VARCO PRUDEN BUILDINGS

SSR Roof Installation





INDEX

1.0 INTRODUCTION 1.1 2.0 KEY PROCEDURES 2.1 3.0 RECEIVING SHIPMENT 3.1 ON SITE STORAGE 3.1 4.0 HANDLING SSR PANELS 4.1 5.0 PRELIMINARY ERECTION INFORMATION 5.1 6.0 PURLIN BLOCKING 6.1 7.0 STANDING SEAM ROOF SYSTEM 7.1-7.3 8.0 BASIC SSR COMPONENTS 8.1-8.2 9.0 FASTENER SCHEDULE 9.1-9.2 - ADDITIONAL TOOLS REQUIRED FOR SSR 9.2 10.0 SYSTEM INSTALLATION 10.1-10.4 - ROOF INSULATION 10.5-10.6 - PANEL INSTALLATION 10.5-10.6 - PANEL INSTALLATION 10.1-10.4 - SSR WORK POINTS 10.3 - SSR WORK POINTS 10.1-10.4 - SSR WORLE STRIP INSTALLATION 10.14-10.15 - ENDLAP INSTALLATION 10.14-10.15 - ENDLAP INSTALLATION 10.14-10.15 - RIDGE INSTALLATION 11.1 - EAVE FASCIA CONDITIONS 11.4-11.5 - FASCIA CLOSURE ASSEMBLIES 11.6-11.8 - RAKE FASCIA INSTALLATION	PREFACE	PAGE
2.0 KEY PROCEDURES 2.1 3.0 RECEIVING SHIPMENT 3.1 ON SITE STORAGE 3.1 4.0 HANDLING SSR PANELS 4.1 5.0 PRELIMINARY ERECTION INFORMATION 5.1 6.0 PURLIN BLOCKING 6.1 7.0 STANDING SEAM ROOF SYSTEM 7.1-7.3 8.0 BASIC SSR COMPONENTS 8.1-8.2 9.0 FASTENER SCHEDULE 9.1-9.2 - ADDITIONAL TOOLS REQUIRED FOR SSR 9.2 10.0 SYSTEM INSTALLATION 10.1-10.4 - ROOF INSULATION 10.5-10.6 - PANEL INSTALLATION 10.1-10.4 - SSR WORK POINTS 10.5-10.6 - ALTERNATE ICE DAMMING WEATHERSEAL 10.3 - SSR MODULE STRIP INSTALLATION 10.14-10.15 - ENDLAP INSTALLATION 10.16-10.18 - RIDGE INSTALLATION 10.19-10.30 11.0 FASCIA CONDITIONS 11.2-11.3 - EAVE FASCIA INSTALLATION 11.2-11.3 - FASCIA CONDITIONS 11.6-11.8 - RAKE FASCIA INSTALLATION 11.9-11.11 - FASCIA CONDITIONS 11.6-11.8 - RAKE	1.0 INTRODUCTION	1.1
3.0 RECEIVING SHIPMENT 3.1 ON SITE STORAGE 3.1 4.0 HANDLING SSR PANELS 4.1 5.0 PRELIMINARY ERECTION INFORMATION 5.1 6.0 PURLIN BLOCKING 6.1 7.0 STANDING SEAM ROOF SYSTEM 7.1-7.3 8.0 BASIC SSR COMPONENTS 8.1-8.2 9.0 FASTENER SCHEDULE 9.1-9.2 - ADDITIONAL TOOLS REQUIRED FOR SSR 9.2 10.0 SYSTEM INSTALLATION 10.1-10.4 - ROOF INSULATION 10.5-10.6 - PANEL INSTALLATION 10.7-10.12 - ALTERNATE ICE DAMMING WEATHERSEAL 10.3 - SSR MODULE STRIP INSTALLATION 10.14-10.15 - ENDLAP INSTALLATION 10.16-10.18 - RIDGE INSTALLATION 10.14-10.30 11.0 FASCIA CONDITIONS 11.4 - EAVE FASCIA INSTALLATION 11.4 - FASCIA CONDITIONS 11.2-11.3 - HIGH EAVE INSTALLATION 11.4-11.5 - FASCIA CONDITIONS 11.6-11.8 - EAVE FASCIA INSTALLATION 11.4-11.5 - FASCIA CLOSURE ASSEMBLIES 11.6-11.8 - RAKE FASCIA INSTALLATIO	2.0 KEY PROCEDURES	2.1
ON SITE STORAGE 3.1 4.0 HANDLING SSR PANELS 4.1 5.0 PRELIMINARY ERECTION INFORMATION 5.1 6.0 PURLIN BLOCKING 6.1 7.0 STANDING SEAM ROOF SYSTEM 7.1-7.3 8.0 BASIC SSR COMPONENTS 8.1-8.2 9.0 FASTENER SCHEDULE 9.1-9.2 - ADDITIONAL TOOLS REQUIRED FOR SSR 9.2 10.0 SYSTEM INSTALLATION 10.1-10.4 - ROOF INSULATION 10.5-10.6 - PANEL INSTALLATION 10.7-10.12 - ALTERNATE ICE DAMMING WEATHERSEAL 10.3 - SSR MODULE STRIP INSTALLATION 10.14-10.15 - ENDLAP INSTALLATION 10.19-10.30 11.0 FASCIA CONDITIONS 11.2-11.3 - EAVE FASCIA INSTALLATION 11.4-11.5 - FASCIA CLOSURE ASSEMBLIES 11.6-11.8 - RAKE FASCIA INSTALLATION 11.2-11.3 - HIGH EAVE INSTALLATION 11.2-11.13 - PANEL INSTALLATIO	3.0 RECEIVING SHIPMENT	3.1
4.0 HANDLING SSR PANELS 4.1 5.0 PRELIMINARY ERECTION INFORMATION 5.1 6.0 PURLIN BLOCKING 6.1 7.0 STANDING SEAM ROOF SYSTEM 7.1-7.3 8.0 BASIC SSR COMPONENTS 8.1-8.2 9.0 FASTENER SCHEDULE 9.1-9.2 - ADDITIONAL TOOLS REQUIRED FOR SSR 9.2 10.0 SYSTEM INSTALLATION 10.1-10.4 - ROOF INSULATION 10.5-10.6 - PANEL INSTALLATION 10.5-10.6 - PANEL INSTALLATION 10.7-10.12 - ALTERNATE ICE DAMMING WEATHERSEAL 10.3 - SSR MODULE STRIP INSTALLATION 10.14-10.15 - ENDLAP INSTALLATION 10.14-10.16 - ENDLAP INSTALLATION 10.16-10.18 - RIDGE INSTALLATION 11.1 - EAVE FASCIA INSTALLATION 11.2-11.3 - HIGH EAVE INSTALLATION 11.2-11.3 - HIGH EAVE INSTALLATION 11.2-11.3 - FASCIA CLOSURE ASSEMBLIES 11.6-11.8 - RAKE FASCIA INSTALLATION 11.2-11.13 12.0 ROOF ACCESSORIES 12.1-12.6 - HARD RUBBER INSIDE CLOSURE 12.7-12.9 - SNG	ON SITE STORAGE	3.1
5.0 PRELIMINARY ERECTION INFORMATION 5.1 6.0 PURLIN BLOCKING 6.1 7.0 STANDING SEAM ROOF SYSTEM 7.1-7.3 8.0 BASIC SSR COMPONENTS 8.1-8.2 9.0 FASTENER SCHEDULE 9.1-9.2 - ADDITIONAL TOOLS REQUIRED FOR SSR 9.2 10.0 SYSTEM INSTALLATION 10.1-10.4 - ROOF INSULATION 10.5-10.6 - PANEL INSTALLATION 10.7-10.12 - ALTERNATE ICE DAMMING WEATHERSEAL 10.3 - SSR MODULE STRIP INSTALLATION 10.14-10.15 - ENDLAP INSTALLATION 10.16-10.18 - RIDGE INSTALLATION 10.16-10.18 - RIDGE INSTALLATION 10.19-10.30 11.0 FASCIA CONDITIONS 11.2-11.3 - EAVE FASCIA INSTALLATION 11.2-11.3 - FASCIA CLOSURE ASSEMBLIES 11.6-11.8 - RAKE FASCIA INSTALLATION 11.2-11.13 12.0 ROOF ACCESSORIES 11.2-11.13 12.0 ROOF ACCESSORIES 12.1-12.6 - HARD RUBBER INSIDE CLOSURE 12.7-12.9 - SNG TUF-LITE 12.10-12.13 - APEX 20 VENT 12.16-12.18 - RIGID BOARD INSULATIO	4.0 HANDLING SSR PANELS	4.1
0.0 FORLIN BLOCKING 6.1 7.0 STANDING SEAM ROOF SYSTEM 7.1-7.3 8.0 BASIC SSR COMPONENTS 8.1-8.2 9.0 FASTENER SCHEDULE 9.1-9.2 - ADDITIONAL TOOLS REQUIRED FOR SSR 9.2 10.0 SYSTEM INSTALLATION 10.1-10.4 - ROOF INSULATION 10.5-10.6 - PANEL INSTALLATION 10.7-10.12 - ALTERNATE ICE DAMMING WEATHERSEAL 10.3 - SSR MODULE STRIP INSTALLATION 10.14-10.15 - ENDLAP INSTALLATION 10.16-10.18 - RIDGE INSTALLATION 10.19-10.30 11.0 FASCIA CONDITIONS 11.1 - EAVE FASCIA INSTALLATION 11.2-11.3 - HIGH EAVE INSTALLATION 11.4-11.5 - FASCIA CLOSURE ASSEMBLIES 11.6-11.8 - RAKE FASCIA INSTALLATION 11.2-11.3 - HIGH EAVE INSTALLATION 11.2-11.3 - FASCIA CLOSURE ASSEMBLIES 11.6-11.8 - RAKE FASCIA INSTALLATION 11.2-11.13 - PEAK CAP & RAKE TO RIDGE TRANSITION 11.1-12-11.13 12.0 ROOF ACCESSORIES 12.1-12.6 - 10' RIDGE VENTILATORS (9" & 12" THROAT) 12.1-12.6 - HARD RUBBER INSIDE CLOSURE 12.7-12.9<	5.0 PRELIMINARY ERECTION INFORMATION	5.1
