# TYPICAL UNDERLAYMENT INSTALLATION DETAILS



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**Roofs of Distinction** 

#### A. WARNING

1. DO NOT USE ANY TYPE OF ROSIN PAPER UNDER ANY BERRIDGE METAL PRODUCT.

#### **B. ROOF SURFACE PREPARATION**

- 1. CLEAN ROOF SURFACE OF ALL OBJECTS WHICH MAY PUNCTURE OF TEAR UNDERLAYMENT.
- 2. DAILY INSPECT AND CLEAN ROOF SURFACE DURING INSTALLATION OF UNDERLAYMENTS AND OR BERRIDGE METAL PRODUCTS.

### C. # 30 FELT UNDERLAYMENT

- 1. USE A MINIMUM # 30 FELT UNDERLAYMENT AND COVER THE ENTIRE ROOF DECK. ADDITIONAL # 30 FELT UNDERLAYMENT WILL BE REQUIRED AT FLASHING CONDITIONS AS SHOWN IN THE FOLLOWING DETAILS.
- 2. A DOUBLE LAYER OF # 30 FELT IS RECOMMENDED TO COVER THE ENTIRE ROOF DECK WHEN ROOF SLOPES ARE 3:12 OR LESS.

# D. ICE AND WATERSHIELD

- 1. A BERRIDGE APPROVED PEEL-AND-STICK UNDERLAYMENT OR EQUAL MAY BE USED AS A SUBSTITUTE FOR # 30 FELT UNDERLAYMENT.
- 2. A BERRIDGE APPROVED PEEL-AND-STICK UNDERLAYMENT OR EQUAL IS RECOMMENDED AS UNDERLAYMENT FOR ALL CURVED SURFACES WHICH BERRIDGE PRODUCTS ARE TO BE APPLIED TO.
- 3. DUE TO # 30 FELT UNDERLAYMENTS TENDENCY TO TEAR WHEN USED OVER CORRUGATED DECKING, BERRIDGE MANUFACTURING RECOMMENDS A BERRIDGE APPROVED PEEL-AND STICK UNDERLAYMENT OR EQUAL TO BE USED AS AN UNDERLAYMENT FOR ALL CORRUGATED DECKS.

#### E. INSTALLATION

- 1. INSTALL UNDERLAYMENT PARALLEL TO EAVE LINE STARTING AT EAVE.
- 2. CERTAIN FLASHING CONDITIONS WILL REQUIRE UNDERLAYMENT INSTALLATION PRIOR TO COVERING ENTIRE ROOF, SUCH AS VALLEY. REVIEW DETAILS TO VERIFY FOR YOUR PROJECT.
- 3. INSULATE BETWEEN BERRIDGE MANUFACTURING PRODUCTS AND WOOD, WOOD BLOCKING AND DISSIMILAR MATERIALS WITH UNDERLAYMENT.
- 4. UNDERLAYMENT MUST BE SMOOTH AND FREE FROM WRINKLES.
- 5. TEARS AND PUNCTURES MUST BE REPAIRED WITH ADDITIONAL UNDERLAYMENT.
- 6. UNDERLAYMENT MUST NOT BE ALLOWED TO DRY OUT DUE TO EXTENDED EXPOSURE TO THE ELEMENTS. DRIED OUT UNDERLAYMENT MUST BE REPLACED.
- 7. DO NOT INSTALL BERRIDGE PRODUCTS OVER INADEQUATE OR IMPROPER



8. VERIFY CORRECT METHOD OF INSTALLING ICE AND WATERSHIELD WITH ICE AND WATERSHIELD MANUFACTURER.

## F. FASTENERS

- 1. USE A GALVANIZED OR COATED FASTENER.
- 2. USE BERRIDGE COATED FELT CAPS.
- 3. DO NOT USE CARBON OR COMMON STEEL FASTENERS.
- 4. DO NOT USE "TIN CAPS" OR ONE-PIECE NAIL CAPS.
- 5. USE OF IMPROPER FASTENERS AND OR FELT CAPS WILL CAUSE READ-THROUGH AND OR CORROSION OF BERRIDGE PRODUCTS.

