



# **Table of Contents**

1.	Liquid Flashing ATTACHMENTS INSPECTION & SUBSTRATE PREPARATION (3 Pages)	3
2.	Liquid Flashing LF -1.1 SHEET METAL DRIP EDGE OR GRAVEL STOP FLASHING	6
3.	Liquid Flashing LF-1.1 SHEET METAL DRIP EDGE OR GRAVEL STOP FLASHING	7
4.	Liquid Flashing LF-13.1 TIE-IN: EPDM MEMBRANE INTO EXISTING ACCEPTABLE ROOF	8
5.	Liquid Flashing LF-18.1 THROUGH-WALL SCUPPER	9
6.	Liquid FLashing LF-30.1A STEEL I-BEAM FLASHING (Page 1 and 2)	10
7.	Liquid Flashing LF-8.1 SINGLE OR MULTIPLE PIPE PENETRATIONS (Page 1 and 2)	12

#### Notes:

- The following tables provide recommendations for preparation and priming of substrates and should be used as a guideline for proper adhesion & performance.
- 2. The primer application rate will vary and should be adjusted depending on the substrate. See Product Data Sheets, SDS, Guide Specifications and Details for complete information regarding the suitability, application and handling of products.

INSPECTION			тро	PVC / KEE HP	METAL SURFACES	MASONRY
A.1	Inspect insulation for wet conditions underneath the roof membrane. Remove & replace wet materials underneath to match in kind.	Ŷ	Ŷ	Ŷ		
A.2	Ensure, membrane or roof assembly is properly secured.	<b>Y</b>	<b>Y</b>	<b>Y</b>		
A.3	Provide additional securement at the base of penetrations, tie—ins or angle changes per details.	<b>Y</b>	<b>Y</b>	Ŷ		
A.4	Ensure, there is no standing water. Remove and dry the work area. Remove dust, debris and wipe the work surfaces clean. Masonry must be completely dry and sound.	<b>Y</b>	<b>Y</b>	<b>Y</b>	Y	<b>Y</b>
A.5	Verify structural integrity of metal objects. Check for broken welds or loose bolts. Verify the thickness of exposed metal after removal of finishes or rust for strength.				Ŷ	
A.6	Ensure, there is no moisture present in the substrate.	<b>Y</b>	<b>Y</b>	<b>Y</b>	Ŷ	Y
A.7	Within the work area, inspect the seams of existing membrane for proper seal.					
A.8	A.8 Do not damage structural members, welds or remove any nuts/bolts unless approved by designer.				Ŷ	
CLEANING & SUBSTRATE PREPARATION				PVC / KEE HP	METAL SURFACES	MASONRY
B.1	Use 60 grit sandpaper to rough up the top surface of the membrane.	<b>Y</b>	<b>Y</b>	<b>Y</b>		
Use abrasive grinding wheel (a diamond cup wheel is suggested) to expose the bare metal (do not use wire brush). Expose metal around nuts & tighten as needed. Wipe the membrane cleaner.					Ŷ	
B.3	Remove dust, clean the surfaces with broom & power blower.		<b>Y</b>	<b>Y</b>	<b>Y</b>	Y
B.4	Wipe the surfaces with <u>Carlisle Membrane Cleaner</u> , (Standard or Low VOC)			<b>Y</b>		
B.5	Use painter's tape to contain flashing resin. Tape shall be set 1/4" to 1/2" (6—13mm) beyond the fleece edges.			8	Ŷ	Ŷ
EXISTING BITUMINUOUS ROOFING SUBSTRATES				CONCRETE MASONRY	& PRIMER	
C.1					♡	
C.3	tuminous Roofing — Granular Surfaced. Power wash to remove contaminants & loose grannules					
C.4	Following bituminous substrates are not acceptable:  C.4 Aluminum coating, flood coat & aggregate, coal tar pitch roofing — flood coat & aggregate, hot—melt bituminuous waterproofing & ethylene—faced bituminous (bituthane) roofing.					,