7.0 STANDING SEAM ROOP STSTEM 7.1-7.3 8.0 BASIC SSR COMPONENTS 8.1-8.2 9.0 FASTENER SCHEDULE 9.1-9.2 - ADDITIONAL TOOLS REQUIRED FOR SSR 9.2 10.0 SYSTEM INSTALLATION 10.1-10.4 - ROOF INSULATION 10.1-10.4 - SSR WORK POINTS 10.5-10.6 - PANEL INSTALLATION 10.7-10.12 - ALTERNATE ICE DAMMING WEATHERSEAL 10.3 - SSR MODULE STRIP INSTALLATION 10.14-10.15 - ENDLAP INSTALLATION 10.14-10.15 - ENDLAP INSTALLATION 10.16-10.18 - RIDGE INSTALLATION 10.19-10.30 11.0 FASCIA CONDITIONS 11.2-11.3 - EAVE FASCIA INSTALLATION 11.2-11.3 - HIGH EAVE INSTALLATION 11.4-11.5 - FASCIA INSTALLATION 11.6-11.8 - RAKE FASCIA INSTALLATION 11.9-11.11 - PEAK CAP & RAKE TO RIDGE TRANSITION 11.12-11.13 12.0 ROOF ACCESSORIES 12.1-12.6 - 10' RIDGE VENTILATORS (9" & 12" THROAT) 12.1-12.6 - HARD RUBBER INSIDE CLOSURE 12.7-12.9 - SSR TUF-LITE 12.10-12.13 - A	0.0 PURLIN BLUCKING	0.1
0.0 FASTENER SCHEDULE 9.1-9.2 9.0 FASTENER SCHEDULE 9.1-9.2 9.0 FASTENER SCHEDULE 9.1-9.2 9.0 FASTENER SCHEDULE 9.2 10.0 SYSTEM INSTALLATION 10.1-10.4 ROOF INSULATION 10.5-10.6 PANEL INSTALLATION 10.7-10.12 ALTERNATE ICE DAMMING WEATHERSEAL 10.3 SSR MODULE STRIP INSTALLATION 10.14-10.15 ENDLAP INSTALLATION 10.16-10.18 RIDGE INSTALLATION 10.19-10.30 11.0 FASCIA CONDITIONS 11.2-11.3 EAVE FASCIA INSTALLATION 11.2-11.3 HIGH EAVE INSTALLATION 11.4-11.5 FASCIA CLOSURE ASSEMBLIES 11.6-11.8 RAKE FASCIA INSTALLATION 11.2-11.3 HIGH EAVE INSTALLATION 11.2-11.13 PEAK CAP & RAKE TO RIDGE TRANSITION 11.2-11.13 12.0 ROOF ACCESSORIES 12.1-12.6 -10' RIDGE VENTILATORS (9" & 12" THROAT) 12.1-12.6 -10' RIDGE VENTILATORS (9" & 12" THROAT) 12.1-12.6 -20' SSR TUF-LITE 12.10-12.13 -20' VENT 12.10-12.13 -20' VENT 12.14 RIGID BOARD INSULATION	8.0 BASIC SSP COMPONENTS	8 1-8 2
ADDITIONAL TOOLS REQUIRED FOR SSR9.210.0 SYSTEM INSTALLATION10.1-10.4- ROOF INSULATION10.5-10.6- PANEL INSTALLATION10.7-10.12- ALTERNATE ICE DAMMING WEATHERSEAL10.3- SSR MODULE STRIP INSTALLATION10.14-10.15- ENDLAP INSTALLATION10.16-10.18- RIDGE INSTALLATION10.19-10.3011.0 FASCIA CONDITIONS11.2-11.3- EAVE FASCIA INSTALLATION11.2-11.3- HIGH EAVE INSTALLATION11.4-11.5- FASCIA CLOSURE ASSEMBLIES11.6-11.8- RAKE FASCIA INSTALLATION11.2-11.13- LOOF ACCESSORIES11.1- 10' RIDGE VENTILATORS (9" & 12" THROAT)12.1-12.6- HARD RUBBER INSIDE CLOSURE12.7-12.9- SSR TUF-LITE12.10-12.13- APEX 20 VENT12.14- RIGID BOARD INSULATION12.15-12.18	9.0 FASTENER SCHEDULE	9 1-9 2
10.0 SYSTEM INSTALLATION10.1-10.4- ROOF INSULATION10.5-10.6- ROOF INSULATION10.7-10.12- ALTERNATE ICE DAMMING WEATHERSEAL10.3- SSR MODULE STRIP INSTALLATION10.14-10.15- ENDLAP INSTALLATION10.16-10.18- RIDGE INSTALLATION10.19-10.3011.0 FASCIA CONDITIONS11.2-11.3- EAVE FASCIA INSTALLATION11.2-11.3- HIGH EAVE INSTALLATION11.4-11.5- FASCIA CLOSURE ASSEMBLIES11.6-11.8- RAKE FASCIA INSTALLATION11.9-11.11- PEAK CAP & RAKE TO RIDGE TRANSITION11.12-11.1312.0 ROOF ACCESSORIES12.7-12.9- 10' RIDGE VENTILATORS (9" & 12" THROAT)12.1-12.6- HARD RUBBER INSIDE CLOSURE12.7-12.9- SSR TUF-LITE12.10-12.13- APEX 20 VENT12.14- RIGID BOARD INSULATION12.5-12.18	- ADDITIONAL TOOLS REQUIRED FOR SSR	9.2
10.0 SYSTEM INSTALLATION 10.1-10.4 - ROOF INSULATION 10.5-10.6 - PANEL INSTALLATION 10.7-10.12 - ALTERNATE ICE DAMMING WEATHERSEAL 10.3 - SSR MODULE STRIP INSTALLATION 10.14-10.15 - ENDLAP INSTALLATION 10.16-10.18 - RIDGE INSTALLATION 10.19-10.30 11.0 FASCIA CONDITIONS 11.1 - EAVE FASCIA INSTALLATION 11.2-11.3 - HIGH EAVE INSTALLATION 11.4-11.5 - FASCIA CONDITIONS 11.4-11.5 - FASCIA CLOSURE ASSEMBLIES 11.6-11.8 - RIDGE VENTILATION 11.4-11.5 - FASCIA CLOSURE ASSEMBLIES 11.6-11.8 - RAKE FASCIA INSTALLATION 11.1-1.1 - PEAK CAP & RAKE TO RIDGE TRANSITION 11.12-11.13 12.0 ROOF ACCESSORIES 12.1-12.6 - 10' RIDGE VENTILATORS (9" & 12" THROAT) 12.1-12.6 - HARD RUBBER INSIDE CLOSURE 12.10-12.13 - SSR TUF-LITE 12.10-12.13<		0.2
- ROOF INSULATION 10.1-10.4 - SSR WORK POINTS 10.5-10.6 - PANEL INSTALLATION 10.7-10.12 - ALTERNATE ICE DAMMING WEATHERSEAL 10.3 - SSR MODULE STRIP INSTALLATION 10.14-10.15 - ENDLAP INSTALLATION 10.16-10.18 - RIDGE INSTALLATION 10.19-10.30 11.0 FASCIA CONDITIONS 11.2 - EAVE FASCIA INSTALLATION 11.2-11.3 - HIGH EAVE INSTALLATION 11.4-11.5 - FASCIA CLOSURE ASSEMBLIES 11.6-11.8 - RAKE FASCIA INSTALLATION 11.2-11.13 - PAKE FASCIA INSTALLATION 11.2-11.13 - FASCIA CLOSURE ASSEMBLIES 11.6-11.8 - RAKE FASCIA INSTALLATION 11.1-1.1 - PEAK CAP & RAKE TO RIDGE TRANSITION 11.12-11.13 12.0 ROOF ACCESSORIES 11.12-11.13 - 10' RIDGE VENTILATORS (9" & 12" THROAT) 12.1-12.6 - HARD RUBBER INSIDE CLOSURE 12.7-12.9 - SSR TUF-LITE 12.10-12.13 - APEX 20 VENT 12.14 - RIGID BOARD INSULATION 12.15-12.18	10.0 SYSTEM INSTALLATION	
- SSR WORK POINTS 10.5-10.6 - PANEL INSTALLATION 10.7-10.12 - ALTERNATE ICE DAMMING WEATHERSEAL 10.3 - SSR MODULE STRIP INSTALLATION 10.14-10.15 - ENDLAP INSTALLATION 10.16-10.18 - RIDGE INSTALLATION 10.19-10.30 11.0 FASCIA CONDITIONS 11.1 - EAVE FASCIA INSTALLATION 11.2-11.3 - HIGH EAVE INSTALLATION 11.2-11.3 - HIGH EAVE INSTALLATION 11.4-11.5 - FASCIA CLOSURE ASSEMBLIES 11.6-11.8 - RAKE FASCIA INSTALLATION 11.2-11.13 - FASCIA CLOSURE ASSEMBLIES 11.6-11.8 - RAKE FASCIA INSTALLATION 11.9-11.11 - PEAK CAP & RAKE TO RIDGE TRANSITION 11.12-11.13 12.0 ROOF ACCESSORIES 11.12-11.13 - 10' RIDGE VENTILATORS (9" & 12" THROAT) 12.1-12.6 - HARD RUBBER INSIDE CLOSURE 12.7-12.9 - SSR TUF-LITE 12.10-12.13 - APEX 20 VENT 12.14 - RIGID BOARD INSULATION 12.15-12.18	- ROOF INSULATION	10.1-10.4
