

## 6.0 SPECIFICATIONS

### 6.1 NEW ROOFS

#### DIBITEN POLY/4, POLY/5 SPECIFICATIONS

**Nailable Decks, No Insulation**

#### Specification 401

##### Deck Types:

Plywood, Wood Plank, Lightweight Insulating Concrete, Poured & Precast Gypsum.

##### Base Sheet:

For plywood or wood plank decks: U.L. approved fiber glass base sheet type G-2 (25 lbs. per 100 square feet or heavier).

For lightweight insulating concrete or poured & precast gypsum decks: U.L. approved fiber glass base sheet type G-2.

##### Dibiten Poly/4, Poly/5:

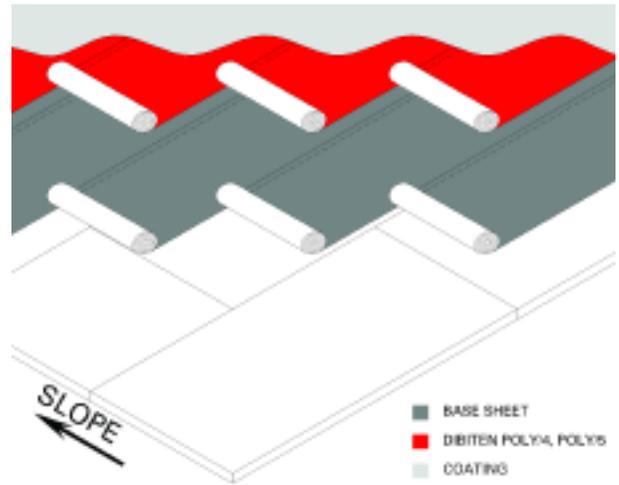
Smooth surfaced modified bitumen membrane reinforced with nonwoven polyester fabric. Method of application: heat weld applied only.

##### Coating:

Dibiten recommends coating all non-granulated finished membranes. This is a requirement if the roof membrane is to be guaranteed. Use a solvent, acrylic or latex based coating compatible with modified bitumen systems. Application rates vary by manufacturer but should never be installed less than 1 gallon per 100 square feet. Coatings will enhance the life of the roof membrane but need to be maintained. Periodic recoating may be necessary. Recoating is the responsibility of the building owner.

##### Base Sheet Application:

Where required, mechanically fasten a 19 3/4" (502 mm) wide piece of base into the structural deck. The remaining base plies are to be applied full width with (76 mm) side and 4" (102 mm) end laps over the preceding sheets. Fasten the laps at 9" (229 mm) centers, and down the longitudinal center of each felt ply. Place two rows of fasteners, with the rows spaced approximately 11" (279 mm) apart, and fasteners staggered on approximately 1/8" (457 mm) centers. Use fasteners appropriate to the insulation and deck.



##### Roofing Application:

1. Starting at the low point of the roof, heat weld a full piece of Dibiten Poly/4 or Poly/5 so that it is firmly and uniformly set. Subsequent sheets are to be applied in the same manner, with 4" (102 mm) side and 6" (152 mm) end laps over the preceding sheets. All laps must be rolled with a 3" (76 mm) rounded edge roller. A 1/8" to 3/8" (3 mm to 10 mm) bleedout of compound shall be visible at the edge of all seams. All laps must be checked for good adhesion.
2. Apply finish coating.

##### Materials required per 100 square feet of roof area:

Base Sheet: 108 square feet

Dibiten Poly/4: Approx. 112.63 sq. ft. (Approx. 1.06 rolls)

Coating: Per Manufacturer Requirements

# Specification & Application Manual

## Modified Bitumen Roofing Membranes

### DIBITEN POLY/4, POLY/5 SPECIFICATIONS

#### Available Decks, Insulation

#### Specification 402

##### Deck Types:

Plywood, Wood Plank, Lightweight Insulating Concrete, Poured & Precast Gypsum.