INSPECTION CLEANING & SUBSTRATE PREPARATION (PAGE 1 OF 2) ATTACHMENT 1 For additional information, refer to Spec. Supplement LIQUID FLASHING

	METAL	SUBSTRATES	METAL PRIMER					
D.1	Bare aluminum, lead, copper & zinc.	Grind to remove corrosion, then use membrane						
D.2	Bare steel, galvanized steel.	cleaner to wipe and clean.						
D.3	Black pipe, cast iron.	Grind to remove corrosion and coating. Then use membrane cleaner to wipe and clean.						
D.4	Stainless steel.	Grind to achieve rough surface. Then use membrane cleaner to wipe and clean.						
D.5	Kynar finish, ceramic coated, and painted metal.	orind to remove coating. Then use membrane cleaner to wipe and clean.						
CEMENTITIOUS AND MASONRY SUBSTRATES								
E.1	Structural & or lightweight structural concrete.	Scarify, shot blast or grind to remove laitance and open up pores	Ŷ					
E.2	Granite, Marble.	Scarify, shot blast, grind to remove polished surface and open up pores	Ŷ					
E.3	Clay brick, terra cotta, tile.	Scarify, shot blast, grind to remove glazed surface and open up pores.						
E.4	Sandstone, limestone, synthetic stone.							
E.5	Porous/air—entrained concrete, concrete masonry block.	Scarify, shot blast, grind to open up pores						
E.6	Repair & leveling mortars.							
	GLASS & PLASTIC SUBSTRATES METAL PRIMER							
F.1	Glass.							
F.2	Acrylic.	Sand to abrade surface. Then use membrane						
F.3	Fiberglass.	cleaner to wipe and clean.						
F.4	ABS, PVC - Rigid.							

Note: Contact CCM for substrate not listed in these tables.

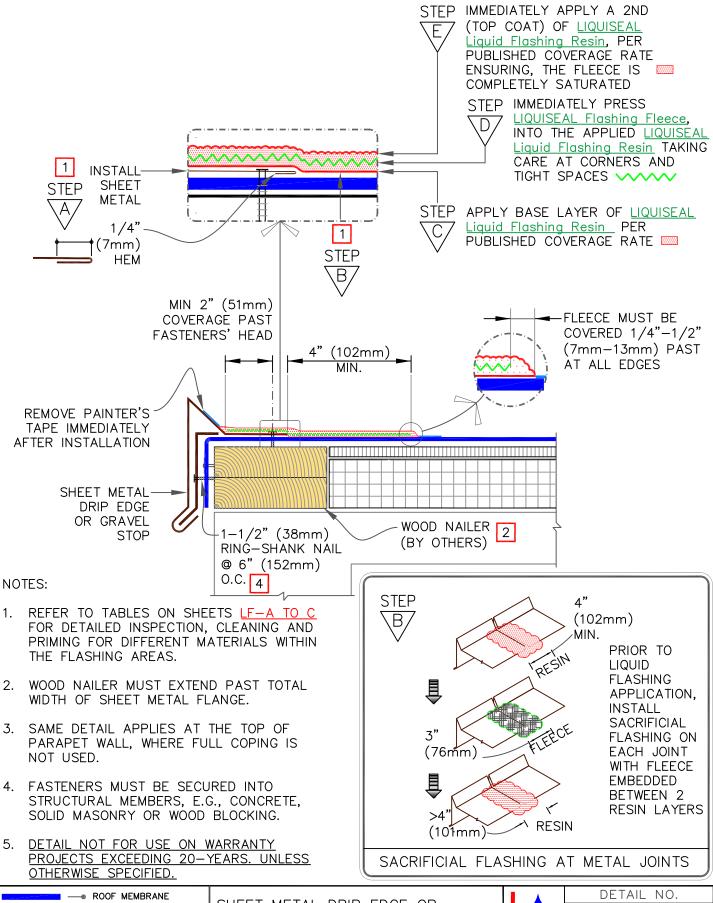
#### **CAUTION:**

All substrates must be prepared as necessary prior to the application of primers. Surfaces must be free from irregularities, loose, unsound or foreign materials such as rust, dirt, ice, snow, water, grease, oil, release agents, paint, lacquers, coatings, or any other conditions that would be detrimental to adhesion of the primer and resin.