- PANEL INSTALLATION 10.7-10.12 - ALTERNATE ICE DAMMING WEATHERSEAL 10.3 - SSR MODULE STRIP INSTALLATION 10.14-10.15 - ENDLAP INSTALLATION 10.16-10.18 - RIDGE INSTALLATION 10.19-10.30 11.0 FASCIA CONDITIONS 11.1 - EAVE FASCIA INSTALLATION 11.2-11.3 - HIGH EAVE INSTALLATION 11.2-11.3 - HIGH EAVE INSTALLATION 11.4-11.5 - FASCIA CLOSURE ASSEMBLIES 11.6-11.8 - RAKE FASCIA INSTALLATION 11.9-11.11 - PEAK CAP & RAKE TO RIDGE TRANSITION 11.12-11.13 12.0 ROOF ACCESSORIES 12.1-12.6 - 10' RIDGE VENTILATORS (9" & 12" THROAT) 12.1-12.6 - HARD RUBBER INSIDE CLOSURE 12.7-12.9 - SSR TUF-LITE 12.10-12.13 - APEX 20 VENT 12.14 - RIGID BOARD INSULATION 12.15-12.18	- SSR WORK POINTS	10.5-10.6
- ALTERNATE ICE DAMINING WEATHERSEAL10.3- SSR MODULE STRIP INSTALLATION10.14-10.15- ENDLAP INSTALLATION10.16-10.18- RIDGE INSTALLATION10.19-10.3011.0 FASCIA CONDITIONS11.2- EAVE FASCIA INSTALLATION11.2-11.3- HIGH EAVE INSTALLATION11.4-11.5- FASCIA CLOSURE ASSEMBLIES11.6-11.8- RAKE FASCIA INSTALLATION11.9-11.11- PEAK CAP & RAKE TO RIDGE TRANSITION11.12-11.1312.0 ROOF ACCESSORIES12.1-12.6- 10' RIDGE VENTILATORS (9" & 12" THROAT)12.1-12.6- HARD RUBBER INSIDE CLOSURE12.7-12.9- SSR TUF-LITE12.10-12.13- APEX 20 VENT12.14- RIGID BOARD INSULATION12.15-12.18		10.7-10.12
- SSR MODULE STRIPTING FALLATION10.14-10.15- ENDLAP INSTALLATION10.16-10.18- RIDGE INSTALLATION10.19-10.3011.0 FASCIA CONDITIONS11.1- EAVE FASCIA INSTALLATION11.2-11.3- HIGH EAVE INSTALLATION11.4-11.5- FASCIA CLOSURE ASSEMBLIES11.6-11.8- RAKE FASCIA INSTALLATION11.9-11.11- PEAK CAP & RAKE TO RIDGE TRANSITION11.12-11.1312.0 ROOF ACCESSORIES12.1-12.6- 10' RIDGE VENTILATORS (9" & 12" THROAT)12.1-12.6- HARD RUBBER INSIDE CLOSURE12.7-12.9- SSR TUF-LITE12.10-12.13- APEX 20 VENT12.14- RIGID BOARD INSULATION12.15-12.18		10.3
- ENDEAT INOTALEATION10.10-10.10- RIDGE INSTALLATION10.19-10.3011.0 FASCIA CONDITIONS11.1- EAVE FASCIA INSTALLATION11.2-11.3- HIGH EAVE INSTALLATION11.4-11.5- FASCIA CLOSURE ASSEMBLIES11.6-11.8- RAKE FASCIA INSTALLATION11.9-11.11- PEAK CAP & RAKE TO RIDGE TRANSITION11.12-11.1312.0 ROOF ACCESSORIES12.1-12.6- 10' RIDGE VENTILATORS (9" & 12" THROAT)12.1-12.6- HARD RUBBER INSIDE CLOSURE12.7-12.9- SSR TUF-LITE12.10-12.13- APEX 20 VENT12.14- RIGID BOARD INSULATION12.15-12.18		10.14-10.13
11.0 FASCIA CONDITIONSEAVE FASCIA INSTALLATION11.1EAVE GUTTER INSTALLATION11.2-11.3HIGH EAVE INSTALLATION11.4-11.5FASCIA CLOSURE ASSEMBLIES11.6-11.8RAKE FASCIA INSTALLATION11.9-11.11PEAK CAP & RAKE TO RIDGE TRANSITION11.12-11.1312.0 ROOF ACCESSORIES12.1-12.6- 10' RIDGE VENTILATORS (9" & 12" THROAT)12.1-12.6- SSR TUF-LITE12.10-12.13- APEX 20 VENT12.14- RIGID BOARD INSULATION12.15-12.18	- RIDGE INSTALLATION	10.19-10.30
11.0 FASCIA CONDITIONS11.1- EAVE FASCIA INSTALLATION11.2-11.3- EAVE GUTTER INSTALLATION11.2-11.3- HIGH EAVE INSTALLATION11.4-11.5- FASCIA CLOSURE ASSEMBLIES11.6-11.8- RAKE FASCIA INSTALLATION11.9-11.11- PEAK CAP & RAKE TO RIDGE TRANSITION11.12-11.1312.0 ROOF ACCESSORIES12.1-12.6- 10' RIDGE VENTILATORS (9" & 12" THROAT)12.1-12.6- HARD RUBBER INSIDE CLOSURE12.7-12.9- SSR TUF-LITE12.10-12.13- APEX 20 VENT12.14- RIGID BOARD INSULATION12.15-12.18		
- EAVE FASCIA INSTALLATION11.1- EAVE GUTTER INSTALLATION11.2-11.3- HIGH EAVE INSTALLATION11.4-11.5- FASCIA CLOSURE ASSEMBLIES11.6-11.8- RAKE FASCIA INSTALLATION11.9-11.11- PEAK CAP & RAKE TO RIDGE TRANSITION11.12-11.1312.0 ROOF ACCESSORIES12.1-12.6- 10' RIDGE VENTILATORS (9" & 12" THROAT)12.1-12.6- HARD RUBBER INSIDE CLOSURE12.7-12.9- SSR TUF-LITE12.10-12.13- APEX 20 VENT12.14- RIGID BOARD INSULATION12.15-12.18		44.4
 EAVE GUTTER INSTALLATION 11.2-11.3 HIGH EAVE INSTALLATION 11.4-11.5 FASCIA CLOSURE ASSEMBLIES 11.6-11.8 RAKE FASCIA INSTALLATION 11.9-11.11 PEAK CAP & RAKE TO RIDGE TRANSITION 11.12-11.13 12.0 ROOF ACCESSORIES 10' RIDGE VENTILATORS (9" & 12" THROAT) 12.1-12.6 HARD RUBBER INSIDE CLOSURE 12.7-12.9 SSR TUF-LITE 12.10-12.13 APEX 20 VENT 12.14 RIGID BOARD INSULATION 12.15-12.18 		11.1
 FASCIA CLOSURE ASSEMBLIES FASCIA CLOSURE ASSEMBLIES RAKE FASCIA INSTALLATION PEAK CAP & RAKE TO RIDGE TRANSITION 12.0 ROOF ACCESSORIES 10' RIDGE VENTILATORS (9" & 12" THROAT) HARD RUBBER INSIDE CLOSURE SSR TUF-LITE APEX 20 VENT RIGID BOARD INSULATION 		11.2-11.3
 - RAKE FASCIA INSTALLATION - PEAK CAP & RAKE TO RIDGE TRANSITION 12.0 ROOF ACCESSORIES - 10' RIDGE VENTILATORS (9" & 12" THROAT) - HARD RUBBER INSIDE CLOSURE - SSR TUF-LITE - APEX 20 VENT - RIGID BOARD INSULATION 	- FASCIA CLOSURE ASSEMBLIES	11 6-11 8
 PEAK CAP & RAKE TO RIDGE TRANSITION 12.0 ROOF ACCESSORIES 10' RIDGE VENTILATORS (9" & 12" THROAT) HARD RUBBER INSIDE CLOSURE SSR TUF-LITE APEX 20 VENT RIGID BOARD INSULATION 	- RAKE FASCIA INSTALLATION	11 9-11 11
12.0 ROOF ACCESSORIES - 10' RIDGE VENTILATORS (9" & 12" THROAT) - HARD RUBBER INSIDE CLOSURE - SSR TUF-LITE - APEX 20 VENT - RIGID BOARD INSULATION	- PEAK CAP & RAKE TO RIDGE TRANSITION	11.12-11.13
12.0 ROOF ACCESSORIES - 10' RIDGE VENTILATORS (9" & 12" THROAT) - HARD RUBBER INSIDE CLOSURE - SSR TUF-LITE - APEX 20 VENT - RIGID BOARD INSULATION		
- 10' RIDGE VENTILATORS (9" & 12" THROAT) 12.1-12.6 - HARD RUBBER INSIDE CLOSURE 12.7-12.9 - SSR TUF-LITE 12.10-12.13 - APEX 20 VENT 12.14 - RIGID BOARD INSULATION 12.15-12.18	12.0 ROOF ACCESSORIES	
- NARD ROBBER INSIDE CLOSORE 12.7-12.9 - SSR TUF-LITE 12.10-12.13 - APEX 20 VENT 12.14 - RIGID BOARD INSULATION 12.15-12.18	- 10' KIDGE VENTILATORS (9" & 12" THROAT)	12.1-12.6
- APEX 20 VENT 12.10-12.13 - RIGID BOARD INSULATION 12.15-12.18		12.7-12.9
- RIGID BOARD INSULATION 12.15-12.18	- APEX 20 VENT	12.10-12.13 12.14
	- RIGID BOARD INSULATION	12 15-12 18