##### Base Sheet: (Not required when using DuraBoard)

U.L. approved type G-2 fiber glass base sheet (25 lbs. per 100 square feet or heavier) is required, mechanically fastened, over all insulations.

##### Dibiten Poly/4, Poly/5:

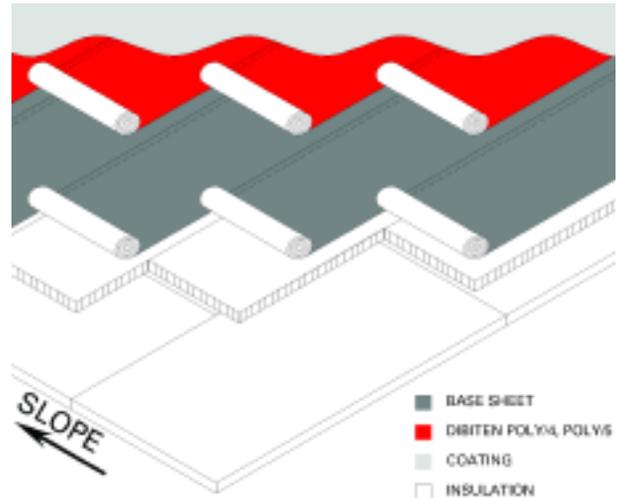
Smooth surfaced modified bitumen membrane reinforced with nonwoven polyester fabric. Method of application: heat weld applied only.

##### Coating:

Dibiten recommends coating all non-granulated finished membranes. This is a requirement if the roof membrane is to be guaranteed. Use a solvent, acrylic or latex based coating compatible with modified bitumen systems. Application rates vary by manufacturer but should never be installed less than 1 gallon per 100 square feet. Coatings will enhance the life of the roof membrane but need to be maintained. Periodic recoating may be necessary. Recoating is the responsibility of the building owner.

##### Insulation Application:

1. Install insulation units with long joints continuous. End joints should be staggered so that they are offset at least 12" from the end joints in adjacent rows. The units of insulation should fit snugly to adjoining units.
2. If Johns Manville DuraBoard insulation is utilized by itself or as the top layer of a multilayer insulation system, Dibiten smooth or granulated products may be heat welded directly to the DuraBoard
3. Insulation may be mechanically attached to metal, gypsum, cementitious wood fiber or structural concrete decks. Insulation may be adhered with an appropriate cold adhesive to structural concrete, cementitious wood fiber and pre-cast concrete decks.
4. Other roof insulation products can be used without DuraBoard if it is possible to mechanically attach a fiber glass base sheet through the insulation into the deck (metal, structural concrete, gypsum, cementitious wood fiber).



5. Where required, mechanically fasten a 19 3/4" 502 mm wide piece of base ply through the insulation. The remaining base plies are to be applied full width with 3" (76 mm) side and 4" (102 mm) end laps over the preceding sheets. Fasten the laps at 9" (229 mm) centers, and down the longitudinal center of each felt ply, place two rows of fasteners, with the rows spaced approximately 11" (279 mm) apart, and fasteners staggered on approximately 1/8" (457 mm) centers. Use fasteners appropriate to the insulation and deck.

##### Roofing Application:

1. Starting at the low point of the roof heat weld a full width piece of Dibiten Poly/4 or Poly/5 so that it is firmly and uniformly set. Subsequent sheets are to be applied in the same manner, with 4" (102 mm) side and 6" (152 mm) end laps over the preceding sheets. All laps must be rolled with a 3" (76 mm) rounded edge roller. A 1/8" to 3/8" (3 mm to 10 mm) bleedout of compound shall be visible at the edge of all seams. All laps must be checked for good adhesion.
2. Apply finish coating.

