

# Cold Applied Built-up Roofing Systems

Built-up roof systems are composed of six basic components that can be assembled in a number of combinations.

Insulation – Provides “R” value and stable substrate for roof system.

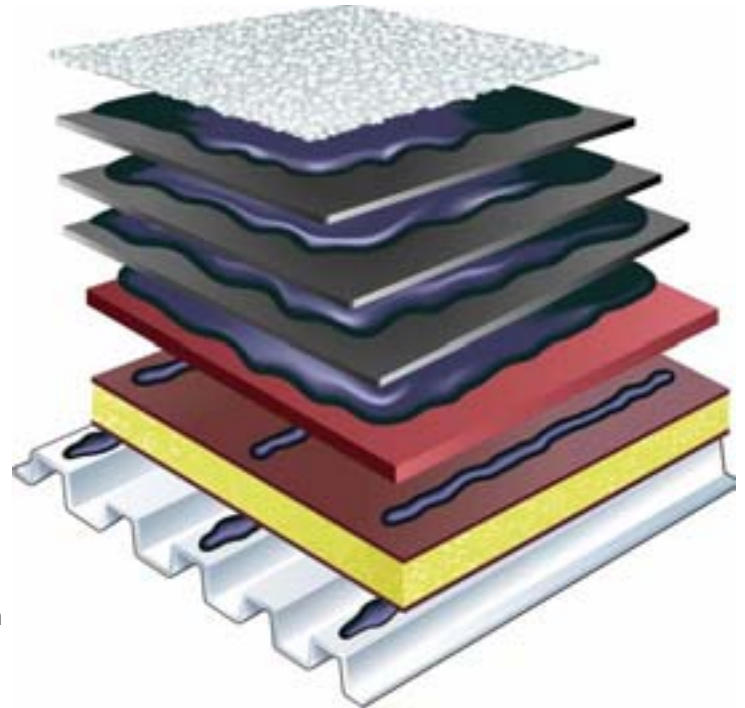
Base Plies – A ply that covers the entire substrate.

Ply sheets – Multiple layers of plies that make up the BUR.

Adhesive – Waterproofing that bonds the plies together.

Surfacing – Top layer that protects the BUR.

Flashings - Provide waterproofing around roof perimeter, equipment and projections.



**Features:**

- No kettle required
- Tar and asbestos-free
- No flame required
- Reduced odor
- High tensile strength
- Superior puncture resistance
- Trilaminate reinforcement
- Multi-ply system offers redundancy

**Benefits:**

- Reduces fumes and pollution
- Environmentally friendly
- Eliminates danger of fire and smoke pollution
- Better for use on occupied buildings
- Excellent thermal movement performance
- Improved resistance to abuse
- Longer life
- Successive levels provide extra protection and long-term performance

**Tensile Strength:**

What is tensile strength?

The resistance to lengthwise stress. The greatest amount of load in the direction of length that a given substance can bear without tearing.

Why is tensile strength important?

Superior tensile strength has a direct correlation to the long-term performance of the roof membrane. The greater the tensile strength, the more resistance the membrane has to splitting.

What is the difference between tensile strength and elongation?

Tensile strength is measured as a force (lbf), whereas elongation is measured as a percentage. The difference is tensile strength is measuring the force the sample can withstand before it breaks, whereas elongation is measuring how far the sample can stretch.

# Cold Applied Built-up Roofing Systems

## BURmastic 100

These systems feature ply sheets reinforced with a fiber-glass carrier. The ply sheets used are:

- BURmastic 28 lb. Glass\*
- BURmastic Glass Ply\*

A variety of high tensile base sheets can be utilized with BURmastic 100 roof systems.

## BURmastic 200

These systems feature ply sheets reinforced with a composite carrier. The ply sheets either can be modified or unmodified. The ply sheets used are:

- BURmastic Composite Ply\*
- Modified BURmastic Composite Ply\*

Higher tensile base sheets can be utilized with the BURmastic 200 roof systems.

## BURmastic 300

These systems are unique in that they feature ply sheets reinforced with a polyester carrier which provides the system with greater elongation. The ply sheet used is:

- BURmastic 300 Ply Sheet\*

To maintain a high elongation system, it is recommended to always use a polyester base sheet such as Tremco's BURmastic 300 Ply Sheet.