PREFACE

All materials, components and accessories sold to Builders are provided subject to written agreements signed by VP Buildings. Any applicable warranties are as set forth in those written agreements. Except as provided in those written agreements, VP BUILDINGS MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

This Installation Guide is intended to provide VP Builders and/or their erectors with the recommended procedures for constructing VP Buildings as efficiently as possible. However, VP Buildings does not guarantee and is not liable for the guality of erection nor assume any responsibility for building defects that may be attributed to improper erection techniques, or the negligence of other parties.

VP Buildings are designed for versatility, simplicity, and economy. When assembled according to plans and instructions they give superior performance to satisfied customers.

The SSR ROOF is covered by the following patents:

UNITED STATES	CANADA
4.193.247	1.090.524
4.213.282	1.090.525
4.224.775	1.090.980
4.296.581	1.131.871
4.420.913	1.192.369
4.467.586	
4.651.489	
4.802.316	

THIS GUIDE IS A SUPPLEMENT TO THE VP BUILDINGS BASIC ERECTION GUIDE

The recommended construction procedures in this manual are an integral part of the SSR roof system design. Use with VP Buildings Erection Drawings, Standard Erection Details, and Shipping Part List to identify the SSR materials, insulation requirements and dimensions for each building.

REVIEW, STUDY, AND UNDERSTAND THESE DOCUMENTS BEFORE INSTALLING THE SSR ROOF SYSTEM. Call your Engineering Service Center with any questions before proceeding.

KEY SSR PROCEDURES SSR WORK POINTS:

Carefully establish all work points prior to installing the SSR roof system. The eave and starting rake work points are of particular importance as they set the location of endlaps, ridge, roof accessories, etc.

SSR MODULE (CRITICAL):

Hold the correct SSR panel module of 2'-0" (610mm) during installation of the SSR roof system. Accurate and proper installation of endlaps, ridge, roof accessories, high and low eave conditions, etc., are only possible when the 2'-0" (610mm) SSR panel module is held. The SSR Seamer tool will operate at best speed, with least maintenance and provide the best possible seams and panel condition when the 2'-0" (610mm) SSR panel module is held. SSR panel module is a tolerance of \pm 1/8" Rib to Rib; not to exceed \pm 1/4" in any 10ft.

SSR CLEANING:

Clean all mating surfaces prior to application of weatherproofing materials. Tape mastics and tube sealants only adhere properly to clean, dry surfaces. REMOVE oil, grease, dust, dirt, mud, rain, dew, frost, snow or ice from all surfaces that contact tape mastics and tube sealants applied during weatherproofing procedures.

