN.</td><td>ALUM</td></tr> <tr><td>QTY.</td><td>1</td></tr> </table>	FIN.	ALUM	QTY.	1	X	RA-WO-ST-6-20  <table border="1"> <tr><td>FIN.</td><td>ALUM</td></tr> <tr><td>QTY.</td><td>1</td></tr> </table>	FIN.	ALUM	QTY.	1	FL-BITIMEN	X	X	50/PALLET										
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<b>BOLT AROUND</b> 	SST U-BAR  CAP PL <table border="1"> <tr><td>CODE:</td><td>ST</td></tr> <tr><td>FIN.</td><td>H.D.G.</td></tr> <tr><td>QTY.</td><td>1</td></tr> <tr><td>WT:</td><td>0.73 lbs</td></tr> </table>	CODE:	ST	FIN.	H.D.G.	QTY.	1	WT:	0.73 lbs	HSS 41/2x1/4 FILLED WITH POLYURETHANE INSULATION  DRAIN HOLE INSU VOL = 259 in <sup>3</sup> <table border="1"> <tr><td>CODE:</td><td>20</td></tr> <tr><td>FIN.</td><td>H.D.G.</td></tr> <tr><td>QTY.</td><td>1</td></tr> <tr><td>WT:</td><td>18.0 lbs</td></tr> </table>	CODE:	20	FIN.	H.D.G.	QTY.	1	WT:	18.0 lbs	PL 5/8x10x10  <table border="1"> <tr><td>CODE:</td><td>10</td></tr> <tr><td>FIN.</td><td>H.D.G.</td></tr> <tr><td>QTY.</td><td>1</td></tr> <tr><td>WT:</td><td>17.8 lbs</td></tr> </table>	CODE:	10	FIN.	H.D.G.	QTY.	1	WT:	17.8 lbs	PL 1/2x10x10  160/PALLET <table border="1"> <tr><td>CODE:</td><td>10 (BOT)</td></tr> <tr><td>FIN.</td><td>PAINTED</td></tr> <tr><td>QTY.</td><td>1</td></tr> <tr><td>WT:</td><td>14.2 lbs</td></tr> </table>	CODE:	10 (BOT)	FIN.	PAINTED	QTY.	1	WT:	14.2 lbs	PL 3/8"x4 1/8" DIA CIRCULAR PLATE  <table border="1"> <tr><td>FIN.</td><td>H.D.G.</td></tr> <tr><td>QTY.</td><td>1</td></tr> <tr><td>WT:</td><td>1.3 lbs</td></tr> </table>	FIN.	H.D.G.	QTY.	1	WT:	1.3 lbs	 <table border="1"> <tr><td>FIN.</td><td>ALUM</td></tr> <tr><td>QTY.</td><td>1</td></tr> </table>	FIN.	ALUM	QTY.	1	X	RA-BA-ST-10-20  <table border="1"> <tr><td>FIN.</td><td>ALUM</td></tr> <tr><td>QTY.</td><td>1</td></tr> </table>	FIN.	ALUM	QTY.	1	FL-BITIMEN	5/8" DIA BLACK OXIDE FULLY THREADED ROD SET (GRADE B7)  1X ROD: B7 2X NUTS: A194 GR. 2H 2X FLAT WASHERS: F436 2X LOCK WASHERS * NOT INCLUDED IN SELL PRICE OPTIONAL: SST <table border="1"> <tr><td>QTY.</td><td>4 SETS</td></tr> </table>	QTY.	4 SETS	RA-B7-THR58-16	20/PALLET  160/PALLET FOR PL 1/2x10x10 CODE: 10 (BOT)
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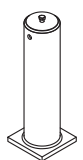
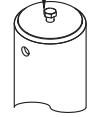
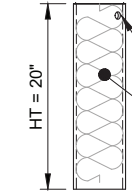
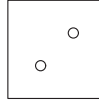
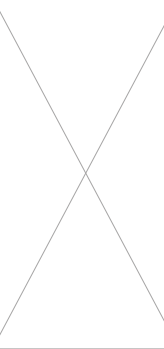