## BURmastic 400

These systems feature ply sheets reinforced with a high tensile composite carrier. The ply sheets either can be modified or unmodified. The ply sheets used are:

- Premium Composite Ply\*
- Modified Premium Composite Ply\*

Tremco's highest performing and strongest base sheet can be utilized with the BURmastic 400 roof systems.

## BURmastic 500

These systems feature ply sheets reinforced with the highest tensile carrier available on the market today. The ply sheets either can be modified or unmodified. The ply sheets used are:

- Supreme Composite Ply\*
- Modified Supreme Composite Ply\*

An optional base sheet of either Supreme Composite Ply or Modified Supreme Composite Ply can be used under the BURmastic 500 system.

## Cold Applied Components:

### COLD BASE PLIES AND PLY SHEETS

BURmastic Glass Ply  
 BURmastic Glass Ply 28  
 BURmastic 300 Ply Sheet  
 Composite Ply  
 Premium Composite Ply  
 Supreme Composite Ply  
 Modified Composite Ply  
 Modified Premium Composite Ply  
 Modified Supreme Composite Ply

### FLASHINGS

Hypalon Elastomeric Sheeting  
 TremLock Coping  
 TremLock Fascia  
 TRA Flashing Membrane

### FLASHING ADHESIVES

Brush Grade Mastic  
 Polyroof SF  
 Sheeting Bond

### COLD APPLIED ADHESIVES

BURmastic Adhesive  
 BURmastic LV Adhesive  
 BURmastic SF Adhesive  
 BURmastic Base Sheet Adhesive  
 Rubberized BURmastic Adhesive  
 Fas-n-Free Insulation Adhesive

### COATINGS

BURmastic FR  
 Double Duty Aluminum LV  
 High Build Reflective Coating  
 Polarcote FR  
 One Coat Aluminum  
 One Coat Aluminum FR

### SURFACING

BURmastic/Gravel  
 Tremlastic/Polarcote FR  
 Tremlastic/One Coat Aluminum  
 One Coat Aluminum FR  
 Tremlastic/Double Duty Aluminum  
 BURmastic FR/Granules  
 High Build Reflective Coating

SEE PRODUCT PAGES for a detailed description of each product listed above.

System performance and cost can be adjusted easily to fit your project requirements.

\*See product pages for more information

# Cold Applied Built-up Roofing Systems

## 3 Ply System – Base + 2

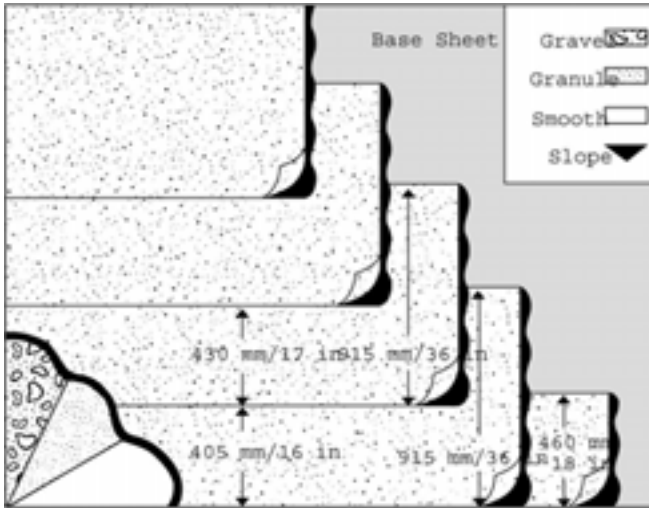
CONFIGURATION:

BURmastic 100 Base + 2 Ply

SUBSTRATE OPTIONS:

2 Course Insulation or  
1 Course Insulation

(Zones 1, 2 and 3)



Slope: Positive drainage up to 33.3% (4:12)