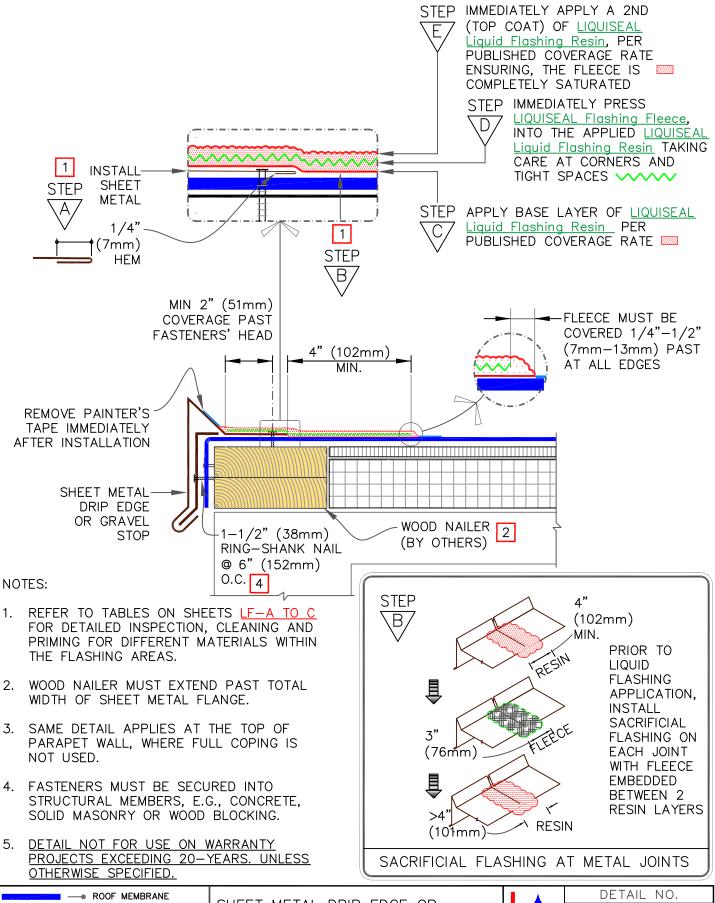
INSPECTION CLEANING & SUBSTRATE PREPARATION (PAGE 2 OF 2) ATTACHMENT 1 LIQUID FLASHING For additional information, refer to Spec. Supplement