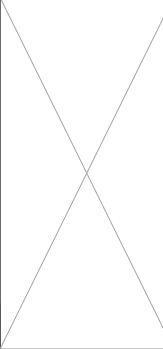
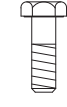
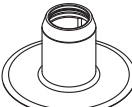
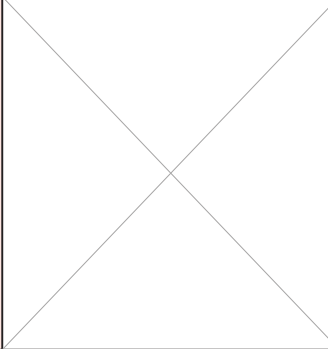
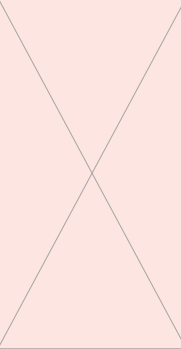
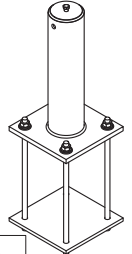
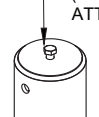
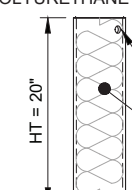
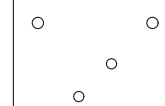
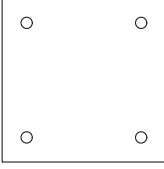
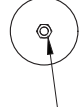

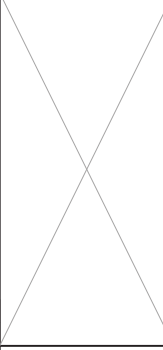

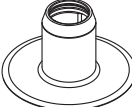
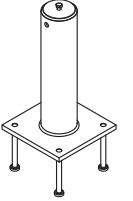
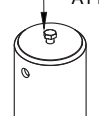
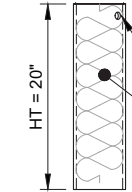
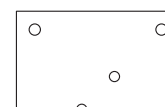
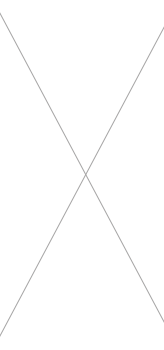



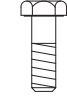
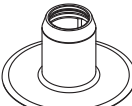
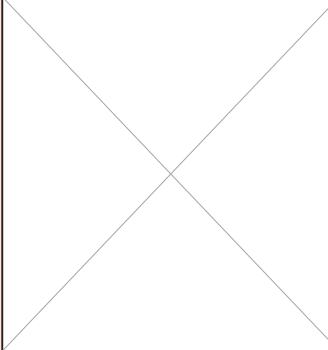
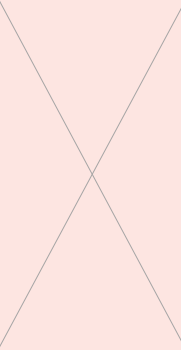
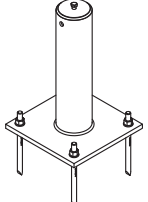
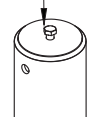
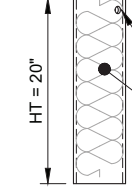
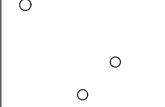
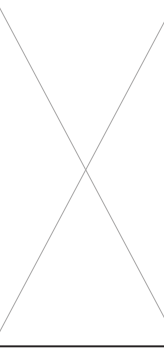
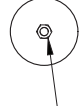

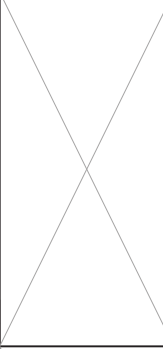

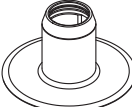

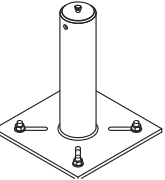
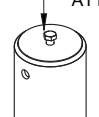
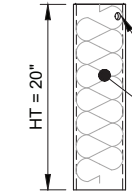
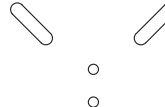
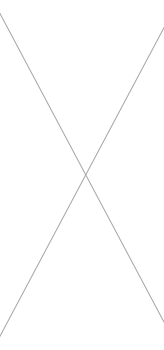