##### Materials required per 100 square feet of roof area:

Base Sheet: 108 square feet

Dibiten Poly/4: Approx. 112.63 sq. ft. (Approx. 1.06 rolls)

Coating: Per Manufacturer Requirements

## **DIBITEN POLY/4, POLY/5 SPECIFICATIONS**

**Available Decks, No Insulation, Two Ply Specification**

### **Specification 401-2**

#### **Deck Types:**

Plywood, Wood Plank, Lightweight Insulating Concrete, Poured & Precast Gypsum

#### **Base Sheet:**

For plywood or wood plank decks: U.L. approved fiber glass base sheet type G-2 (25 lbs. per 100 square feet or heavier).

#### **Dibiten Poly/4, Poly/5:**

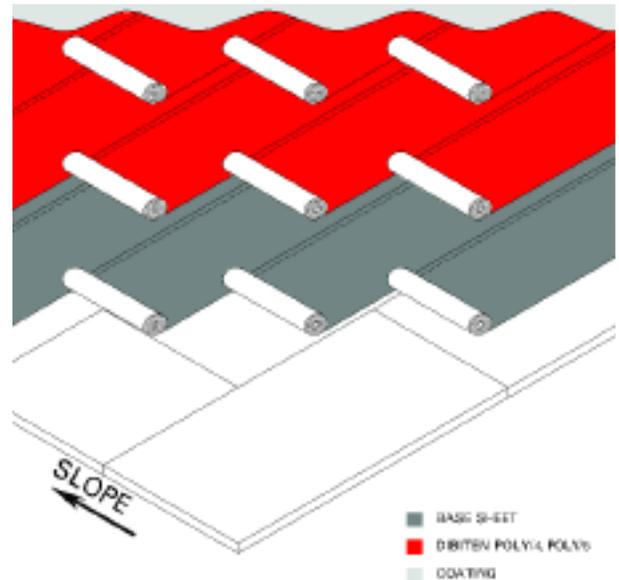
Smooth surfaced modified bitumen membrane reinforced with nonwoven polyester fabric. Method of application: Heat weld applied only.

#### **Coating:**

Dibiten recommends coating all non-granulated finished membranes. This is a requirement if the roof membrane is to be guaranteed. Use a solvent, acrylic or latex based coating compatible with modified bitumen systems. Application rates vary by manufacturer but should never be installed less than 1 gallon per 100 square feet. Coatings will enhance the life of the roof membrane but need to be maintained. Periodic recoating may be necessary. Recoating is the responsibility of the building owner.

#### **Roofing Application:**

1. Where required, mechanically fasten a 19 3/4" (502 mm) wide piece of base into the structural deck. The remaining base plies are to be applied full width with (76 mm) side and 4" (102 mm) end laps over the preceding sheets. Fasten the laps at 9" (229 mm) centers, and down the longitudinal center of each felt ply. Place two rows of fasteners, with the rows spaced approximately 11" (279 mm) apart, and fasteners staggered on approximately 1/8" (457 mm) centers. Use fasteners appropriate to the insulation and deck.
2. Starting at the low edge of the roof, heat weld a 19 3/4" (502 mm) wide piece of Dibiten Poly/4 or Poly/5. The remaining sheets are to be applied full width, with 4" (102 mm) side and 6" (152 mm) end laps over the preceding sheets.
3. Starting at the low point of the roof heat, weld a full width piece of Poly/4 or Poly/5 so that it is firmly and uniformly set. Subsequent sheets are to be applied in the same manner, with 4" (102 mm) side and 6" (152 mm) end laps over the preceding sheets. All



laps must be rolled with a 3" (76 mm) rounded edge roller. A 1/8" to 3/8" (3 mm to 10 mm) bleedout of compound shall be visible at the edge of all seams. All laps must be checked for good adhesions.

4. Apply finish coating.

#### **Materials required per 100 square feet of roof area:**

Base Sheet: 108 square feet

Dibiten Poly/4: Approx. 112.63 sq. ft. (Approx. 1.06 rolls)

Coating: Per Manufacturer Requirements

# Specification & Application Manual

## Modified Bitumen Roofing Membranes

### DIBITEN POLY/4, POLY/5 SPECIFICATIONS

#### Nailable Decks, Insulation, Two Ply Specification

#### Specification 402-2

##### Deck Types:

Plywood, Wood Plank, Lightweight Insulating Concrete, Poured & Precast Gypsum.