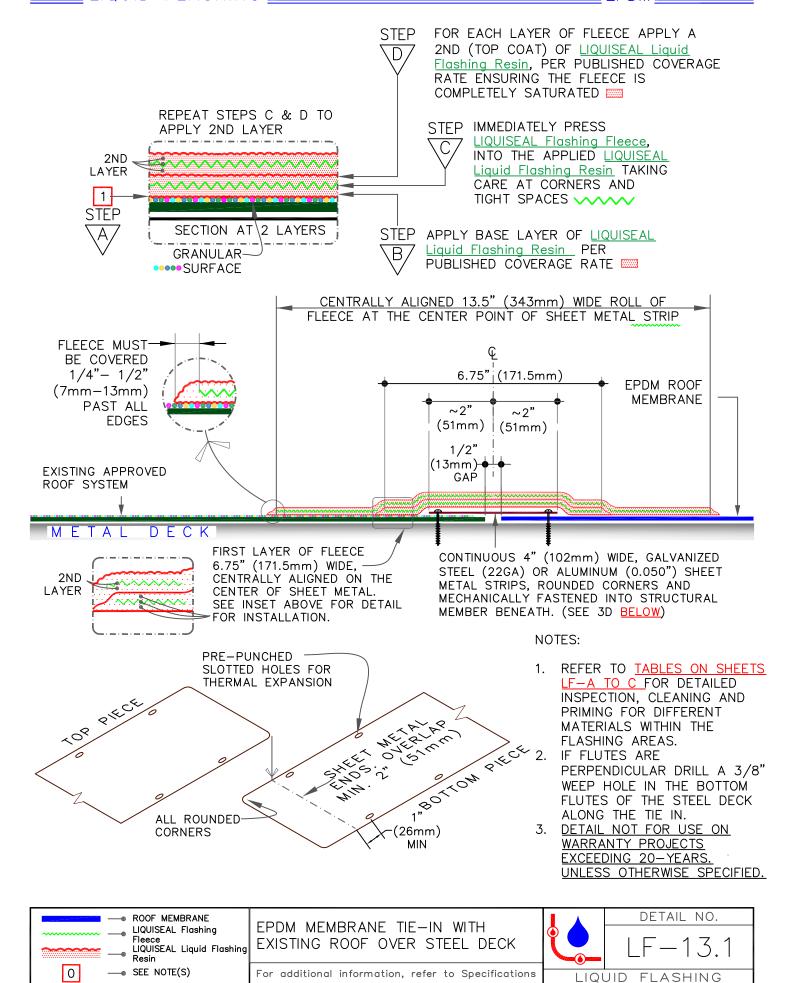
LIQI	JISEAL PRIMER & RESIN APPLICATION	EPDM	тро	PVC / KEE HP	METAL SURFACES	MASONRY
G.1	Ensure all surfaces are ready for application of primer prior to mixing, due to limited pot life.	Ŷ	Ŷ		Ŷ	Y
G.2	Mix primer thoroughly, per specifications.	Ŷ	Ŷ		Ŷ	Y
G.3	Apply <u>LIQUISEAL Metal Primer</u> per specifications.	Y			Ŷ	
G.4	Masonry: Apply <u>LIQUISEAL Concrete &amp; Masonry Primer</u> and surfacing sand per specifications.					Y
G.5	Wait for primer to cure per written instructions.	Ŷ			Ŷ	Y
G.6	Apply <u>Low VOC Primer</u> and allow to flash off completely.		Y			
G.7	Cut & dry—fit all fleece prior to mixing resin. Ensure, the fleece is set back from painter's tape, per <u>B.5</u> .	Ŷ	Ŷ	Ŷ	Ŷ	Ŷ
G.8	Mix <u>LIQUISEAL Flashing Resin</u> thoroughly (with spiral agitator if in pail).	Y	Y	Y	Ŷ	Y
G.9	Apply a base layer of <u>LIQUISEAL Flashing Resin</u> ensuring generous coverage of entire substrate.	Y	Y	Y	Ŷ	Y
G.10	Immediately press <u>LIQUISEAL Flashing Fleece</u> into the applied <u>LIQUISEAL Flashing Resin.</u> taking care at corners and crevices.	Ŷ	Ŷ	Ŷ	Ŷ	Ŷ
G.11	Apply a 2nd (top coat) of <u>LIQUISEAL Flashing Resin</u> ensuring the fleece is completely saturated per published coverage rate.	Y	Y	Y	Ŷ	Y