Some surfaces included are endlaps, ridge and rake assemblies, eave conditions, height changes and roof accessories.

Check and clean the male and female halves of the SSR seam before assembly.

SSR SEAMING:

The seaming operation joins the individual SSR panels to form the structural and protective SSR roof membranes.

REQUIRED before seamer tool is removed from box:

- SSR panels are installed properly on module;
- Endlaps correctly formed;
- Under seam weather seals are in place;
- Seams checked and properly engaged;
- Seams are clean;
- Seaming instructions studied and understood;

Correct seaming procedures are shown in the "SSR Seamer Tool-Field Manual".

ONLY by following these procedures will it be possible to properly complete installation of the SSR roof panels.

INSULATION:

To prevent damaged insulation do not install faced fiberglass insulation below its minimum recommended installation temperature. Each facing type has a different minimum recommended installation temperature. Therefore, contact the insulation supplier for installation temperatures.

RECEIVING SHIPMENT

When fabrication is complete, shipment is made to the building site. The panels are carefully bundled and inspected to prevent damage during transportation. The transportation company is responsible for delivering these components undamaged.

When the shipment is received check each item against the proper shipping document. If a shortage is discovered, have the transportation agent make a notation to the effect on your bill.

Examine your shipment carefully for damage. If damage is found be sure the agent makes a damage notation on the bill before accepting it.

If damage is concealed until packaging is removed, call your agent at once for an inspection and obtain an inspection memorandum covering concealed damage.

ON SITE STORAGE

SSR roof panels shall be stored on the job site following the listed recommendations for on site protection of the panels



Note: Bundles received wet must be dried prior to storage to prevent corrosion or paint damage.

- 1. Block above ground to keep out water
- 2. Slope bundles for drainage.
- 3. Cover with a tarp or plastic to protect from rain or snow.
- 4. Tie down cover ends away from stack to permit free air movement do not wrap under or restrict air movement.

COVER WITH

PLASTIC OR TARP

SLOPE FOR DRAINAGE

HANDLING SSR PANELS

- 1. SSR Panels are packaged in banded bundles of approximately 22-27 panels per bundle.
- 2. The banded bundles are quite rigid, but it is recommended that a spreader bar be used when moving bundles by forklift or crane. (See Below)
- 3. Nylon slings at quarter points should be used to prevent damage. Note: The bottom panel in a bundle is intended to be used and is not a "scrap" sheet. Check for damage when unloading from the truck.
- 4. Care is required when cutting the bands as the bundles will spring open when tension is released.
- 5. Single sheets are best carried "on edge" to prevent buckling. Sheets carried "flat" should have one man per 15' (4.57m) of sheet.
- 6. Galvalume panels may have a protective coating of oil and painted panels may have a wax film. Extreme caution is necessary when walking on the panels to prevent falling during and immediately after erection. These coatings will dissipate upon exposure to the weather.

HANDLING METHODS

Shown are some suggested methods of handling SSR panels.



PRELIMINARY ERECTION INFORMATION

IMPORTANT

It is extremely important that the building and especially the roof plane be plumb and square before starting the SSR roof system installation. If the building is not square it will be impossible to maintain clip and panel seam alignment.



DIRECTION OF PANEL ERECTION

The design of the SSR roof system allows the panel to be erected in either direction, left or right, or left to right. (Refer to the Erection Drawings if VP Buildings requires a specific erection sequence due to certain job conditions).

Panel Direction Note:

Panels shown on Front Roof as LEFT to RIGHT panel direction. Panel shown on Back Roof as RIGHT to LEFT panel direction. It is the Erector's responsibility to determine the direction that the panel should be installed. Consult the Erection Drawings to confirm a specific direction has not been pre-determined.



NOTE:

The Erector has the choice of direction of panel installation, with the exception of special conditions. Some buildings require a specific panel installation direction, thus the Erection Drawings should govern.



BLOCKING METHOD

NOTE: DO NOT LEAVE UNBUNDLED PANELS UNATTENDED FOR EXTENDED PERIODS. SECURE LOOSE PANELS OVERNIGHT.

- bundle should not be located over jack beams or jack trusses. 3. Blocking should be installed between all purlins at the frames
- where bundles are to be located. Length of blocking should equal purlin spacing.
- 4. Remove blocking after panels are installed.
- 5. When the alternate blocking method is used, the same procedures must be followed.



STANDING SEAM ROOF SYSTEM PANEL DESCRIPTION



PANEL SECTION

IMPORTANT NOTE THE SSR JOINT DETAIL IS DESIGNED WITH AN INTERLOCKING FEATURE FOR EASE OF INSTALLATION. HOWEVER, IT IS HIGHLY RECOMMENDED THAT INSTALLED SSR PANELS BE SECURED TO SECONDARY STRUCTURAL MEMBERS AND PROPERLY SEAMED PRIOR TO DEPARTURE FROM THE JOB SITE EACH DAY.



JOINT DETAIL

The following pages include information showing placement of panels and specific details regarding attachment methods and structural preparation to receive the standing seam roof system

STANDING SEAM ROOF SYSTEM

FIXED & SLIDING SSR CLIPS

Note: The SSR panel is intended to be secured to the purlins with a combination of sliding and fixed clips. The position of the fixed clips along the slope of the roof will vary with the width of the roof and with special conditions (i.e. multi-gutter, parapets, etc.). It is essential that the fixed clips be installed in the designated locations for proper thermal movement. Refer to the erection drawings for the correct location. If in doubt as to the required location, contact the VP service center for clarification. Below are some possible combinations:



1. Fixed clips at the low eave and movement toward ridge or high side - "fixed eave" conditions with purlin support members at first eave space.



2. Fixed clips at ridge or high side - movement towards the low eave - "floating eave" condition with purlin supports at or near ridge. (NOT ALLOWED WITH MULTI-GUTTER OR VALLEY GUTTER)



3. Fixed clips at or near mid-slope - movement towards low eave and ridge or high eave - "floating eave" and ridge - purlin supports at or near mid-slope. (NOT ALLOWED WITH MULTI-GUTTER OR VALLEY GUTTER)



- 4. Very wide roofs may incorporate stepped expansion areas at or near mid slope. These roofs may have a combination of the above conditions on different roof planes.
- * Fixed clips will typically be used on only (3) adjacent purlins or joist. Fixed clips wil not be used full slope.

STANDING SEAM ROOF SYSTEM

SSR PANEL CLIP VARIATIONS

In addition to the fixed and sliding tab options, SSR clips are available in (4) height variations to accommodate insulation options. The use of the correct clip for the insulation system being installed will enable the erector to maintain panel modularity and improve the performance of the system.

The variations, purpose, and identification of the clips is as follows:

1. Short Clip

Use for blanket insulation thickness from 0" to 6" (152mm) without thermal block and over rigid board. The clip is 3 1/2" (89mm) high from the base to the top of the tab and is identified by "SHORT" stamped into the base.

2. Medium Clip

Use for blanket insulation thickness greater than 6" (152mm) without thermal block. The clip is 4" (102mm) high from the base to the top of the tab and is identified by "MED" stamped into the base.

3. Tall Clip

Use for blanket insulation thickness from 0" to 6" (152mm) with thermal block. The clip is 4 1/2" (108mm) high from the base to the top of the tab and is identified by "TALL" stamped into the base.

4. Extra Tall

Use for blanket insulation thickness from > 6" (152mm) with thermal block. The clip is 5" (127mm) high from the base to the top of the tab and is identified by "XTALL" stamped into the base.

Note: It is not recommended that SSR be installed without insulation between the panel and the purlin or rigid board insulation as roof rumble will occur.

COMPONENTS SHOWN ARE USED THROUGHOUT THE SSR ROOF SYSTEM. LOCATE AND MAKE AVAILBLE TO ROOFING CREW BEFORE BEGINNING ERECTION.