##### Insulation:

Only rigid roof insulation compatible with Dibiten modified bitumen membranes should be used (see requirements in Insulation Application below). Dibiten membrane products may be adhered directly to Johns Manville DuraBoard. All other insulations require a fiber glass base sheet to be installed on top of the insulation before Dibiten products are installed. Expanded polystyrene may not be used unless it is sandwiched between two layers of perlite board.

##### Base Sheet: (Except when using DuraBoard)

U.L. approved type G-2 fiber glass base sheet (25 lbs. per 100 square feet or heavier) is required, mechanically fastened, over all insulations.

##### Dibiten Poly/4, Poly/5:

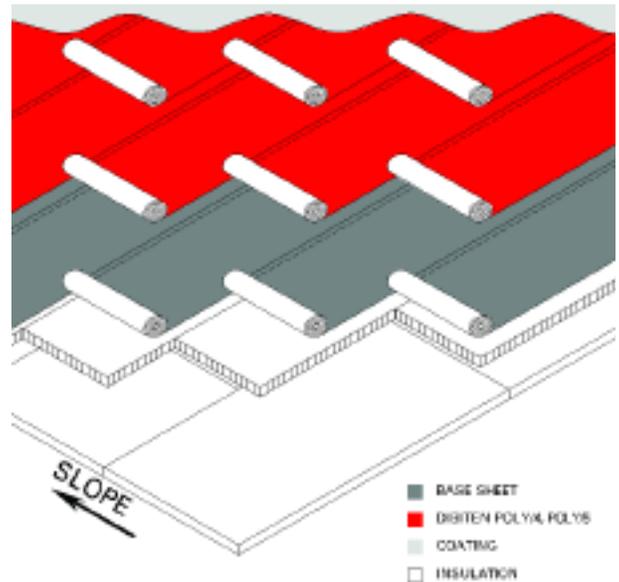
Smooth surfaced modified bitumen membrane reinforced with nonwoven polyester fabric. Method of application: heat weld applied only.

##### Coating:

Dibiten recommends coating all non-granulated finished membranes. This is a requirement if the roof membrane is to be guaranteed. Use a solvent, acrylic or latex based coating compatible with modified bitumen systems. Application rates vary by manufacturer but should never be installed less than 1 gallon per 100 square feet. Coatings will enhance the life of the roof membrane but need to be maintained. Periodic recoating may be necessary. Recoating is the responsibility of the building owner.

##### Insulation Application:

1. Install insulation units with long joints continuous. End joints should be staggered so that they are offset at least 12" from the end joints in adjacent rows. The units of insulation should fit snugly to adjoining units.
2. If Johns Manville DuraBoard insulation is utilized by itself or as the top layer of a multilayer insulation system, Dibiten smooth or granulated products may be heat welded directly to the DuraBoard.
3. Insulation may be mechanically attached to metal, gypsum, cementitious wood fiber or structural concrete decks. Insulation may be adhered with an appropriate cold adhesive to structural concrete, cementitious wood fiber and pre-cast concrete decks.



4. Other roof insulation products can be used without DuraBoard if it is possible to mechanically attach a fiber glass base sheet through the insulation into the deck (metal, structural concrete, gypsum, cementitious wood fiber).
5. Where required, mechanically fasten a 19 3/4" (502 mm) wide piece of base ply through the insulation. The remaining base plies are to be applied full width with 3" (76 mm) side and 4" (102 mm) end laps over the preceding sheets. Fasten the laps at 9" (229 mm) centers, and down the longitudinal center of each felt ply, place two rows of fasteners, with the rows spaced approximately 11" (279 mm) apart, and fasteners staggered on approximately 1/8" (457 mm) centers. Use fasteners appropriate to the insulation and deck.