Material Requirements	Quantity	
	/m <sup>2</sup>	/100 ft <sup>2</sup>
<b>Base Sheets</b>		
See Product List: Cold Base Plies/Base Sheets	1 ply	1 ply
Base Sheet Adhesive		
BURmastic Base Sheet Adhesive	1.2 L	3 gal
<b>Ply Sheets</b>		
See Product List: Cold Base Plies/Base Sheets	3 plies	3 plies
Interply Adhesive		
BURmastic Adhesive	2.5 L	7.5 gal
BURmastic LV Adhesive		7.5 gal
BURmastic SF Adhesive		6 gal
BURmastic Base Sheet Adhesive		
Rubberized BURmastic Adhesive		
<b>Surfacing</b>		
<b>Gravel</b>		
Flood coat (BURmastic Adhesive)	2 L	6 gal
Gravel	19.5 kg	500 lb
<b>Granule</b>		
Flood coat (BURmastic FR)	1.4 L	3.5 gal
Granules	2.9 kg	60 lb
<b>Smooth</b>		
Surfacing emulsion	1.6 L	4 gal
Reflective coating		As specified for coating

\*Note: All coverage rates represent the required average application rate. Tolerances are ±20% for any point on the roof.

## 4 Ply System – Base + 3

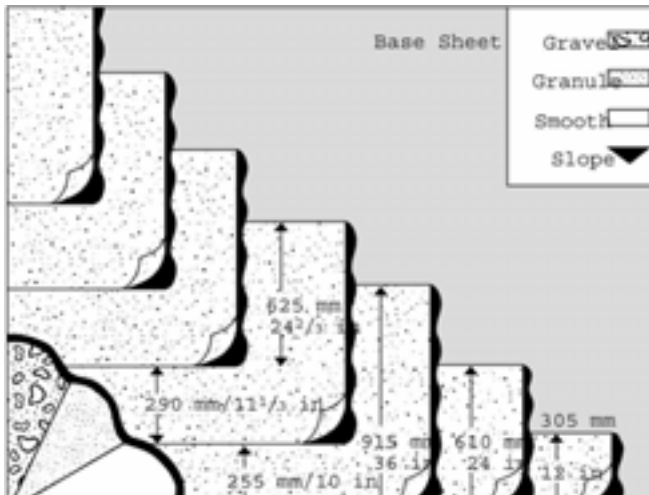
CONFIGURATION:

BURmastic 100 Base + 3 Ply

SUBSTRATE OPTIONS:

2 Course Insulation or  
1 Course Insulation

(Zones 1, 2 and 3)



Slope: Positive drainage up to 33.3% (4:12)

Material Requirements	Quantity	
	/m <sup>2</sup>	/100 ft <sup>2</sup>
<b>Base Sheets</b>		
See Product List: Cold Base Plies/Base Sheets	1 ply	1 ply
Base Sheet Adhesive		
BURmastic Base Sheet Adhesive	1.2 L	3 gal
<b>Ply Sheets</b>		
See Product List: Cold Base Plies/Base Sheets	2 plies	2 plies
Interply Adhesive		
BURmastic Adhesive	2.5 L	10 gal
BURmastic LV Adhesive		10 gal
BURmastic SF Adhesive		8 gal
BURmastic Base Sheet Adhesive		10 gal
Rubberized BURmastic Adhesive		10 gal
<b>Surfacing</b>		
<b>Gravel</b>		
Flood coat (BURmastic Adhesive)	2 L	5 gal
Gravel	19.5 kg	400 lb
<b>Granule</b>		
Flood coat (BURmastic FR)	1.4 L	3.5 gal
Granules	2.9 kg	60 lb
<b>Smooth</b>		
Surfacing emulsion	1.6 L	4 gal
Reflective coating		As specified for coating

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# Cold Applied Built-up Roofing Systems

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## 3 Ply Straight

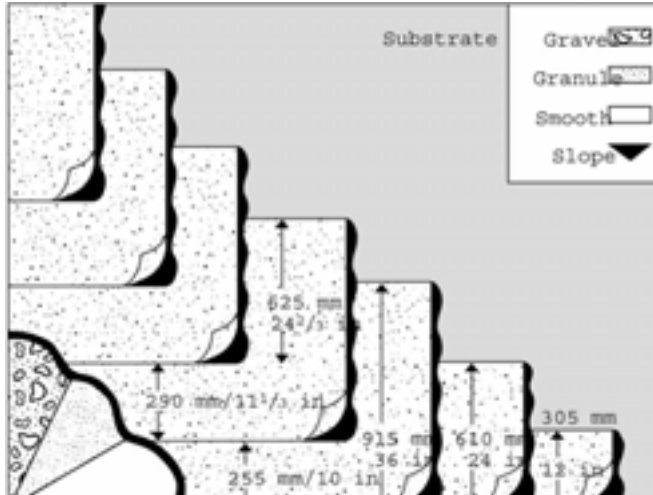
CONFIGURATION:

BURmastic 100 - 3 Ply

SUBSTRATE OPTIONS:

2 Course Insulation or  
1 Course Insulation

(Zones 1, 2 and 3)



Slope: Positive drainage up to 33.3% (4:12)

Material Requirements	Quantity	
	/m <sup>2</sup>	/100 ft <sup>2</sup>
<b>Ply Sheets</b>		
See Product List: Cold Base Plies/Base Sheets	2 plies	2 plies
<b>Interply Adhesive</b>		
BURmastic Adhesive	2.5 L	7.5 gal
BURmastic LV Adhesive		6 gal
BURmastic SF Adhesive		7.5 gal
BURmastic Base Sheet Adhesive		7.5 gal
Rubberized BURmastic Adhesive		
<b>Surfacing</b>		
<b>Gravel</b>		
Flood coat (BURmastic Adhesive)	2 L	5 gal
Gravel	19.5 kg	400 lb
<b>Granule</b>		
Flood coat (BURmastic FR)	1.4 L	3.5 gal
Granules	2.9 kg	60 lb
<b>Smooth</b>		
Surfacing emulsion	1.6 L	4 gal
Reflective coating		As specified for coating

\*Note: All coverage rates represent the required average application rate. Tolerances are ±20% for any point on the roof.

## 4 Ply Straight

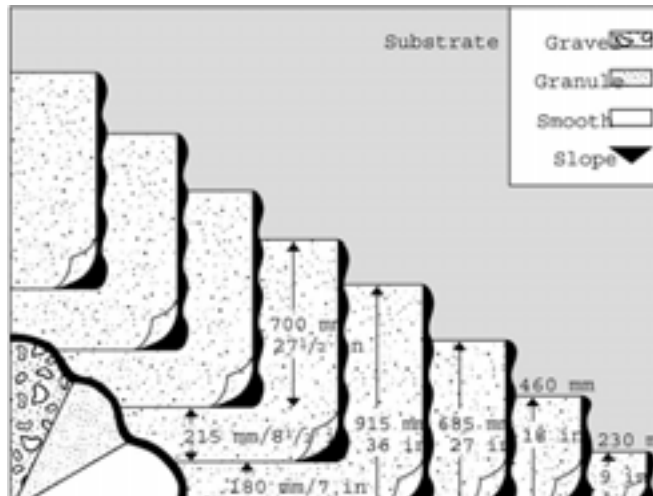
CONFIGURATION:

BURmastic 100 - 4 Ply

SUBSTRATE OPTIONS:

2 Course Insulation or  
1 Course Insulation

(Zones 1, 2 and 3)



Slope: Positive drainage up to 33.3% (4:12)

Material Requirements	Quantity	
	/m <sup>2</sup>	/100 ft <sup>2</sup>
<b>Base Sheets</b>		
See Product List: Cold Base Plies/Base Sheets	1 ply	1 ply
<b>Base Sheet Adhesive</b>		
BURmastic Base Sheet Adhesive	1.2 L	3 gal
<b>Ply Sheets</b>		
See Product List: Cold Base Plies/Base Sheets	4 plies	4 plies
<b>Interply Adhesive</b>		
BURmastic Adhesive	2.5 L	10 gal
BURmastic LV Adhesive		8 gal
BURmastic SF Adhesive		
BURmastic Base Sheet Adhesive		
Rubberized BURmastic Adhesive		
<b>Surfacing</b>		
<b>Gravel</b>		
Flood coat (BURmastic Adhesive)	2 L	6 gal
Gravel	19.5 kg	500 lb
<b>Granule</b>		
Flood coat (BURmastic FR)	1.4 L	3.5 gal
Granules	2.9 kg	60 lb
<b>Smooth</b>		
Surfacing emulsion	1.6 L	4 gal
Reflective coating		As specified for coating

\*Note: All coverage rates represent the required average application rate. Tolerances are ±20% for any point on the roof.