1/8" x 1" x 25' Roll (3mm x 25 mm x 8m) TAPE MASTIC



SSR PANEL CLIP (NOTE: Fixed clip has painted tab)

BASIC SSR COMPONENTS



FASTENER SCHEDULE

FASTE	ENERS	APPLIC	CATION
CARBON ROOF STRUCTURAL	1/4 -14 x 1 1/4" (32mm) UP TO 6" (152mm) BLKT INS. SELF - DRILING CARBON ROOF STRUCTURAL	- SSR PANEL CIPS - SECONDARY STRUCTURAL CONNECTIONS	
S.S. ROOF STRUCTURAL	#12-14 x 1 1/4" (32mm) SELF-DRILLING STAINLESS STEEL ROOF STRUCTURAL FASTENER W/ 5/8" (16mm) SEALING WASHER	- PANEL TO STRUCTURAL - ACCESSORIES - RAKE FASCIA - ENDLAPS	
S.S. ROOF STITCH	1/4 -14 x 7/8" (22mm) SELF -DRILLING STAINLESS STEEL FASTNER W/ 5/8" (16mm) SEALING WASHER	- RIDGE - EAVE FASCIA - EAVE GUTTER - ACCESSORIES - PANEL REPAIR	
NOTE 1	12 - 24 x VAR. SELF - DRILLING CARBON ROOF STRUCTURAL	- SSR PANEL CLIPS TO JOIST	
S.S. WALL STITCH	1/4 - 14 x 7/8" (22mm) SELF - DRILLING STAINLESS STEEL WALL STITCH FASTENER W/ 5/8"(16mm) SEALING WASHER	 ALUMINUM FASCIA RETAINER WALL PANELS TO WALL PANELS TRIM ATTACHMENTS 	
SPECIAL LENGTH CARBON ROOF STRUCTURAL	12 - 24 x SPCL. LENGTH SELF DRILLING CARBON	- SSR PANEL CLIPS OVER RIGID BOARD INSULATION	
			TITY OF FASTENERS SHIDDED
2. THE ABOVE INFORMATION I FASTENER.	S TO BE USED AS AN IDENTIFICA	TION GUIDE FOR THE PROPER	APPLICATION OF EACH TYPE

FASTENER SCHEDULE

FASTE	INERS	APPLIC	CATION
	1/8" (3mm) BLIND RIVET	- EAVE FASCIA - EAVE GUTTER - RAKE FASCIA	
	VP-200 RIVET	- GUTTER STRAP	

ADDITIONAL TOOLS REQUIRED FOR SSR

τοοι	. LIST	APPLI	CATION
	SCREW GUN	- SELF DRILLING FASTENERS INSTALLATIONS ROOF AND WALLS	· · · ·
	LIGHT GAGE NIBBLER	- CUTTING FLAT AND CORRUGATED METAL	
	PORTABLE POWER SHEARS	- CUTTING FLAT METAL	



eave.

ROOF INSULATION - BLANKET INSULATION

Blanket insulation may be shipped on some buildings so that more than one run is included in a roll. Study building requirements to insure enough rolls of material has been furnished.

Blanket insulation must be installed from eave purlin to ridge or high eave because of direction of panel installation.





AFTER INSTALLING THE FIRST RUN OF INSULATION, PANELING CAN BE STARTED. PANEL CLIP MUST SIT ON TOP OF INSULATION.



BLANKET INSULATION WITH THERMAL BLOCK



After installing a run of blanket insulation, the normal panel sequence can begin. The only change being adding the thermal block at the purlin runs.

The thermal block is forced against the panel clip, then dropped into position. Paneling is then continued.



SECTION AT EAVE

SSR WORK POINTS

IDENTIFY AND MARK THE LOCATION OF SSR WORKPOINTS.

USE THIS MANUAL AND OTHER ERECTION GUIDES PROVIDED, IN CONJUNCTION WITH VP BUILDINGS ERECTION DRAWINGS AND STANDARD ERECTION DETAILS TO ACCURATELY DETERMINE SSR WORKPOINTS FOR YOUR BUILDING.

WORKPOINTS SHOWN ON THIS AND FOLLOWING PAGES DO NOT REFLECT ALL POSSIBLE CONDITIONS. REFER TO APPLICABLE SECTION OF MANUAL FOR EACH SPECIFIC CONDITION.



SSR WORK POINTS



PANEL INSTALLATION

- 1. Lay first roll of insulation and clamp off.
- 2. Set rake support cap on rake support bracket and insulation.
- 3. Locate a string line at building eave. Set string to correct eave overhang dimension.
- 4. Install rake support cap, butted end to end, the length of the building slope. Start at the eave and stop the rake support cap 6" (152mm) from the center line of the ridge.



PREPARE RAKE

PANEL INSTALLATION



AT EAVE

LOW EAVE END OF PANEL

MASTIC IS APPLIED TO THE MALE RIB AS SHOWN TO PREVENT WATER FROM SIPHONING BACK UP THE SEAM AND ENTERING THE BUILDING. MASTIC IS APPLIED BEFORE SETTING NEXT PANEL RUN.

RIDGE END OF PANEL

AT RIDGE

FORM BEAD OF TAPE MASTIC 1/4" (6mm) DIA. x 6" (152mm) LONG AND PUSH UNDER THE OPEN SEAM . REPEAT AT EACH SEAM ALONG ENTIRE LENGTH OF RIDGE, BOTH SLOPES.

PANEL INSTALLATION



PANEL INSTALLATION

The panel clip consists of a base clip and factory assembled seaming tab. The sliding clip is designed to allow panel movement due to thermal expansion.

The seaming tab must be located at the centerline of the base clip.



PANEL CLIP DETAIL

PANEL INSTALLATION



Ŗ

SYSTEM INSTALLATION PANEL INSTALLATION - LAST PANEL RUN





CLEAN ALL SURFACES TO BE WEATHER SEALED.

SSR ALTERNATE ICE DAMMING WEATHERSEAL



SUGGESTED AREAS OF APPLICATION

- ICE DAMING = THE APPLICATION OF ADDITIONAL SEALANTS AT AREAS WHERE SNOW OR ICE WILL BUILD UP AND REMAIN ON THE ROOF FOR AN EXTENDED AMOUNT OF TIME (ALL STANDARD SEALANT APPLICATIONS STILL APPLY, SEE APPROPRIATE DETAILS) (REFER TO ERECTION DRAWINGS FOR ICE DAMMING REQUIREMENTS)
- 1. <u>LOW EAVE</u>: Field applied 3/16" (5mm) bead of non-skinning sealant = 20 L.F. (6.1m) up on each sidelap. Standard 1/8" x 1" x 6" (3mm x 25mm x 152mm) mastic still applies at eave and ridge.
- <u>ROOF HEIGHT CHANGE/SSR PANEL BELOW "WALL TO ROOF" STEP</u>: Field applied 3/16" (5mm) bead of non-skinning sealant = 10 L.F. (3.05m) down on each sidelap. Standard 1/8" x 1" x 6" (3mm x 25mm x 152mm) mastic still applies at eave and ridge.
- 3. <u>STEPPED WALL CHANGES</u>: At height changes, 1/8" x 1" x 6'-0" (3mm x 25mm x 1.83mm) mastic at each wall sidelap. Use stainless steel wall structural & stitch fasteners.
- <u>ROOF HEIGHT CHANGE/SSR PANEL BELOW "ROOF HEIGHT CHANGE" STEP</u>: Field applied 3/16" (5mm) bead of non-skinning sealant at 'THREE' PANEL sidelaps next to ROOF HEIGHT CHANGE condition for ENTIRE length of step.
- 5. <u>ROOF CURBS</u>: Field applied 3/16" (5mm) bead of non skinning sealant = 10' (3.05m) minimum distance ABOVE & BELOW curb and 'THREE' sidelaps away from curb sides.
- <u>TUF-LITES</u>: Field applied 3/16" (5mm) bead of non-skinning sealant = 10' (3.05m) continuous at sidelaps (BOTH SIDES).