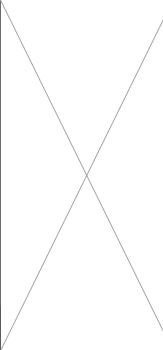
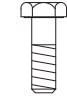


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# RIGID ROOF ANCHOR (RA) WITH TAPPED HOLE TYPE AND PART LIST

ISSUE	DATE	BY	DESCRIPTION
A	18-SEP-19	AM	ISSUED FOR REVIEW & APPROVAL
B	27-JAN-20	AM	ISSUED FOR REVIEW & APPROVAL
C	18-FEB-20	AM	ISSUED FOR REVIEW & APPROVAL
D	26-FEB-20	AM	ISSUED FOR REVIEW & APPROVAL

IDEAL FOR:  
- FALL PROTECTION  
- HORIZONTAL LIFELINES

ANCHOR TYPE	ANCHOR HEAD	POST	BASE PLATE	BACKING PLATE	CAPPING	DRAIN HOLE PLUG	WELD STUD	BOLT	PRODUCT CODE	FLASHING (OPTIONAL)	PRODUCT CODE	FIXINGS (OPTIONAL)	PRODUCT CODE	REMARKS / NOTES
<b>WELDED</b> 	M12 SST BOLT (FOR FITTING ATTACHMENT)  CODE: CP FIN. SS QTY. 1 WT: 0.04 lbs	HSS 41/2x1/4 FILLED WITH POLYURETHANE INSULATION DRAIN HOLE INSU VOL = 259 in <sup>3</sup> HT = 20"  CODE: 20 FIN. H.D.G. QTY. 1 WT: 18.0 lbs	PL 5/8x6x6  CODE: 6 FIN. H.D.G. QTY. 1 WT: 6.4 lbs		PL 3/8"x4 1/8" DIA CIRCULAR PLATE M12 SST HEX NUT  FIN. H.D.G. QTY. 1 WT: 1.4 lbs	 FIN. ALUM QTY. 1		M12X40 A4-80  FIN. SS QTY. 1	RA-WO-CP-6-20	 FIN. ALUM QTY. 1	FL-BITIMEN			50/PALLET
<b>BOLT AROUND</b> 	M12 SST BOLT (FOR FITTING ATTACHMENT)  CODE: CP FIN. SS QTY. 1 WT: 0.04 lbs	HSS 41/2x1/4 FILLED WITH POLYURETHANE INSULATION DRAIN HOLE INSU VOL = 259 in <sup>3</sup> HT = 20"  CODE: 20 FIN. H.D.G. QTY. 1 WT: 18.0 lbs	PL 5/8x10x10  CODE: 10 FIN. H.D.G. QTY. 1 WT: 17.8 lbs	PL 1/2x10x10  160/PALLET CODE: 10 (BOT) FIN. PAINTED QTY. 1 WT: 14.2 lbs	PL 3/8"x4 1/8" DIA CIRCULAR PLATE M12 SST HEX NUT  FIN. H.D.G. QTY. 1 WT: 1.4 lbs	 FIN. ALUM QTY. 1		M12X40 A4-80  FIN. SS QTY. 1	RA-BA-CP-10-20  MAX BEAM FLANGE WIDTH = 7" MAX BEAM WEB DEPTH = 12"	 FIN. ALUM QTY. 1	FL-BITIMEN	5/8" DIA BLACK OXIDE FULLY THREADED ROD SET (GRADE B7) 16" 1X ROD: B7 2X NUTS: A194 GR. 2H 2X FLAT WASHERS: F436 2X LOCK WASHERS  * NOT INCLUDED IN SELL PRICE OPTIONAL: SST QTY. 4 SETS	RA-B7-THR58-16  20/PALLET  160/PALLET FOR PL 1/2x10x10 CODE: 10 (BOT))	