##### Roofing Application:

1. Starting at the low edge of the roof, heat weld a 19 3/4" (502 mm) wide piece of Dibiten Poly/4 or Poly/5. The remaining sheets are to be applied full width, with 4" (102 mm) side and 6" (152 mm) end laps over the preceding sheets.
2. Starting at the low point of the roof heat, weld a full width piece of Poly/4 or Poly/5 so that it is firmly and uniformly set. Subsequent sheets are to be applied in the same manner, with 4" (102 mm) side and 6" (152 mm) end laps over the preceding sheets. All laps must be rolled with a 3" (76 mm) rounded edge roller. A 1/8" to 3/8" (3 mm to 10 mm) bleedout of compound shall be visible at the edge of all seams. All laps must be checked for good adhesions.
3. Apply finish coating.

## **DIBITEN POLY/4, POLY/5 SPECIFICATIONS**

**Non-nailable Decks, No Insulation**

### **Specification 403**

#### **Deck Types:**

Poured Concrete, Double T, Prestressed T, and Precast Concrete.

#### **Primer:**

Primer suitable for use over deck types listed above, applied in accordance with manufacturer instructions.

#### **Dibiten Poly/4, Poly/5:**

Smooth surfaced modified bitumen membrane reinforced with nonwoven polyester fabric. Method of application: heat weld applied only.

#### **Coating:**

Dibiten recommends coating all non-granulated finished membranes. This is a requirement if the roof membrane is to be guaranteed. Use a solvent, acrylic or latex based coating compatible with modified bitumen systems. Application rates vary by manufacturer but should never be installed less than 1 gallon per 100 square feet. Coatings will enhance the life of the roof membrane but need to be maintained. Periodic recoating may be necessary. Recoating is the responsibility of the building owner.

#### **Roofing Application:**

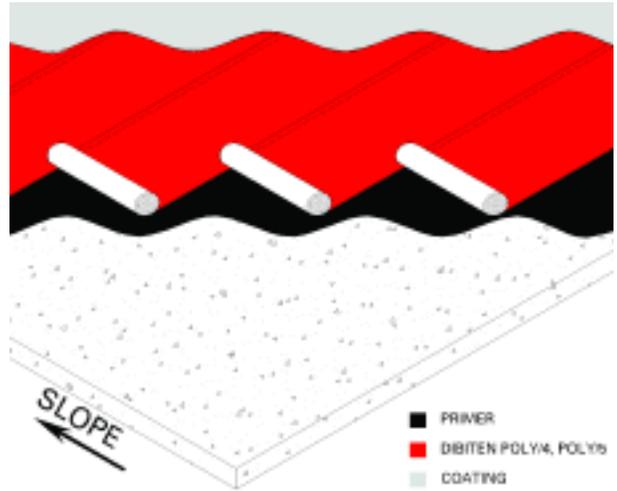
1. Starting at the low point of the roof, heat weld a full piece of Dibiten Poly/4 or Poly/5 so that it is firmly and uniformly set. Subsequent sheets are to be applied in the same manner, with 4" (102 mm) side and 6" (152 mm) end laps over the preceding sheets. All laps must be rolled with a 3" (76 mm) rounded edge roller. A 1/8" to 3/8" (3 mm to 10 mm) bleedout of compound shall be visible at the edge of all seams. All laps must be checked for good adhesion.
2. Apply finish coating.

#### **Materials required per 100 square feet of roof area:**

Base Sheet: 108 square feet

Dibiten Poly/4: Approx. 112.63 sq. ft. (Approx. 1.06 rolls)

Coating: Per Manufacturer Requirements



# Specification & Application Manual

## Modified Bitumen Roofing Membranes

### DIBITEN POLY/4, POLY/5 SPECIFICATIONS

#### Non-nailable Decks, Insulation

### Specification 404

#### Deck Types:

Poured Concrete, Metal, Double T, Prestressed T, and Precast Concrete.