NOTE: STANDARD MASTIC OR SEALANT APPLICATION REQUIRED AT RIDGE, RAKE, EAVE, ENDLAPS, MULTI/VALLEY GUTTER, ETC. CONDITIONS (SEE APPROPRIATE DETAILS)

SSR MODULE STRIP INSTALLATION (OPTIONAL)



TYPICAL MODULE STRIP INSTALLATION

(NOTE: 2 Clip Fasteners Required per Module Strip)

SSR MODULE STRIP INSTALLATION (OPTIONAL)



SYSTEM INSTALLATION **ENDLAP INSTALLATION**



- 3. Lay in-place one run of 28" (711mm) long tape mastic. Start on male side of lap and follow contour of SSR panel. Do not stretch the mastic. (Leave paper in place until just prior to installing upper panel.
- 4. Apply sealant to panel notch in location as shown above.
- 5. Install upper panel. Upper panel must lap lower panel 4" (102mm).
- 6. Install SSR panel clip making sure when tab and clip are rolled into place, the shoulder of the clip is inserted under the top flange of the panel stiffener. When in place, the top flanges of both sides of the panel stiffener will rest on the shoulders of the SSR clips. This is very important to assure alignment of the rib area and the to provide back-up for the end lap fasteners that will be installed in the rib area.

FASTENER INSTALLATION



When installing the upper panel it is necessary to raise the male lip of the lower panel to provide clearance for the male rib of the upper panel. Open the first 4" of the lower male rib. Once the upper panel is in place, the lower panel male rib needs to be moved back into place before seaming.

- 1. After upper panel is in place, install the endlap fasteners. Fasteners should be installed prior to panel seaming.
- 2. Fasteners should be installed at dimples in the upper panel or in locations shown in dimensions below. A total of seven fasteners, five in the flat and one each in opposite rib shoulders must be installed to provide a weather tight seal.
- 3. The sequence for the endlap fasteners is as follows:
 - A. Install five endlap fasteners in the flat of the panel first.
 - a. Center fastener first (A).
 - b. Fasteners on either side of center fastener (B).
 - c. Fasteners near major ribs (C).
- B. Install Shoulder/Rib fasteners D & E, fasteners in shoulders of major ribs using Loc-Tight vise grips where possible.



SYSTEM INSTALLATION FASTENER INSTALLATION



IMPORTANT



- SSR ridge panels and related components are factory notched and non handed
- Direction of ridge installation is a field choice.
- Male ridge panels are installed first, female panels next, starting at same end of ridge as first male panel.
- Endlaps of female panels are staggered from endlaps of male panels.



SYSTEM INSTALLATION RIDGE INSTALLATION


RIDGE INSTALLATION - MALE PANELS



RIDGE INSTALLATION - MALE PANELS



RIDGE INSTALLATION - MALE PANELS - WEATHERSEAL



MASTIC INSTALLATION

RIDGE INSTALLATION - MALE PANELS - WEATHERSEAL



FASTENER PATTERN

RIDGE INSTALLATION - MALE PANELS - ENDLAPS



NOTE: The panel has a factory notched lip of the male panel so it will nest tightly with the previously installed male panel.

- 12. Temporarily position male panel next to stringline. Nest endlap with installed male panel. Mark edge and lap location roof panels. (DO NOT USE PENCIL)
- 13. Install tape mastic as in steps 6 and 7
 - Add mastic to endlap condition.
 - Add 1/4" x 4" (6mm x 107mm) mastic bead under lip of installed male panel lap.

- 14. Field cut a Ridge Panel Stiffener to 4 3/4" (7") x 14" [121mm (178mm x 356mm] and locate it at the end of the ridge cap panel. (See stiffener profile below for actual cut dimensions.)
- 15. Reposition male panel next to stringline. Nest endlap condition and clamp endlap tightly together. Push panel firmly into mastic.



PANEL STIFFENER PROFILE AT RIDGE PANEL SPLICE

SYSTEM INSTALLATION RIDGE INSTALLATION - MALE PANELS - ENDLAPS



(5) EQUAL SPACES [APPROX. 3 5/8" (92mm)] ON CENTER

FASTENER PATTERN - ENDLAP

RIDGE INSTALLATION - FEMALE PANELS



RIDGE INSTALLATION - FEMALE PANELS - ENDLAP



RIDGE INSTALLATION - FEMALE PANELS - ENDLAP



SYSTEM INSTALLATION RIDGE INSTALLATION - FEMALE PANELS



- 12. Install S.S. roof struct fasteners as on page 10.24 and: Add fasteners to endlap condition after seam caps are fastened.
- 13. Proceed with female ridge panel installation by following previous steps 7 thru 12.

SEAMING THE RIDGE

- 1. Use previously described SSR roof panel seaming procedures when seaming the SSR ridge.
- 2. The following must be completed before seaming the ridge:
- 1/4" x 9" (6mm x 229mm) mastic bead under open seam at ends of all ridge panel runs. (Step 6 - female panel installation)
- Crimp seam up at all female panel endlaps (Step 11 female panel installation)
- Ridge seam properly engaged full length

FASCIA CONDITIONS

11.1





FASCIA CONDITIONS EAVE GUTTER INSTALLATION



EAVE GUTTER INSTALLATION



FASCIA CONDITIONS

HIGH EAVE INSTALLATION - SINGLE SLOPE BUILDING



- Reposition flashing. Push into mastic.
- Install fasteners

HIGH EAVE INSTALLATION - SINGLE SLOPE BUILDING





FASCIA CONDITIONS

HIGH EAVE - CLOSURE ASSEMBLY



COPE AND TAB DETAIL OUTSIDE

FASCIA CONDITIONS



FASCIA RETAINER INSTALLATION



WITHOUT THERMAL

BLOCK

WITH THERMAL BLOCK

FASCIA CONDITIONS

RAKE FASCIA AND RETAINER INSTALLATION



- 1. Install short piece of retainer:
- Apply adhesive to back of outside closure and set top 1 3/4" (45mm) above chalk line.
- Set bottom of retainer at chalk line. Attach to wall with wall stitch fastener through pre-drilled hole.
- 2. Install remaining lengths of retainer:
- Pre-drill 1/4" (6mm) dia. holes at rib locations.
- Set closures and retainer lengths as in step 1.
- Butt end joints.

- 3. When retainer is securely fastened, insert the lower flange of rake fascia into the lower lip of the retainer. Rotate it up into position.
- 4. Mark the edge of the fascia on the roof panel for placement of tape mastic. Apply the mastic.
- 5. Reposition fascia. Install fasteners. Do not attach fascia to structural members.
- At endlaps, overlap fascia 3" (76mm) and secure with 1/8" (3mm) blind rivets. Weatherseal with skinning sealant.

RAKE FASCIA AND RETAINER INSTALLATION



FASCIA CONDITIONS PEAK CAP AND RAKE TO RIDGE TRANSITION

RAKE FASCIA NOTCH

RAKE FASCIA IS *NOT* FASTENED TO RAKE SUPPORT



1. Field notch rake fascia: remove shaded portion to remove excess material from peak cap area.

PEAK CAP AND RAKE TO RIDGE TRANSITION



ROOF ACCESSORIES

10 FT. RIDGE VENTILATOR 9" & 12" (229mm & 305mm) THROAT

1. Establish vent run locations. Erection drawings identify SSR panel lengths used at vent run locations. Seam the required SSR Panels.

Vent runs always begin and end at the centerline of a "Normal" length SSR panel. Shorter panels are used between these to provide clearance for vents and flashings.

- 2. Cut to length. Install and seam SSR ridge panels at both ends of vent runs.
- 3. Cope SSR rib halves on long panels to length of short panel. Flatten panel stiffener lip (Typical 4 corners).