G. LAPS

- 1. LAP # 30 FELT UNDERLAYMENT 6" AT HEAD AND 36" AT END TO END.
- 2. LAP ICE AND WATERSHIELD AS PER MANUFACTURERS SPECIFICATIONS.
- 3. ALWAYS LAP UNDERLAYMENT WITH SLOPE OF ROOF.
- 4. INSTALL UNDERLAYMENT PARALLEL WITH EAVE LINE. START INSTALLATION AT EAVE AND CONTINUE UP ROOF SLOPE.

ALL ARCHITECTURAL PRODUCTS REQUIRE CARE IN HANDLING AND INSTALLATION TO AVOID DAMAGING.

THESE INSTALLATION INSTRUCTIONS AND THE FOLLOWING TYPICAL DETAILS ARE INTENDED TO PROVIDE OUR CUSTOMERS WITH THE INFORMATION REQUIRED FOR AN AESTHETICALLY PLEASING AND FUNCTIONAL INSTALLATION OF THE BERRIDGE PANEL SYSTEMS.

NOTE: ALL PRODUCTS, SPECIFICATIONS, DETAILS, AND INSTRUCTIONS SUBJECT TO CHANGE WITHOUT NOTICE. FOR SPECIFIC PROJECT DETAILS, CONTACT BERRIDGE.

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# USE OF ROSIN PAPER WITH BUILDING UNDERLAYMENTS AND BERRIDGE METAL ROOF PANELS

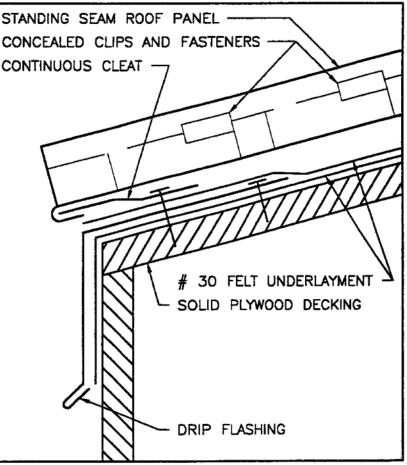
BERRIDGE RECOMMENDS THAT ROSIN PAPER NOT BE USED AS AN UNDERLAYMENT SEPARATION SHEET BETWEEN ROOFING UNDERLAYMENT AND BERRIDGE METAL ROOFING PANELS.

THE ORIGINAL PURPOSE FOR USING ROSIN PAPER AS A SEPARATION SHEET WAS TO PREVENT ROOFING FELT PAPER FROM BONDING TO METAL PANELS. IT HAS BEEN OUR EXPERIENCE, HOWEVER, THAT TODAY'S LIGHTER WEIGHT ASPHALT-IMPREGNATED ROOFING FELT PAPER DOES NOT BOND TO THE UNDERSIDE OF OUR METAL ROOF PANELS.

ANOTHER IMPORTANT FACTOR WHICH MAKES ROSIN PAPER UNNECESSARY IS THE FACT THAT ALL BERRIDGE PRODUCTS HAVE A WASH COAT OR CLEAR COAT ON THE UNDERSIDE OF THE METAL COIL, FLAT SHEET OR PANEL PRODUCT WHICH PREVENTS BONDING TO UNDERLAYMENT. THIS COATING IS FACTORY APPLIED ON THE BERRIDGE CONTINUOUS COIL COATING LINES.

MORE IMPORTANTLY, WE HAVE SEEN A NUMBER OF EXAMPLES OF PANEL FAILURE STEMMING FROM RUST-THROUGH FROM THE UNDERSIDE, CAUSED BY MOISTURE RETENTION OF ROSIN PAPER UNDERLAYMENT.

ALTHOUGH THE-ROSIN PAPER MAY NOT BE THE ORIGINAL CAUSE OF MOISTURE CONDENSATION, IT IS A POROUS MATERIAL WHICH WILL RETAIN MOISTURE AND THUS SHOULD NOT BE USED BENEATH METAL PANELS.



SECTION VIEW OF TYPICAL STANDING SEAM PANEL APPLICATION OVER SOLID DECKING WITH NUMBER 30 ROOFING FELT UNDERLAYMENT.