#### Insulation:

Only rigid roof insulation compatible with Dibiten modified bitumen membranes should be used (See requirements in Insulation Application below). Dibiten membrane products may adhere directly to Johns Manville DuraBoard. All other insulations require a fiber glass base sheet to be installed on top of the insulation before Dibiten products are installed. Expanded polystyrene may not be used unless it is sandwiched between two layers of perlite board.

#### Base Sheet: (Except when using DuraBoard)

U.L. approved type G-2 fiber glass base sheet (25 lbs. per 100 square feet or heavier) is required over all insulations.

#### Dibiten Poly/4, Poly/5:

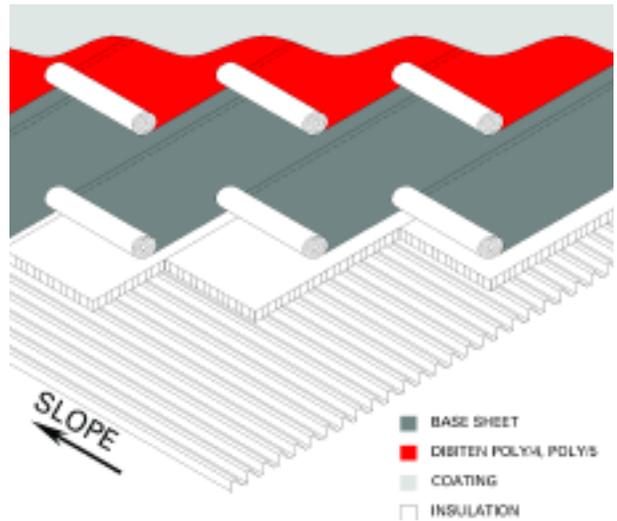
Smooth surfaced modified bitumen membrane reinforced with nonwoven polyester fabric. Method of application: heat weld applied only. Can be mopped.

#### Coating:

Dibiten recommends coating all non-granulated finished membranes. This is a requirement if the roof membrane is to be guaranteed. Use a solvent, acrylic or latex based coating compatible with modified bitumen systems. Application rates vary by manufacturer but should never be installed less than 1 gallon per 100 square feet. Coatings will enhance the life of the roof membrane but need to be maintained. Periodic recoating may be necessary. Recoating is the responsibility of the building owner.

#### Insulation/Base Sheet Application:

1. Install insulation units with long joints continuous. End joints should be staggered so that they are offset at least 12" from the end joints in adjacent rows. The units of insulation should fit snugly to adjoining units.
2. If Johns Manville DuraBoard insulation is utilized by itself or as the top layer of a multilayer insulation system, Dibiten smooth or granulated products may be heat welded directly to the DuraBoard
3. Insulation may be mechanically attached to metal, gypsum, cementitious wood fiber or structural concrete decks. Insulation may be adhered with an appropriate cold adhesive to structural concrete, cementitious wood fiber and pre-cast concrete decks.



4. Other roof insulation products can be used without DuraBoard if it is possible to mechanically attach a fiber glass base sheet through the insulation into the deck (metal, structural concrete, gypsum, cementitious wood fiber).
5. Where required, mechanically fasten a 19 3/4" (502 mm) wide piece of base ply through the insulation. The remaining base plies are to be applied full width with 3" (76 mm) side and 4" (102 mm) end laps over the preceding sheets. Fasten the laps at 9" (229 mm) centers, and down the longitudinal center of each felt ply, place two rows of fasteners, with the rows spaced approximately 11" (279 mm) apart, and fasteners staggered on approximately 1/8" (457 mm) centers. Use fasteners appropriate to the insulation and deck.

#### Roofing Application:

1. Starting at the low point of the roof, heat weld a full piece of Dibiten Poly/4 or Poly/5 so that it is firmly and uniformly set. Subsequent sheets are to be applied in the same manner, with 4" (102 mm) side and 6" (152 mm) end laps over the preceding sheets. All laps must be rolled with a 3" (76 mm) rounded edge roller. A 1/8" to 3/8" (3 mm to 10 mm) bleedout of compound shall be visible at the edge of all seams. All laps must be checked for good adhesion.
2. Apply finish coating.

