

2023 Specifications Manual

IMPORTANT NOTICE

IB Roof Systems presents the following general information, installation requirements, specifications, construction details, product data and warranty information for use as a standard guide for the installation of IB roof assemblies on new, reroofing and recover roof installations. Information and requirements contained in this Manual, and within IB's Authorized Applicator and Warranty program shall be used in conjunction with each other for the application of IB membranes and accessory products and as a requirement for obtaining an IB Total System or Limited Material warranty.

Contracts for the performance of work remain solely with the awarding authority and the contractor, IB Roof Systems is not a party to any contract for installation, inspection, or remediation of any products or installations. Contractor/ Applicator/Installer, together with the project owner and project design professional(s), remain solely responsible for developing and verifying project-specific design criteria, on-site dimensions, existing or planned building operational conditions, applicable code requirements, and integration of other building components and constructions impacting roof installation and performance.

IB Roof Systems accepts no responsibility for any products or work except as provided in the written warranty issued for the particular project.







2023 IB Specifications Manual

Table of Contents

Introduction Product Selection Chart General Requirements Mechanically Attached Roof Assemblies Fully Adhered Roof Assemblies Induction Welded Roof Assemblies Ballasted & Paver Roof Assemblies Vegetative Roof Assemblies Overburden, Solar Arrays & Other Miscellaneous Roof Components General Construction Details Warranty Information Maintenance Information Reference Information and Technical Bulletins



	ODUCTION	
PRO	DUCT SELECTION CHART	5-8
	1 - WARRANTY	
1.0	WARRANTY PROGRAM	
1.1	IB ROOF SYSTEMS INSTALLATION	9
	GENERAL POLICIES	
1.3	STATEMENT OF WARRANTY & LIMITATION OF LIABILITY	
Part	2 - GENERAL BUILDING DESIGN	
2.0	BUILDING DESIGN / USE	
2.1	SPECIALIZED BUILDING CONSTRUCTIONS	
2.2	SUBSTRATE INFORMATION - GENERAL	
2.3	DRAINAGE	
2.4	VAPOR RETARDERS	
2.5	THERMAL BARRIERS / FIRE SHEETS	
2.6	SEPARATION SHEETS	
2.7	EXPANSION JOINTS	
2.8	AREA DIVIDERS	
2.9	WOOD NAILERS	13-14
Part	3 - THERMAL ROOF INSULATION AND SUBSTRATES	
3.0	ROOF INSULATION	
	APPROVED ROOF INSULATION	
3.2	INSULATION APPLICATION	16-17
Part	4 - ROOF MEMBRANE INSTALLATION	
4.0	ROOF MEMBRANE GENERAL INSTALLATION REQUIREMENTS	
4.1	MATERIAL HANDLING AND STORAGE	
4.2	QUALITY CONTROL DURING APPLICATION	
4.3	WEATHER PRECAUTIONS	
4.4	INSPECTION AND PREPARATION OF SURFACES	
4.5	RECOVER INSTALLATION	
4.6	REROOFING INSTALLATION	
4.7	SPECIAL TREATMENT OF COAL TAR ROOFS AND OTHER INCOMPATIBLE SUBSTRATES	-
4.8	GENERAL ROOF INSTALLATION	
4.9		
	WIND RESISTANCE AT PERIMETERS AND CORNERS	
	MECHANICALLY ATTACHED PERIMETERS AND CORNERS – PRESCRIPTIVE ENHANCEMENT	
	MECHANICALLY ATTACHED PERIMETERS AND CORNERS – ALTERNATE MINIMUM MEMBRANE	
	ADHERED PERIMETERS AND CORNERS	
	FLASHINGS FLASHING INSTALLATION	
	WALKWAYS	
	5 - INDUCTION WELD MEMBRANE ROOF INSTALLATION INDUCTION WELDED ROOF SYSTEMS	24.20
	6 - LOOSE-LAID BALLASTED AND OVERBURDEN ROOF INSTALLATION	
	6 - LOUSE-LAID BALLASTED AND OVERBURDEN ROOF INSTALLATION BALLASTED AND PAVER OVERBURDEN SYSTEMS	21 22
	LOOSE-LAID BALLASTED PERIMETERS AND CORNERS	
	SEPARATION SHEET FOR BALLASTED, PAVER AND OVERBURDEN ASSEMBLIES	
	BALLAST AND PAVER COMPONENTS	
0.3		აა



