

Conklin Company Inc. TECHNICAL BULLETIN

B-12-88-17

Approved Substrates for Conklin Roofing Systems

Substrate Eligibility

The Conklin Company Roofing Systems Division has several different warranty options available to qualified contractors; these warranties also require proper system application for eligibility. In an effort to eliminate confusion about acceptable substrates for Conklin Roofing Systems, we have produced this technical bulletin. (See table #1)

Polyisocyanurate (Polyiso) Insulation Boards

Polyiso is a closed-cell, rigid foam board insulation consisting of a foam core sandwiched between two facers. The facers are composed of various organic and inorganic materials, usually paper and fiberglass. It is widely used in residential and commercial markets for both roof and side wall applications.

Conklin's Requirements for Polyiso

Atlas Polyiso products can be purchased through Conklin and these products include a paper faced Polyiso board (ACII), a fiberglass faced Polyiso board (ACIII) and both of these products are available in 20 psi or 25 psi compressive strength. Other acceptable insulation boards and recovery boards are offered through Atlas and most of these products can be used in all Conklin systems.

There are many manufacturers of Polyiso products available at the present time and they can differ in many ways. If a non-Atlas Polyiso board is being considered, the following criteria are to be used to determine if these products meet the same compressive strength as our Atlas products. The product should have either a paper or fiberglass face and a compressive strength of between 20 psi and 25 psi and a minimum thickness of 1.5". Please call the Conklin Roofing Department if considering a Polyiso recovery board.

APA Approved Exterior Plywood

The American Plywood Association seal of approval is required on all plywood to be used as a substrate for any Conklin roofing system. All plywood should be a minimum of 15/32" or thicker.



APA Approved Exterior OSB

The American Plywood Association seal of approval is required on all Oriented Strand Boards to be used as a substrate for any Conklin roofing system. All OSB boards should be a minimum of 7/16" or thicker.

TECO Approved Exterior Advantech Sheathing

The Timber Engineering Company seal of approval is required on all Advantech Exterior Sheathing to be used as a substrate for any Conklin roofing system. All Advantech Sheathing should be a minimum of 7/16" or thicker.

GP Dens Deck Roof Boards

The Georgia-Pacific label is required on all Dens Deck Roof Boards to be used as a substrate for any Conklin roofing system. All Dens Deck Roof Boards should be a minimum of 1/2" or thicker.

Warranty Requirements

The above substrates are used in conjunction with a minimum of 1.5" of insulation for all Conklin Roofing Systems.

In all cases for all acrylic systems a 1/4" gap should be left between all sheathing to allow for expansion and contraction and Kwik Kaulk should be applied to all gaps. By adding caulking to the gaps, the sheathing can move, yet the gap will remain sealed. This seal can also prevent water intrusion to the interior of the building in the event of unexpected rain before the system is completed. APA, TECO, Atlas, FM, ICC and NRCA guidelines for fastening any of these sheathing products should be followed at all times.

END OF SECTION

Conklin Company Inc. TECHNICAL BULLETIN

B-12-88-17

Approved Substrates for Conklin Roofing Systems

All approved substrates are used in conjunction with a minimum of 1.5" of insulation for all Conklin Roofing Systems.

Table #1

Conklin Approved and Non-Approved Substrates

Conklin Tested and Approved Substrates	20 - 25 psi Polyiso Paper Faced	20 - 25 psi Polyiso Fiberglass Faced	APA Exterior Rated Plywood 15/32" or thicker	APA Exterior Rated OSB 7/16" or thicker	TECO Exterior Rated Advantech 7/16" or thicker	GP Dens Deck Roof Sheathing
Conklin Roof System						
Metal Restoration	With Flute Fillers	With Flute Fillers	With Flute Fillers	With Flute Fillers	With Flute Fillers	With Flute Fillers
Fabric Reinforced	Primer Optional		Primer Optional	Primer Optional	Primer Optional	Primer Optional
SPF Spray Polyurethane Foam	Primer Optional	Yes	Primer Optional	Primer Optional	Primer Optional	Primer Optional
Single Ply Membrane	Yes	Slip Sheet Required	Slip Sheet Required	Slip Sheet Required	Slip Sheet Required	Yes
Affinity®	NO	NO	NO	NO	NO	Yes

Conklin Non Approved or Tested Substrates	Wood Fiberboard Coated, Uncoated, Any Density	XPS Extruded Polystyrene	EPS Expanded Polystyrene	Fan Fold Any Thickness	Perlite Insulation	Faced or Unfaced Fiberglass
Conklin Roof System						
Fabric Reinforced	NO	NO	NO	NO	NO	NO
SPF Spray Polyurethane Foam	NO	NO	NO	NO	NO	NO
Single Ply Membrane	NO	Recovery Board or Insulation Required	Recovery Board or Insulation Required	NO	Recovery Board or Insulation Required	Recovery Board or Insulation Required
Affinity®	NO	NO	NO	NO	NO	NO