MNMMMMM 2-0° 610 MBLOG 2-0° 60 MBLOG 2-0° 60 MBLOG 2-0° 60 MBLOG 2-0° 60 MBLOG 2-0° 610 MBLOG 2-0° 610 MBLOG 2-0° 610 MBLOG 3-0° 7-80 MBLOG 3-0° 7-90 MBLOG 3-

SSR PANEL LAYOUT AT VENT



ROOF ACCESSORIES

10' RIDGE VENTILATOR 9" & 12" (229mm & 305mm) THROAT (cont'd)



ROOF ACCESSORIES 10 FT. (3.05m) RIDGE VENTILATOR



10 FT. (3.05m) RIDGE VENTILATOR

- 6. LOCATE AND INSTALL VENT TRANSITIONS AT ENDS OF VENT RUNS.
- 7. LOCATE TRANSITIONS AS SHOWN. MARK PERIMETER AND APPLY MASTIC AND SEALANT. FASTEN WITH S.S. ROOF STRUCT FASTENERS THROUGH HOLES PROVIDED.



WEATHERPROOFING VENT TRANSITION



DO NOT ALLOW INSULATION TO OBSTRUCT VENT OPENING

INSULATION

10 FT. (3.05m) RIDGE VENTILATOR



ROOF ACCESSORIES

MOLDED HARD RUBBER INSIDE CLOSURE

Install fasteners in flat of panel per instructions for each condition. (Example: Valley Gutter, Multi-Gutter, Etc.)



EXTRUDED HARD RUBBER INSIDE CLOSURE

Install fasteners in flat of panel per standard erection details.

Refer to STANDARD ERECTION DETAILS for additional valley details.



Extruded closures are provided to fit specific conditions. Length and angle of cut will vary. Use erection drawing detail to determine part numbers.

ROOF ACCESSORIES

MOLDED HARD RUBBER INSIDE CLOSURE

INSTRUCTIONS

- 1. Apply 1/8" x 1 1/2" (3mm x 38mm) tape mastic 1/2" (13mm) up slope from eave edge of SSR panels.
- 2. Place molded closure plugs at panel edge on 2'-0" (610mm) module to align with SSR rib.
- 3. Install one row of 1/8" x 1 1/2" (3mm x38mm) mastic, field cut to approx. 9" (229mm) long, over closure plug.
- 4. Wrap closure plug with one row of 1/8" x 1 1/2" (3mm x 38mm) mastic when plug is installed, as the panels are layed in place.
- 5. Install one 1/4 14 x 2" structural fastener (55309). This is an optional fastener for pre-locating the molded closure.
- 6. Install a 1/8" x 1" x 9" (3mm x 25mm x 229mm) piece of mastic on vertical leg of male seam before hooking the female seam of next panel.
- 7. Use the "C" clamp pliers to tighten seam; force panel into mastic, very gently drive S.S. roof structural fastener into lower ribs of closure plug.
- 8. After panel is seamed, install S.S. roof structural fastener 3/4" (19mm) from rib on each side.

Clamp seam and force panel into mastic, very gently drive fastener into shoulder.

"C" CLAMP PLIERS



ROOF ACCESSORIES

SSR TUF-LITES

With or without condensation pans.

SSR Tuf-lites with or without condensation pans are installed in sequence shown. Review the following before proceeding.

- Endlap installation (previous section)
- Insulation preparation.
- 1. Complete the panel run adjacent to SSR Tuf-lite including SSR clips and preparation of insulation.
- 2. Set lower panel in place. Install panel stiffeners, mastic, sealants, SSR clips, and prepare insulation.
- 3. Set Tuf-lite in place. Fasten lower endlap. Install panel stiffeners, mastic, sealants, SSR clips, and prepare upper SSR panel.
- 4. Fasten endlap of upper panel to Tuf-lite. Install SSR clip. Proceed with remainder of roof.



PAGES 10.16 THRU 10.18 FOR ENDLAP INISTALLATION PROCEDURES.

IMPORTANT NOTE: TUF-LITES SHALL BE INSTALLED AS ROOF IS PANELED AND PROTECTIVE MEASURES TAKEN TO INSURE AGAINST MATERIALS OR PERSONNEL FALLING THROUGH TUF-LITE

ROOF ACCESSORIES SSR TUF-LITE & SEAM 3" (76mm) PREPARING BLANKET INSULATION **UPPER PURLIN TEAR OFF** FIBERGLASS (2) PURLIN SPACES MINUS 10 1/4" (260mm) FOLD CUT 1 **INTERMEDIATE PURLIN** 5" (127mm) 1'-2" **TEAR OFF** (356mm) CUT FIBERGLASS FOLD 3" (76mm) LOWER PURLIN-9" (229mm) メ 3" (76mm) 3" (76mm) **INSULATION CUTTING DIAGRAM TUF-LITE UPPER PURLIN** SSR PANEL SSR PANEL FOLD INSULATION FACING BACK OVER PURLIN OR THERMAL BLOCK AND THERMAL

UNDER PANEL STIFFENER

LOWER PURLIN

BLOCK (OPTIONAL)

ROOF ACCESSORIES

SSR TUF-LITE PREPARING BLANKET INSULATION

-TUF-LITE



INTERMEDIATE PURLIN FORM CUSHION FROM INSULATION OR WRAP THERMAL BLOCK.



ROOF ACCESSORIES SSR TUF-LITE (U.L. 90)



FACTORY NOTCHED
APEX 20 VENTILATOR



NOTE: DETAILED INSTRUCTIONS ARE PACKAGED WITH EACH VENTILATOR FOR SHIPMENT.

ROOF ACCESSORIES

RIGID BOARD INSULATION

Rigid Board Insulation is normally not supplied by VP Buildings. When used, the SSR roof and various other VP components are modified before shipment to the jobsite. Refer to VP erection drawing for necessary part numbers. Refer to insulation shipping documents (NOT BY VP) for insulation thickness and lengths.

Special length structural fasteners are used to attach the SSR clips and bearing plates through the Rigid Board insulation to the purlins. (2 fasteners per clip) Refer to erection drawings for fastener sizes.

IMPORTANT

When installing fasteners: use nose piece on screw guns, drive & seat first fastener. Then drive and seat the second fastener. Reseat 1st & 2nd fastener. (Rigid Board Insulation compression causes installed fasteners to loosen when next fastener is installed.) DO NOT install SSR clips without bearing plates under them.

ALL CONDITIONS SHOWN ON THIS PAGE **MUST BE COMPLIED WITH WHEN UL-90** SSR WITH RIGID BOARD INSULATION IS **BEING INSTALLED.**

1'.0"

(305mm)

4:0" (1219mm)

SSR panels are installed in the normal manner when Rigid Board Insulation is used to insulate the roof. The following page shows the minor deviations.

STARTER PANEL DIMENSION

4'.0" (1219mm)

(610mm)

RIGID BOARD INSULATION

LAYOUT

SPECIAL LENGTH CARBON STRUCTURAL FASTENERS NOTE: USE (2) FASTENERS SSR PANEL SSR CLIP PURLIN **BEARING PLATE RIGID BOARD INSULATION** SSR CLIP INSTALLATION Seal topside of all joints with sealing tape.

> Rigid Board insulation end joints shall occur over the purlins and shall be staggered on alternating purlins. DO NOT allow end joints to run continuous along a purlin.

Rigid Board insulation side joints shall occur under the center flat area of the SSR panel. DO NOT allow side joints to occur at seam/clip location.

ROOF ACCESSORIES

RIGID BOARD INSULATION



ROOF ACCESSORIES

RIGID BOARD INSULATION



NOTE:



NOTES

Design and recommended installation procedures are subject to change at any time, due to continued development work by Varco Pruden Buildings.

...

All panels formed from light gauge metal may exhibit waviness, also known as "Oil-Canning," commonly occurring in, but not restricted to, flat portions of a panel. This inherent characteristic is not a defect of material or manufacturing and is not cause for rejection.

...

For field installation questions, call your local VP Service Center. The job number is included on all building plans: Arkansas:870-534-6030

California:	
Missouri:	
North Carolina:	
Wisconsin:	



Varco Pruden Buildings, 3200 Players Club Circle, Memphis, TN 38125 ©2014 BlueScope Buildings North America, Inc. All rights reserved. Varco Pruden Buildings[®] is a division of BlueScope Buildings North America, Inc. 4005 SSR Installation Form: EG-902921 Issue Date: 1968 Revision: 8 Revised:

4/16