### **DIBITEN POLY/4, POLY/5 SPECIFICATIONS**

#### **Non-nailable Decks, No Insulation, Two Ply Specification**

#### **Specification 403-2**

##### **Deck Types:**

Poured Concrete, Double T, Prestressed T, and Precast Concrete.

##### **Primer:**

Primer suitable for use over deck types listed above, applied in accordance with manufacturer instructions.

##### **Dibiten Poly/4, Poly/5:**

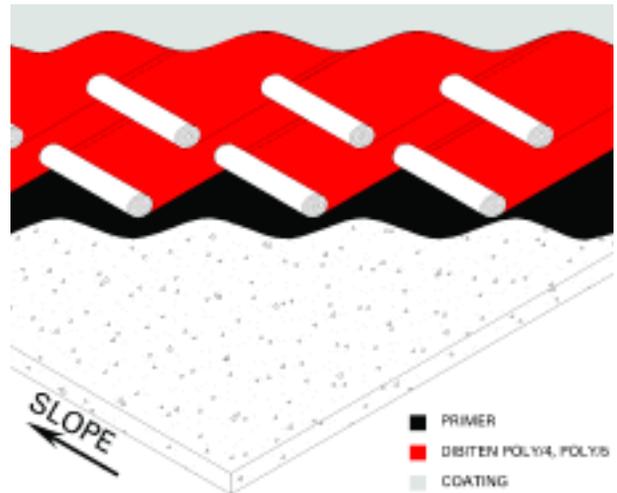
Smooth surfaced modified bitumen membrane reinforced with nonwoven polyester fabric. Method of application: heat weld applied only.

##### **Coating:**

Dibiten recommends coating all non-granulated finished membranes. This is a requirement if the roof membrane is to be guaranteed. Use a solvent, acrylic or latex based coating compatible with modified bitumen systems. Application rates vary by manufacturer but should never be installed less than 1 gallon per 100 square feet. Coatings will enhance the life of the roof membrane but need to be maintained. Periodic recoating may be necessary. Recoating is the responsibility of the building owner.

##### **Roofing Application:**

1. Starting at the low edge of the roof, heat weld a 19 3/4" (502 mm) wide piece of Dibiten Poly/4 or Poly/5. The remaining sheets are to be applied full width, with 4" (102 mm) side and 6" (152 mm) end laps over the preceding sheets.
2. Starting at the low point of the roof heat, weld a full width piece of Poly/4 or Poly/5 so that it is firmly and uniformly set. Subsequent sheets are to be applied in the same manner, with 4" (102 mm) side and 6" (152 mm) end laps over the preceding sheets. All laps must be rolled with a 3" (76 mm) rounded edge roller. A 1/8" to 3/8" (3 mm to 10 mm) bleedout of compound shall be visible at the edge of all seams. All laps must be checked for good adhesion.
3. Apply finish coating.



# Specification & Application Manual

## Modified Bitumen Roofing Membranes

### DIBITEN POLY/4, POLY/5 SPECIFICATIONS

#### Non-nailable Decks, Insulation, Two Ply Specification

#### Specification 404-2

##### Deck Types:

Poured Concrete, Metal, Double T, Prestressed T, and Precast Concrete.

##### Insulation:

Only rigid roof insulation compatible with Dibiten modified bitumen membranes should be used (See requirements in Insulation Application below). Dibiten membrane products may adhere directly to Johns Manville DuraBoard. All other insulations require a fiber glass base sheet to be installed on top of the insulation before Dibiten products are installed. Expanded polystyrene may not be used unless it is sandwiched between two layers of perlite board.

##### Base Sheet: (Except when using DuraBoard)

U.L. approved type G-2 fiber glass base sheet (25 lbs. per 100 square feet or heavier) is required over all insulations.

