



# IREX<sup>®</sup> 40

## Commercial Product Data Sheet

Irex 40 is a modified bitumen, heavy duty base sheet or base ply. Irex 40 consists of a lightweight random fibrous glass mat impregnated and coated with a specialty formulated styrene-butadiene-styrene (SBS) modified bitumen.

Contact Siplast for information on approved product uses.

**USES:**  
**BASE PLY**  
**BASE SHEET**

### PRODUCT INFORMATION

|                            |   |
|----------------------------|---|
| Standards                  | ASTM D6163 Type I, Grade S;<br>CSA A123.23-15 Type A, Grade 3 |
| Roll Length                | Min: 34 ft<br>(10.36 m)                                       |
| Roll Width                 | Avg: 3.28 ft<br>(1.00 m)                                      |
| Coverage                   | 1.0 Square<br>(9.3 m <sup>2</sup> )                           |
| Coverage Weight Per Square | Min: 85 lb<br>(4.1 kg/m <sup>2</sup> )                        |
| Laying Lines               | 3 in (76 mm) & 4 in (102 mm)<br>Line Color: Blue              |
| Top Surfacing              | Silica Parting Agent  |
| Back Surfacing             | Silica Parting Agent  |
| Product Options            | RoofTag   |

#### Application

Refer to the applicable Siplast Technical Guide for detailed application information and slope limitations. Irex 40 is lapped 3 inches (76 mm) side and end.



#### Storage and Handling

All Siplast roll roofing products should be stored on end on a clean, flat surface. Rolls should not be dropped on ends or edges or stored in a leaning position. Deformation resulting from these actions will make proper installation difficult. All roofing products should be stored in a dry place out of direct exposure to the elements and should not be double stacked. Material should be handled so that it remains dry prior to and during installation.

See product packaging and the Safety Data Sheet for specific information on the safe handling of this product.

#### Packaging

Pallet: 41 in x 48 in (104 cm x 122 cm) wooden pallet  
 Rolls Per Pallet: 25  
 Pallets Per Truckload: 18  
 Minimum Roll Weight: 85 lb (38.6 kg)  
 Max Pallet Weight (Typical): 2338 lb (1060 kg)

#### Listings, Approvals, & Certifications



Classified by UL in accordance with ANSI/UL 790. Refer to UL Product iQ for specific assemblies.  
 FM Approved - Refer to RoofNav.com for specific assemblies.  
 Meets or Exceeds CSA A123.23.

Current copies of all Siplast Commercial Product Data Sheets & Safety Data Sheets are posted on our website at [www.siplast.com](http://www.siplast.com)  
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**U.S. TEST STANDARDS**

| Property (as Manufactured)            |                           | Values / Units          | Test Method           |
|---------------------------------------|---------------------------|-------------------------|-----------------------|
| Thickness (minimum)                   |                           | 106 mils (2.7 mm)       | ASTM D5147 Section 6  |
| Thickness (average)                   |                           | 110 mils (2.8 mm)       | ASTM D5147 Section 6  |
| *Peak Load                            | @ 73.4°F (23°C) (average) | 45 lbf/inch (7.9 kN/m)  | ASTM D5147 Section 7  |
|                                       | @ 0°F (-18°C) (average)   | 80 lbf/inch (14.1 kN/m) |                       |
| *Elongation @ Peak Load               | @ 73.4°F (23°C) (average) | 3%                      | ASTM D5147 Section 7  |
|                                       | @ 0°F (-18°C) (average)   | 2%                      |                       |
| *Tear Strength (average)              |                           | 60 lbf (0.27 kN)        | ASTM D5147 Section 8  |
| Water Absorption (maximum)            |                           | 1%                      | ASTM D5147 Section 10 |
| Dimensional Stability (maximum)       |                           | 0.5%                    | ASTM D5147 Section 11 |
| Low Temperature Flexibility (maximum) |                           | -0.4°F (-18°C)          | ASTM D5147 Section 12 |
| Compound Stability (minimum)          |                           | 215°F (102°C)           | ASTM D5147 Section 16 |
| Coating Thickness – Back Surface      |                           | ≥ 40 mils (1 mm)        | ASTM D5147 Section 17 |

**CANADIAN TEST STANDARDS**

| Property (as Manufactured)   |                            | Units                                       | CSA A123.23 Requirement | Test Method | Test Performance |
|--|----------------------------|---|-------------------------|-------------|------------------|
| Thickness (minimum)  |                            | mm (mils)                                   | 2.0 (80)                | ASTM D5147  | 2.7 (106)        |
| Selvage Thickness (minimum)  |                            | mm (mils)                                   | 2.0 (80)                | ASTM D5147  | 2.5 (98)         |
| Mass Per Unit Area (minimum)   |                            | kg/m <sup>2</sup> (lb/100 ft <sup>2</sup> ) | 2.2 (45)                | ASTM D5147  | 4.1 (84)         |
| Back Surface Coating Thickness (minimum)   |                            | mm (mils)                                   | 1.0 (40)                | ASTM D5147  | 1.0 (40)         |
| *Strain Energy (Before After Heat Conditioning)                                      | @ 23 ± 2°C (73.4 ± 3.6°F)  | kN/m (lbf/in)                               | See Tested Value        | CSA A123.23 | >0.5 (>2.9)      |
|  | @ -18 ± 2°C (-0.4 ± 3.6°F) |   |                         |             | >0.3 (>1.7)      |
| *Peak Load (Before and After Heat Conditioning)                                      | @ 23 ± 2°C (73.4 ± 3.6°F)  | kN/m (lbf/in)                               | 5.3 (30)                | ASTM D5147  | >7.8 (>44)       |
|  | @ -18 ± 2°C (-0.4 ± 3.6°F) |   | 12.3 (70)               |             | >14.2 (>81)      |
| *Elongation @ Peak Load (Before and After Heat Conditioning)                         | @ 23 ± 2°C (73.4 ± 3.6°F)  | %   | 2                       | ASTM D5147  | >3               |
|  | @ -18 ± 2°C (-0.4 ± 3.6°F) |   | 1                       |             | >2               |
| *Ultimate Elongation (Before and After Heat Conditioning), @ 23 ± 2°C (73.4 ± 3.6°F) |                            | %   | 3                       | ASTM D5147  | >50              |
| Dimensional Stability (maximum)  |                            | %   | 0.5                     | ASTM D5147  | 0.5              |
| Low Temperature Flexibility (maximum)  |                            | °C (°F)                                     | -18 (-0.4)              | ASTM D5147  | -18 (-0.4)       |
| Low Temperature Weathered Flexibility (maximum)                                      |                            | °C (°F)                                     | N/A                     | ASTM D5147  | N/A              |
| Compound Stability (minimum)   |                            | °C (°F)                                     | 91 (195)                | ASTM D5147  | 91 (195)         |
| Resistance to Puncture   |                            | N/A   | N/A                     | CSA A123.23 | N/A              |
| Granule Loss   |                            | g (oz)                                      | N/A                     | ASTM D5147  | N/A              |

Data is based upon typical product performance and is subject to normal manufacturing and packaging tolerance and variation.

\* The value reported is the lower of either MD or XD.