Part P7 – PHOTOVOLTAIC SOLAR ARRAY SYSTEM ROOF INSTALLATION

7.0 PHOTOVOLTAIC SOLAR ARRAY OVERBURDEN ROOF SYSTEMS	20
7.1 PHOTOVOLTAIC SOLAR ARRAY DESIGN CONSIDERATIONS	20
7.2 NON-PENETRATING PHOTOVOLTAIC AND BALLASTED SOLAR ARRAY METHODS	20
7.3 PENETRATING PHOTOVOLTAIC SOLAR ARRAY METHODS	20
7.4 PHOTOVOLTAIC SOLAR ARRAY LAMINATE METHODS	20
7.5 PHOTOVOLTAIC SOLAR ARRAY INSTALLATION OVER RECOVER SYSTEMS	20
7.6 PHOTOVOLTAIC SOLAR ARRAY INSTALLATION OVER EXISTING IB WARRANTIED ROOFS	20
7.7 CARE, MAINTENANCE & INSPECTIONS OF PHOTOVOLTAIC SOLAR ARRAY SYSTEMS	20
Part 8 – IB TABLES	
TABLE A.1 – SUBSTRATE REQUIREMENTS	
TABLE A.2 – INSULATION FASTENER SCHEDULE FOR ADHERED IB ROOF MEMBRANES	
TABLE A.3 – SUBSTRATE WITHDRAWAL RESISTANCE AND INSULATION FASTENER TABLE	
TABLE A.4 – IB INSULATION ADHESIVE SCHEDULE FOR ADHERED IB ROOF MEMBRANES	20
TABLE A.5 – INSULATION FASTENER SCHEDULE FOR INDUCTION WELDED IB ROOF MEMBRANES	20
TABLE A.6 – STANDARD IN-SEAM MEMBRANE FASTENING SCHEDULE FOR MECHANICALLY ATTACHED)
ROOF MEMBRANES	
TABLE A.7 – WIND RESISTANCE ENHANCEMENTS FOR FIELD, PERIMETERS, AND CORNERS - STANDA	
RECTANGULAR BUILDINGS WITH ROOF ANGLES 0° to ≤ 7°	
TABLE A.8 – HALF SHEET SECUREMENT TABLE FOR PERIMETERS AND CORNER WIDTHS	
TABLE A.9 – ALTERNATE SECUREMENT TABLE FOR PERIMETER AND CORNER ZONES	
TABLE A.10 – BASE AND WALL FLASHING ALLOWABLE HEIGHT	
TABLE A.11 – SECUREMENT TABLE FOR INDUCTION WELDED WALL FLASHING	
TABLE A.12 – FLASHING SECUREMENT	
TABLE A.13 – BALLAST AND PAVER SCHEDULE FOR BUILDINGS	
TABLE A.14 – IB ROOF SYSTEMS FASTSPEC ASSEMBLY SELECTION GUIDE	20



INTRODUCTION

IB PVC Roof Systems, A Better Choice - For more than 40 years, IB Roof Systems has been producing complete PVC Single-Ply membrane roofing solutions for low-sloped roofing applications – with easier installation, less time and labor costs, longest warranty, lowest maintenance, and most durable membrane, coupled with the best technical and product support team – IB Roof Systems is the right choice.