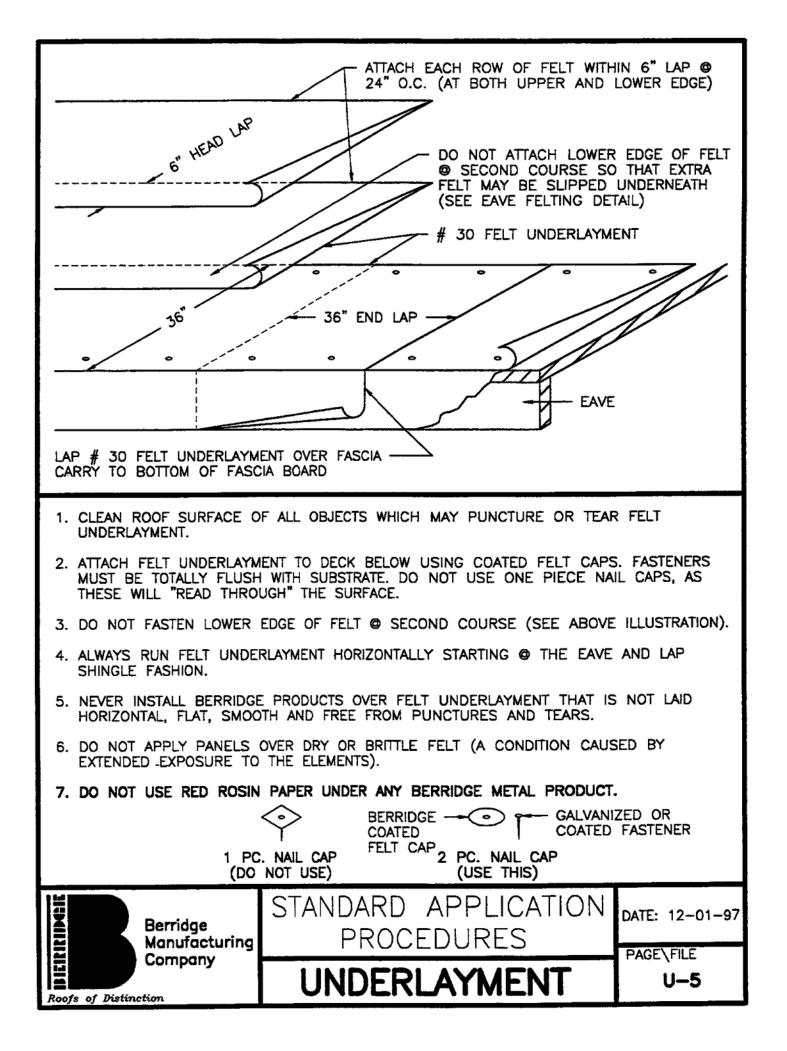


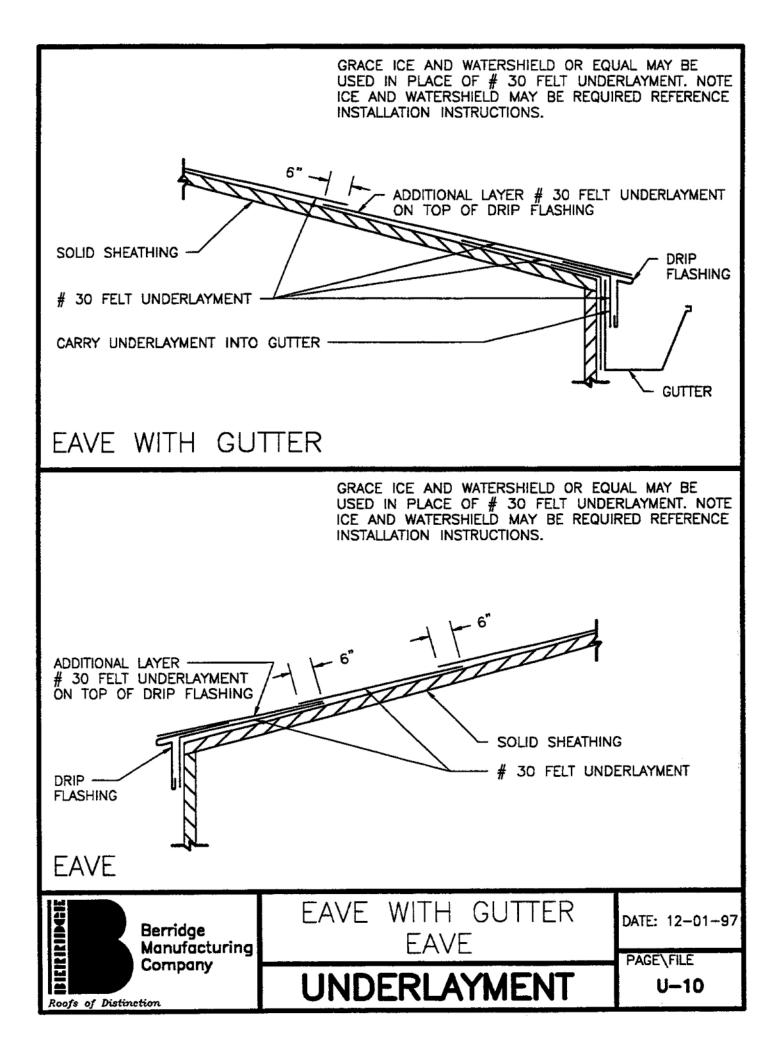
THE DETAILS CONTAINED IN THE FOLLOWING PAGES ARE MERELY RECOMMENDATIONS AS TO HOW BERRIDGE MANUFACTURING MATERIALS SHOULD BE INSTALLED. THEY MAY REQUIRE ADAPTATIONS OR MODIFICATIONS FOR A SPECIFIC PROJECT AS CONDITIONS VARY IN BOTH BUILDING DESIGN AND LOCAL WEATHER PECULIARITIES.