<b>EMBEDDED</b> 	M12 SST BOLT (FOR FITTING ATTACHMENT)  CODE: CP FIN. SS QTY. 1 WT: 0.04 lbs	HSS 41/2x1/4 FILLED WITH POLYURETHANE INSULATION DRAIN HOLE INSU VOL = 259 in <sup>3</sup> HT = 20"  CODE: 20 FIN. H.D.G. QTY. 1 WT: 18.0 lbs	PL 5/8x10x10  CODE: 10 FIN. H.D.G. QTY. 1 WT: 17.8 lbs		PL 3/8"x4 1/8" DIA CIRCULAR PLATE M12 SST HEX NUT  FIN. H.D.G. QTY. 1 WT: 1.4 lbs	 FIN. ALUM QTY. 1	5/8" DIA X 6 9/16" (H4L) NELSON STUD 	M12X40 A4-80  FIN. SS QTY. 1	RA-CP-CP-10-20  MIN. CONCRETE COMPRESSIVE STRENGTH = 3000 PSI MIN. CONCRETE SLAB THK = 7"	 FIN. ALUM QTY. 1	FL-BITIMEN			20/PALLET
<b>CHEMICAL ADHESIVE</b> 	M12 SST BOLT (FOR FITTING ATTACHMENT)  CODE: CP FIN. SS QTY. 1 WT: 0.04 lbs	HSS 41/2x1/4 FILLED WITH POLYURETHANE INSULATION DRAIN HOLE INSU VOL = 259 in <sup>3</sup> HT = 20"  CODE: 20 FIN. H.D.G. QTY. 1 WT: 18.0 lbs	PL 5/8x12x12  CODE: 12 FIN. H.D.G. QTY. 1 WT: 25.6 lbs		PL 3/8"x4 1/8" DIA CIRCULAR PLATE M12 SST HEX NUT  FIN. H.D.G. QTY. 1 WT: 1.4 lbs	 FIN. ALUM QTY. 1		M12X40 A4-80  FIN. SS QTY. 1	RA-EA-CP-12-20  MIN. CONCRETE COMPRESSIVE STRENGTH = 3000 PSI MIN. CONCRETE SLAB THK = 8"	 FIN. ALUM QTY. 1	FL-BITIMEN	5/8" DIA x 7 5/8" HILTI HAS-R 304 SS ANCHOR ROD SET EPOXY CARTRIDGE   * NOT INCLUDED IN SELL PRICE FIN. SST QTY. 4 TYPE HILTI-HY 200 QTY. 1 x 11.1 OZ	RA-SS58-758-HILTI  20/PALLET	
<b>BOLT ON</b> 	M12 SST BOLT (FOR FITTING ATTACHMENT)  CODE: CP FIN. SS QTY. 1 WT: 0.04 lbs	HSS 41/2x1/4 FILLED WITH POLYURETHANE INSULATION DRAIN HOLE INSU VOL = 259 in <sup>3</sup> HT = 20"  CODE: 20 FIN. H.D.G. QTY. 1 WT: 18.0 lbs	PL 5/8x12x12  CODE: 12 FIN. H.D.G. QTY. 1 WT: 25.6 lbs		PL 3/8"x4 1/8" DIA CIRCULAR PLATE M12 SST HEX NUT  FIN. H.D.G. QTY. 1 WT: 1.4 lbs	 FIN. ALUM QTY. 1		M12X40 A4-80  FIN. SS QTY. 1	RA-BC-CP-12-20  MAX BEAM FLANGE WIDTH = 8" MIN BEAM FLANGE WIDTH = 5"	 FIN. ALUM QTY. 1	FL-BITIMEN	BA (SIZE 1,2,3) G20 OR BT (SIZE 1,2) G20 (FOR TAPERED FLANGES) W/ 3/4" DIA BOLT, 2 1/2" LG   * NOT INCLUDED IN SELL PRICE FIN. H.D.G. QTY. 4	RA-BA1G20-75-25  20/PALLET	