- Discover the Difference At IB Roof Systems we believe that there are three guiding principles that lead us every day
 while we strive to be the Industry's Best... those principles are Quality Products, Exceptional Service, and Technical
 Expertise.
- Quality Products When seeking a product to protect your building assets for the long term, IB Roof Systems is dedicated to providing you with a proven, sustainable, and quality product. Contractors and design professionals comfortably and confidently select IB products because of their performance, reliability, and longevity. That translates into architects, engineers, and building owners across the country who have been able to rest assured that their IB roofs are providing protection. To meet that high standard of performance, you need to have a strong and reliable base and that base begins with the formulation of the product. IB Roof Systems has stayed true to its *Industry's Best* name enduring time and performance with a proven formula and calendered film, non-extrusion lamination process since 1978 by utilizing only the highest quality polymers, plasticizers, fire retardants, and UV stabilizers available to ensure a highly flexible and durable PVC membrane. IB Roof Systems offers standard smooth PVC (IB PVC Single-Ply) and standard fleece back PVC (IB PVC Single-Ply FB) meeting ASTM D 4434 Type III or PVC with Elvaloy® (IB PVC Single-Ply ChemGuard[™]) meeting ASTM D 4434 Type III or PVC with Elvaloy® (IB PVC Single-Ply ChemGuard[™]) meeting ASTM D 4434 Type III or PVC with Elvaloy® (IB PVC Single-Ply ChemGuard[™]) meeting ASTM D 4434 Type III or PVC with Elvaloy® (IB PVC Single-Ply ChemGuard[™]) meeting ASTM D 4434 Type III or PVC with Elvaloy® (IB PVC Single-Ply ChemGuard[™]) meeting ASTM D 4434 Type III or PVC with Elvaloy® (IB PVC Single-Ply ChemGuard[™]) meeting ASTM D 4434 Type III or PVC with Elvaloy® (IB PVC Single-Ply ChemGuard[™]) meeting ASTM D 4434 Type III or PVC with Elvaloy® (IB PVC Single-Ply ChemGuard[™]) meeting ASTM D 4434 Type III or PVC with Elvaloy® (IB PVC Single-Ply ChemGuard[™]) meeting ASTM D 4434 Type III or PVC with Elvaloy® (IB PVC Single-Ply ChemGuard[™]) meeting ASTM D 4434 Type III or PVC with Elvaloy® (IB PVC Single-Ply ChemGuard[™]) meeting ASTM D 4434 Type
- Exceptional Service Customer service is a staple of IB Roof Systems. We are dedicated to providing an experience unlike any other for our customers. We work hard to ensure that we give the personalized attention needed so that every project ends with a positive experience. This experience begins with the initial phone call to one of our inside sales or technical services representatives. You will be speaking with a highly knowledgeable individual who will be able to provide the answers and resolutions to your roofing needs. Regardless of whether you have a highly specialized commercial project or a residential property that needs the best kind of protection and/or performance available, IB Roof Systems can accommodate your needs. Our team can customize flashings to fit most penetrations and roof conditions that you might deal with. We even work in conjunction with the sales representative/building owner to customize a special color for your roof.
- Technical Expertise IB Roof Systems strives to provide installing contractors, design professionals, and building owners
 with exceptional technical assistance. We are here to provide you with all the tools that you need to complete a successful
 project. We offer highly trained field technical representatives providing invaluable expertise to the contractor through jobstarts, interim, and final inspections to ensure quality installation.

Pioneering since 1978 - IB Roof Systems has been a pioneer in the low-slope roofing industry. We were the first to create preformed flashings and edge details and the first to introduce a Lifetime Residential Warranty. Our Total System No-Dollar-Limit Warranties range from 15-30 years depending on membrane thickness and system configuration. We have set the standard for other manufacturers to follow. Today we continue to lead the industry with new innovations and proven products. IB Roof Systems is the right choice.

This Manual is intended to provide IB Roof Systems' most recent statement of information available for the use and installation of IB Roof Systems products and roof assemblies. Therefore, this Manual supersedes and replaces all previous editions, publications, standard installation instructions and standard details pertaining to use and installation of IB Roof Systems products and roof assembles. This Manual is intended to be a comprehensive standard guide. Project-specific roof conditions or other design or construction requirements may exist that are not addressed by this Manual. Questions and request for additional information regarding specific applications may be directed to IB Technical Services. IB reserves the right to change, modify, update, add or remove requirements contained in this Manual as we deem necessary and without prior notice.

We appreciate your consideration of IB Roof Systems and look forward to putting our service, technical expertise, and premium products to work for you. Call and speak to a knowledgeable roofing industry professional today, toll-free 800-426-1626 or visit our website at www.ibroof.com