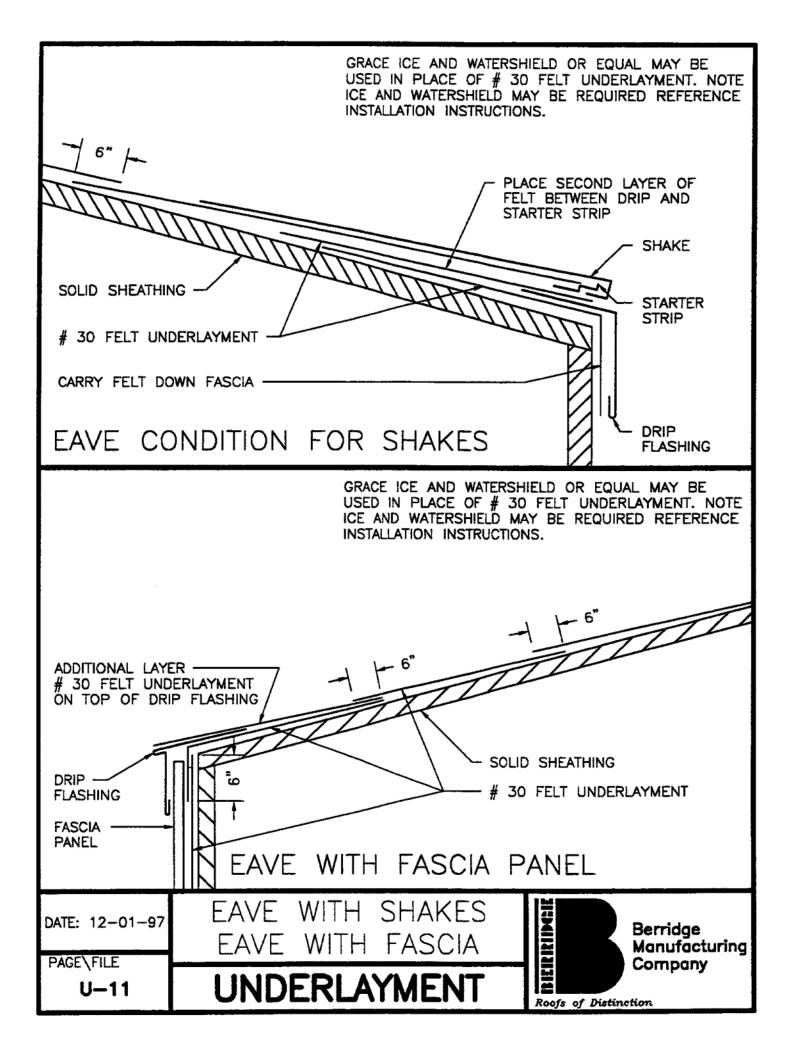
BERRIDGE MANUFACTURING COMPANY SHALL BE HELD HARMLESS FROM ANY AND ALL CLAIMS ARISING FROM LACK OF WATERTIGHTNESS AS A RESULT OF FOLLOWING THESE RECOMMENDED DETAILS. ENSURING WATERTIGHTNESS ON ANY GIVEN PROJECT IS THE FUNCTION OF THE INSTALLER. THE ARCHITECT/GENERAL CONTRACTOR/INSTALLER MUST ACCEPT THE RESPONSIBILITY TO ADAPT THESE DETAILS TO MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATERTIGHTNESS.