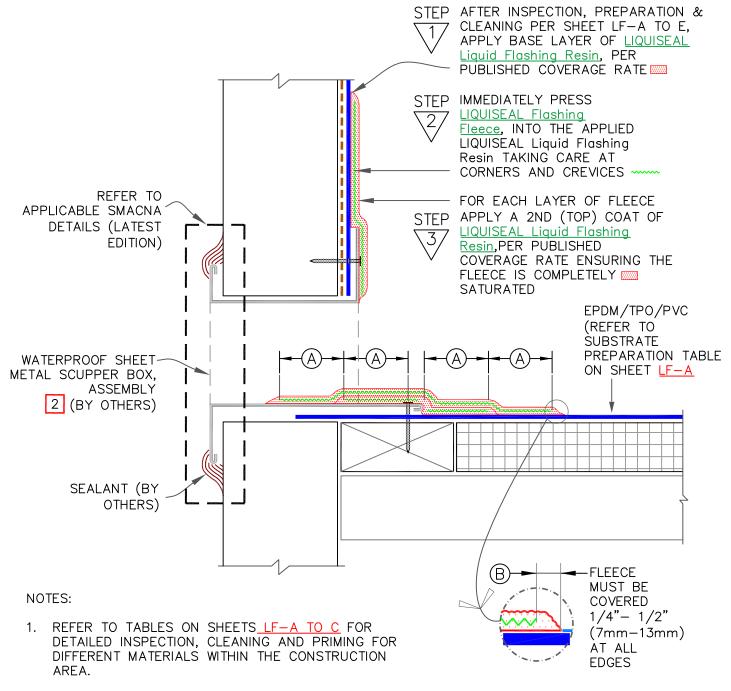
APPLICATION OF LIQUISEAL PRIMER & RESIN ATTACHMENT 2 For additional information, refer to Spec. Supplement LIQUID FLASHING







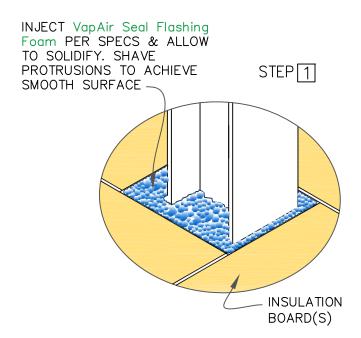




- 2. WOOD NAILER MUST EXTEND PAST TOTAL WIDTH OF SHEET METAL FLANGE.
- 3. MECHANICAL FASTENERS MUST BE SECURED INTO STRUCTURAL CONCRETE, SOLID MASONRY OR PRESSURE TREATED WOOD BLOCKING.
- 4. DETAIL NOT FOR USE ON WARRANTY PROJECTS EXCEEDING 20-YEARS. UNLESS OTHERWISE SPECIFIED.

DIME	NSIONS	mm	
$\bigcirc$	3"	76	MIN.
B	1/4"	6.4	TO
	1/2"	12.7	

── ROOF MEMBRANE		<b>I</b>	DETAIL NO.
LIQUISEAL Flashing Fleece	THROUGH-WALL SCUPPER	<b>P</b>	
LIQUISEAL Liquid Flashing Resin			LF-18.1
O — SEE NOTE(S)	For additional information, refer to Specifications	LIQU	JID FLASHING



GRIND METAL WITH DIAMOND CUP GRINDING WHEEL

> MEMBRANE SECURED WITH PLATES & FASTENERS PER SPECS



NOTE: ENSURE BODY OF PENETRATIONS & WELDS ARE COMPLETELY WATERPROOF.



DIAMOND CUP GRINDING WHEEL





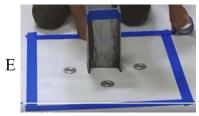
USE SAND PAPER GRIT# 60 TO ABRADE THE MEMBRANE SURFACE.

STEP 4

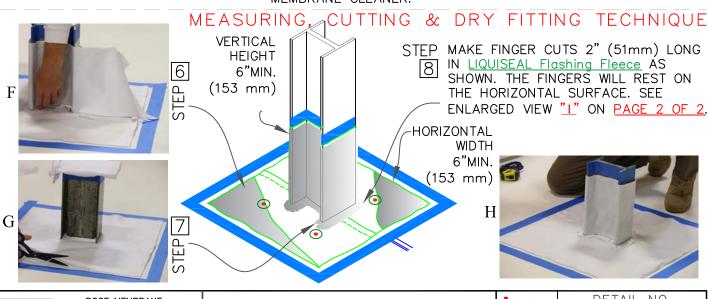


REMOVE ALL GRINDING DUST, CLEAN METAL & MEMBRANE WITH CLEAN RAGS & MEMBRANE CLEANER.