##### Dibiten Poly/4, Poly/5:

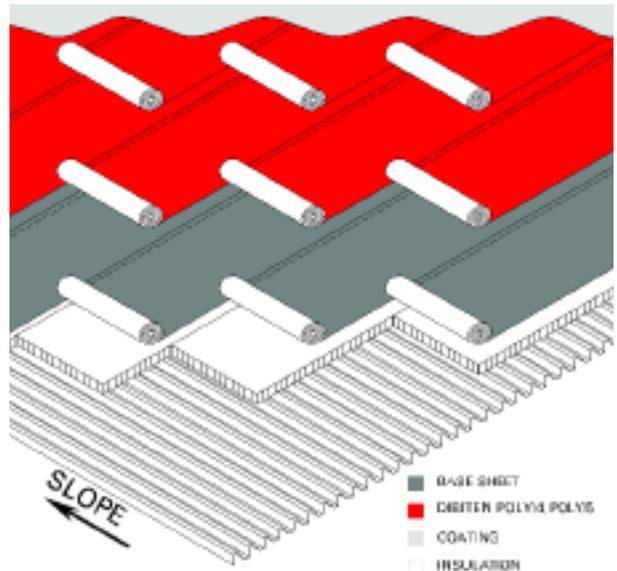
Smooth surfaced modified bitumen membrane reinforced with nonwoven polyester fabric. Method of application: heat weld applied only.

##### Coating:

Dibiten recommends coating all non-granulated finished membranes. This is a requirement if the roof membrane is to be guaranteed. Use a solvent, acrylic or latex based coating compatible with modified bitumen systems. Application rates vary by manufacturer but should never be installed less than 1 gallon per 100 square feet. Coatings will enhance the life of the roof membrane but need to be maintained. Periodic recoating may be necessary. Recoating is the responsibility of the building owner.

##### Insulation Application:

1. Install insulation units with long joints continuous. End joints should be staggered so that they are offset at least 12" from the end joints in adjacent rows. The units of insulation should fit snugly to adjoining units.
2. If Johns Manville DuraBoard insulation is utilized by itself or as the top layer of a multilayer insulation system, Dibiten smooth or granulated products may be heat welded directly to the DuraBoard
3. Insulation may be mechanically attached to metal, gypsum, cementitious wood fiber or structural concrete decks. Insulation may be adhered with an appropriate cold adhesive to structural concrete, cementitious wood fiber and pre-cast concrete decks.



4. Other roof insulation products can be used without DuraBoard if it is possible to mechanically attach a fiber glass base sheet through the insulation into the deck (metal, structural concrete, gypsum, cementitious wood fiber).
5. Where required, mechanically fasten a 19 3/4" (502 mm) wide piece of base ply through the insulation. The remaining base plies are to be applied full width with 3" (76 mm) side and 4" (102 mm) end laps over the preceding sheets. Fasten the laps at 9" (229 mm) centers, and down the longitudinal center of each felt ply. Place two rows of fasteners, with the rows spaced approximately 11" (279 mm) apart, and fasteners staggered on approximately 1/8" (457 mm) centers. Use fasteners appropriate to the insulation and deck.

##### Roofing Application:

1. Starting at the low edge of the roof, heat weld a 19 3/4" (502 mm) wide piece of Dibiten Poly/4 or Poly/5. The remaining sheets are to be applied full width, with 4" (102 mm) side and 6" (152 mm) end laps over the preceding sheets.
2. Starting at the low point of the roof heat, weld a full width piece of Poly/4 or Poly/5 so that it is firmly and uniformly set. Subsequent sheets are to be applied in the same manner, with 4" (102 mm) side and 6" (152 mm) end laps over the preceding sheets. All laps must be rolled with a 3" (76 mm) rounded edge roller. A 1/8" to 3/8" (3 mm to 10 mm) bleedout of compound shall be visible at the edge of all seams. All laps must be checked for good adhesions.
3. Apply finish coating.