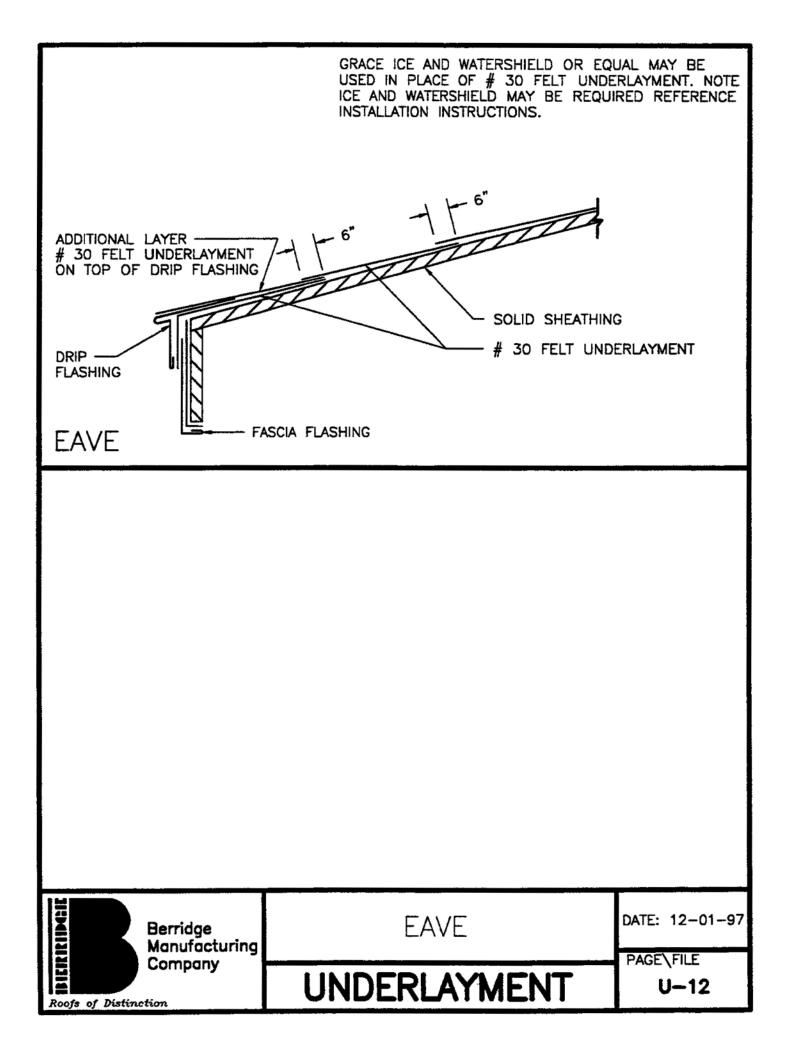
THE INSTALLER CAN VIRTUALLY ASSURE WATERTIGHTNESS IF THESE FLASHING DETAILS HAVE BEEN PROPERLY ADAPTED, ADEQUATE LAPS HAVE BEEN PROVIDED, CORRECT TYPE OF SEALANT USED, ALL JOINTS ADEQUATELY CAULKED AND PROFESSIONAL WORKMANSHIP EMPLOYED.