## STEP 5



USE PAINTER'S TAPE AND TAPE OFF THE FLASHING AREA.





ROOF MEMBRANE
LIQUISEAL Flashing
Fleete

Fleece
LIQUISEAL Liquid Flashing
Resin
SEE NOTE(S)

STEEL I-BEAM FLASHING (PAGE 1 OF 2)

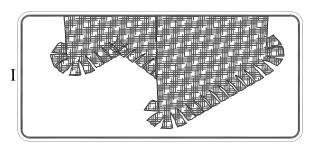
For additional information, refer to Specifications

DETAIL NO.

LF - 30.1

LIQUID FLASHING

# SACHET MIXING AND PRIMER APPLICATION





PRIME I-BEAM AND METAL PLATES. ENSURE AMBIENT AIR TEMPERATURE IS 40° & RISING. ALLOW PRIMER TO CURE UNTIL TACK-FREE.

## STEP 10

APPLY 1ST COAT OF
LIQUISEAL Liquid
Flashing Resin &
INSTALL LIQUISEAL
Flashing Fleece ON
VERTICAL SURFACES.

K

#### FLASHING FINAL INSTALLATION

STEP 11

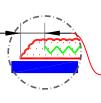
STEP 9



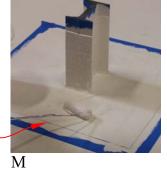
IMMEDIATELY APPLY A 2ND COAT OF LIQUISEAL Liquid Flashing Resin ENSURING THE FLEECE IS COMPLETELY SATURATED.

APPLY 1ST COAT OF RESIN AND INSTALL FLEECE ON HORIZONTAL SURFACES. IMMEDIATELY APPLY A 2ND COAT OF RESIN ENSURING FLEECE IS COMPLETELY SATURATED.

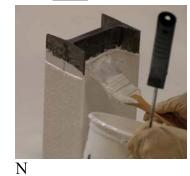
FLEECE MUST BE COVERED 1/4"-1/2" (7mm-13mm) BEYOND EDGES



STEP 12



STEP 13



TOUCH UP AS NEEDED TO ENSURE ENTIRE FLEECE IS COMPLETELY SATURATED.

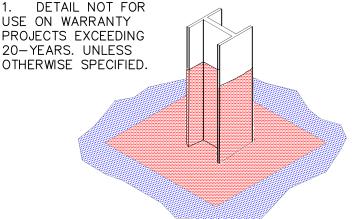
## STEP 14

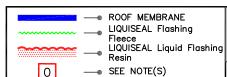


REMOVE TAPE IMMEDIATELY ENSURING THAT RESIN EXTENDS 1/4" - 1/2" BEYOND EDGE OF FLEECE

#### COMPLETED FLASHING

NOTE: 1. DETAI





STEEL I-BEAM FLASHING (PAGE 2 OF 2)

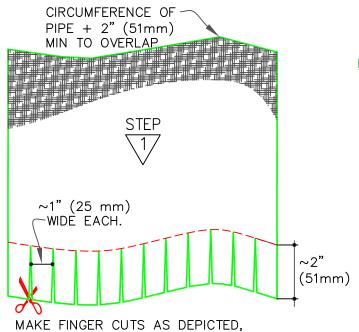
For additional information, refer to Specifications



DETAIL NO.