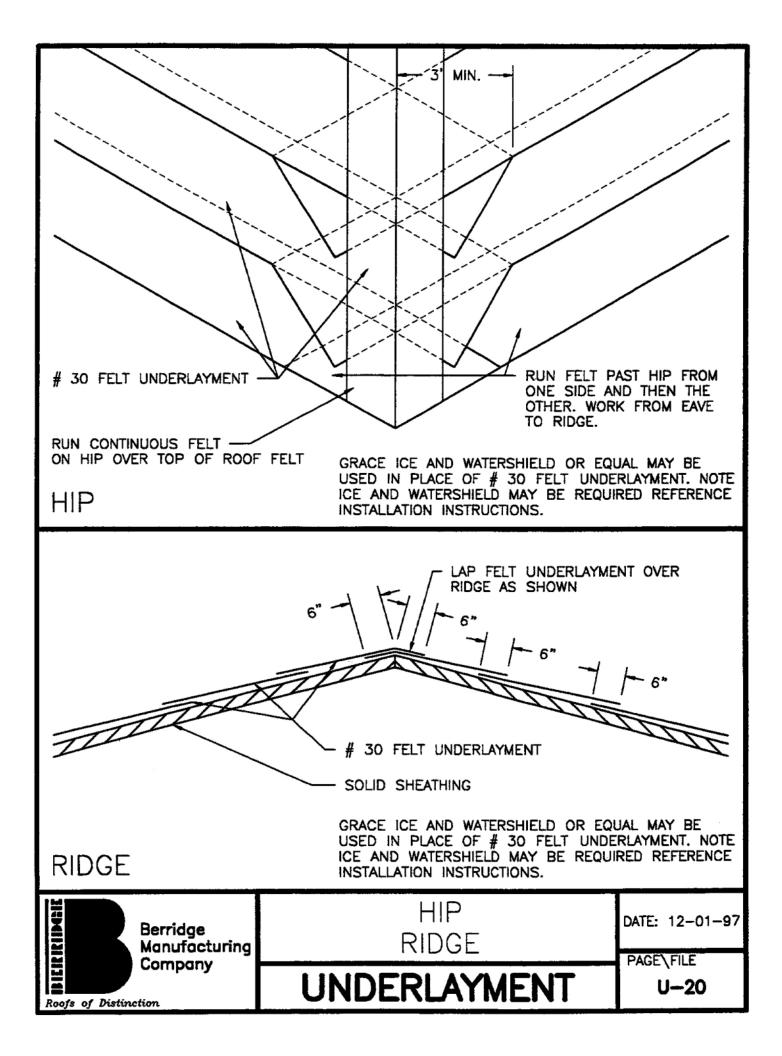


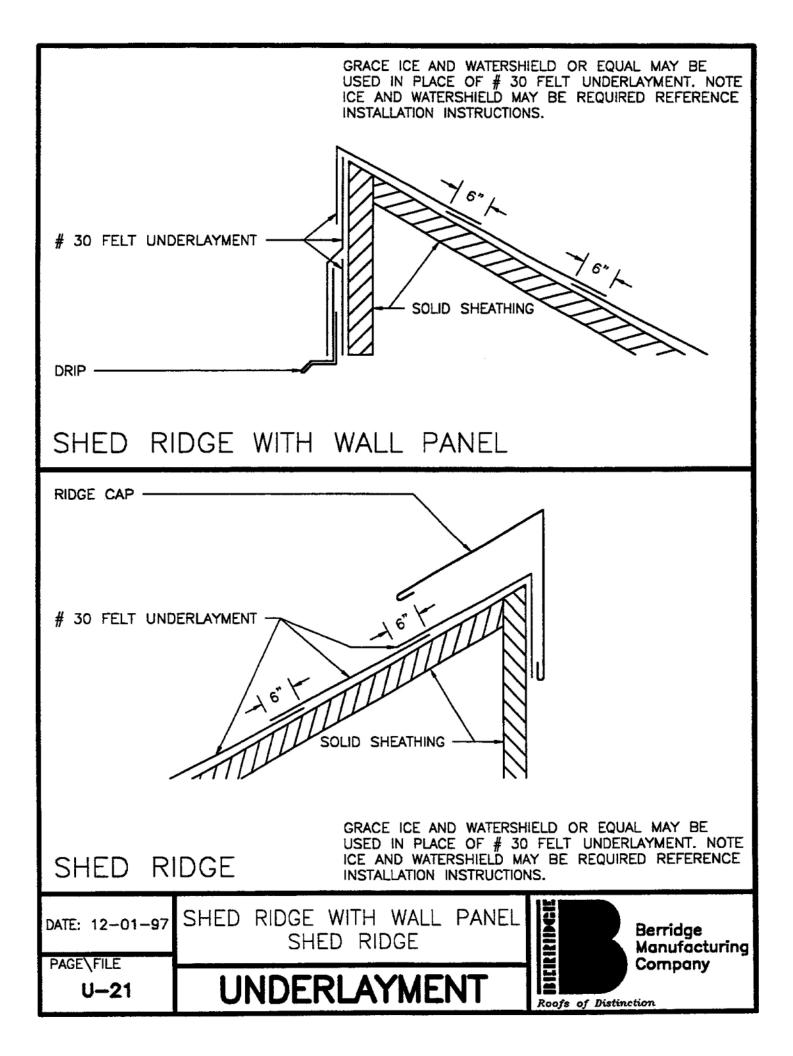






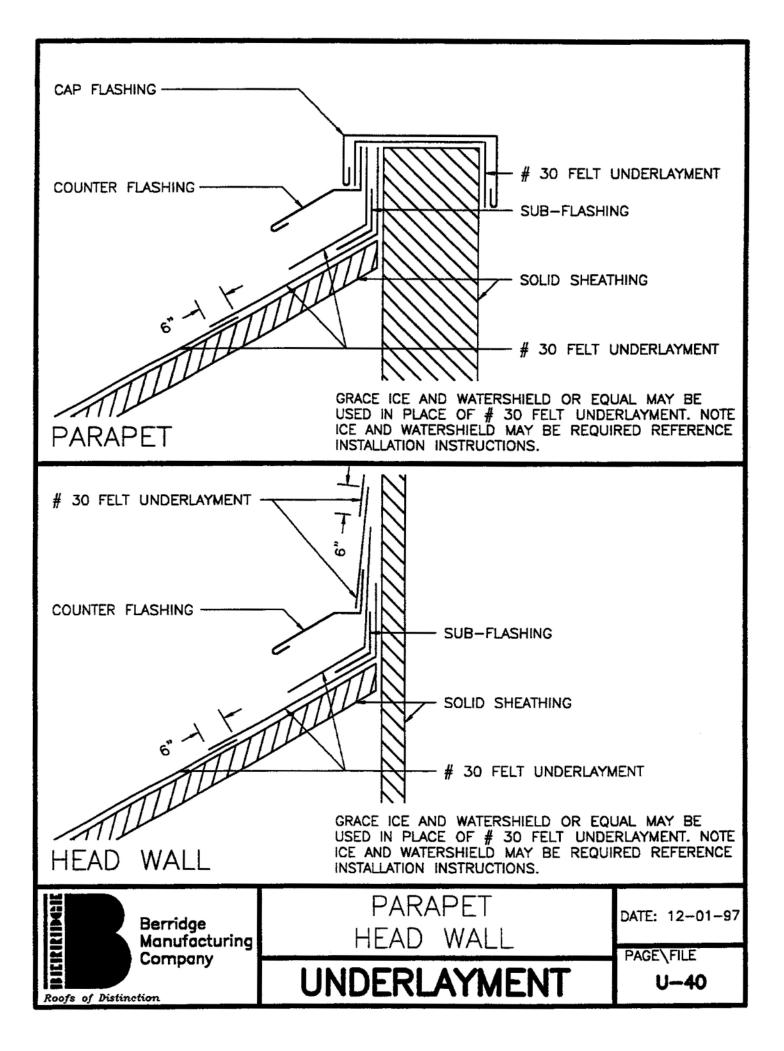


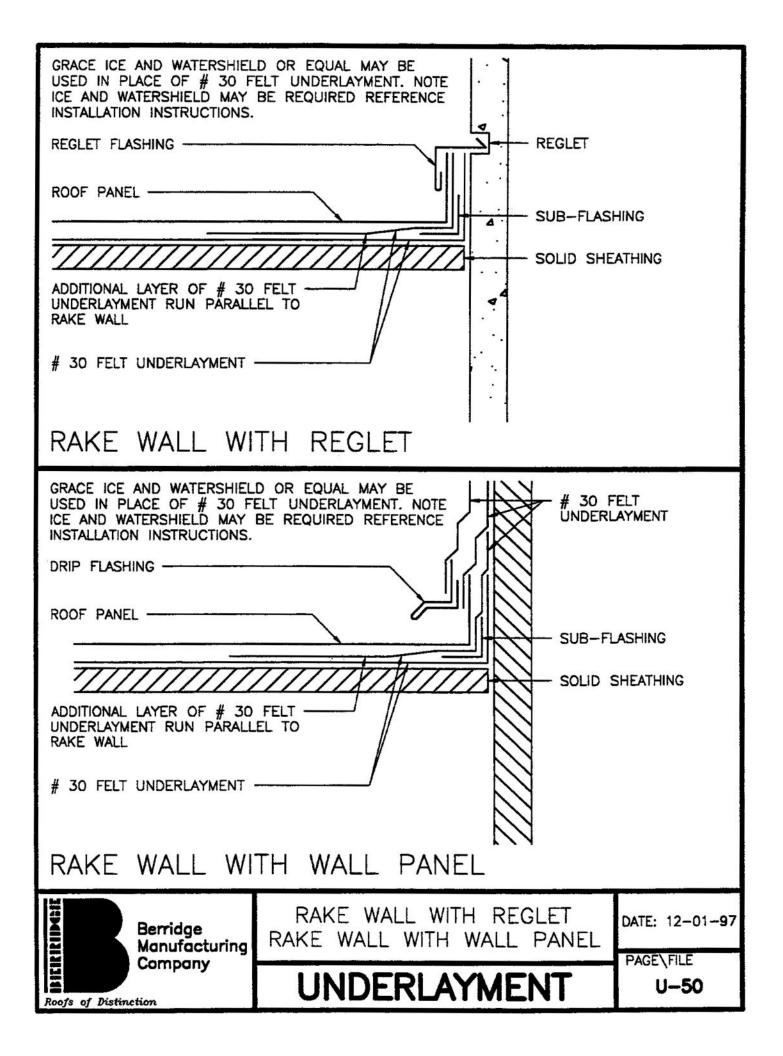




# 30 FELT UNDERLAYMENT - RUN (1) LAYER OF FELT ON TOP OF DRIP FLASHING PARALLEL TO GABLE		
# 30 FELT UNDERLAYMENT; DOUBLE LAYER OF FELT REC REGARDLESS OF FLASHING T SOLID SHEATHING	COMMENDED / NI	DRIP FLASHING
GABLE	GRACE ICE AND WATERSHIELD OUSED IN PLACE OF # 30 FELT ICE AND WATERSHIELD MAY BE INSTALLATION INSTRUCTIONS.	UNDERLAYMENT. NOTE
# 30 FELT UNDERLAYMENT - RUN (1) LAYER OF FELT BETWEEN CHANNEL AND DRII FLASHING PARALLEL TO GABI		CHANNEL FLASHING OR J-CLIP
GABLE	GRACE ICE AND WATERSHIELD OUSED IN PLACE OF # 30 FELT ICE AND WATERSHIELD MAY BE INSTALLATION INSTRUCTIONS.	UNDERLAYMENT. NOTE
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# 30 FELT UND RUN (1) LAYER ON TOP OF DRI PARALLEL TO G/	OF FELT	GRACE ICE AND WATER USED IN PLACE OF # ICE AND WATERSHIELD INSTALLATION INSTRUCT	30 FELT UNDER MAY BE REQUIR	RLAYMENT. NOTE
REGARDLESS OF	OF FELT RÉCOMMEND			DRIP FLASHING
SOLID SHEATHIN # 30 FELT UND				
GABLE V	VITH WALL	PANEL		DRIP FLASHING
	OF FELT P FLASHING ABLE VERLAYMENT;	ED		- DRIP FLASHING
# 30 FELT UND FLASHING	ERLAYMENT			
GABLE		GRACE ICE AND WATER USED IN PLACE OF # ICE AND WATERSHIELD INSTALLATION INSTRUCT	30 FELT UNDER MAY BE REQUIR	RLAYMENT. NOTE
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USED IN PLACE	WATERSHIELD OR EQUA OF # 30 FELT UNDERL SHIELD MAY BE REQUIRE STRUCTIONS.	AYMENT. NOTE /	# 30 FEL UNDERLAY	
COUNTER FLASH CHANNEL FLASH				
777777			SUB-FLAS	
ADDITIONAL LAY	ER OF # 30 FELT - RUN PARALLEL TO			
# 30 FELT UND	ERLAYMENT	V		
RAKE W	ALL			
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