LF - 30.1

LIQUID FLASHING



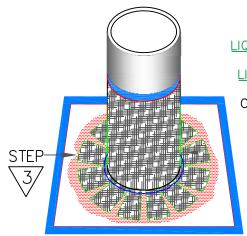
APPLY BASE COAT OF LIQUISEAL Liquid Flashing Resin PER PUBLISHED COVERAGE RATE STEP 1

APPLY BASE COAT OF

STEP

2" (51mm)

LIQUISEAL Liquid Flashing Resin ON HORIZONTAL SURFACES. IMMEDIATELY APPROXIMATELY ONE INCH WIDE EACH PRESS FLEECE INTO RESIN AND OVERLAP LIQUISEAL Flashing Fleece, MIN. 2" (51mm) IMMEDIATELY PRESS

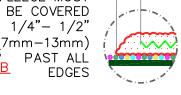


LIQUISEAL Flashing Fleece, INTO THE APPLIED LIQUISEAL Liquid Flashing Resin. APPLY SECOND COAT OF RESIN. ENSURE ALL ENDS OF FINGERS ARE PROPERLY **###** EMBEDDED.



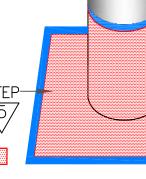
1. FOR MULTIPLE PIPE PENETRATIONS DAGE AND SEE STEP ZERO ON SHEET LF-8.1B AND FOLLOW REST OF THE STEPS AS SHOWN FOR SINGLE PIPE FLASHING.

- 2. REFER TO TABLES ON SHEETS LF-A TO C FOR DETAILED INSPECTION, CLEANING AND PRIMING FOR DIFFERENT MATERIALS WITHIN THE FLASHING AREAS.
- 3. SEE PAGE 2 OF 2 FOR ADDITIONAL NOTES.



APPLY A TOP COAT OF LIQUISEAL Liquid Flashing Resin, ENSURING THE FLEECE IS COMPLETELY SATURATED PER PUBLISHED COVERAGE STEP RATE AND APPLY 1/4"-1/2" (7mm-13mm) BEYOND

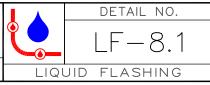
THE FLEECE EDGES



ROOF MEMBRANE LIQUISEAL Flashing Fleece LIQUISEAL Liquid Flashing Resin SEE NOTE(S) 0

SINGLE OR MULTIPLE PIPE PENETRATIONS (PAGE 1 OF 2)

For additional information, refer to Specifications



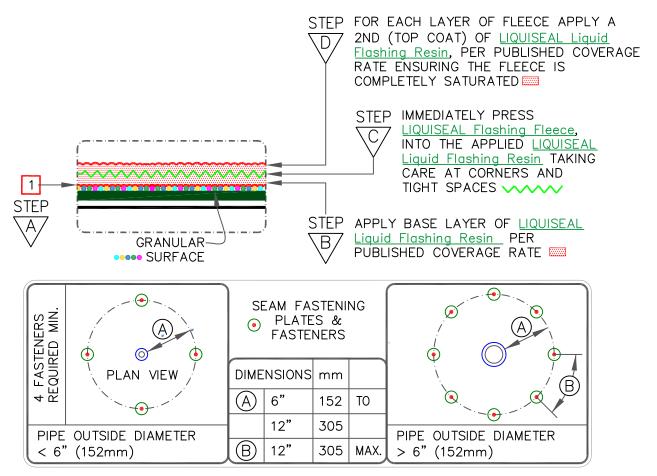


TABLE FOR FASTENER REQUIREMENTS ON MECHANICALLY FASTENED SYSTEMS. REFER TO CARLISLE TYPICAL PENETRATION DETAILS FOR FLASHING OVER FASTENER HEADS.

#### NOTES CONTINUE FROM LF-8.1A

- 4. WHEN THERE IS ENOUGH CLEARANCE BETWEEN MULTIPLE PENETRATIONS, INSTALL LIQUID FLASHING USING THIS DETAIL.
- 5. WHEN INSTALLATION OF LIQUID FLASHING IS NOT FEASIBLE FOR MULTIPLE PIPE PENETRATIONS, THEN USE APPLICABLE STANDARD ROOF MEMBRANE DETAIL (U-16) FOR FIELD MEMBRANE TYPE.
- 6. <u>DETAIL NOT FOR USE ON WARRANTY</u> PROJECTS EXCEEDING 20-YEARS. UNLESS OTHERWISE SPECIFIED.

