

TB-96 Bobrick High Pressured Laminate (HPL) Toilet Partition LEED Information

HPL MANUFACTURERS:

ARBORITE

LEED v3/2009

Material Resources (MR)

- **Recycled Content (MR Credit 4):** Materials with recycled content such that the sum of post-consumer recycled content plus ½ of the pre-consumer content constitutes at least 10% or 20%, based on cost, of the total value of the materials in the project. 10% earns 1 point, 20% earns 2 points.

	Post-consumer	Pre-consumer
<i>General Purpose (A5)</i>	9.9%	1.1%
<i>Postforming (A4)</i>	13.1%	1.5%

- o Most non-standard colors are Horizontal Grade Postforming, which is available upon request. Please note that Horizontal Grade Postforming is not recommended for toilet partitions with steel core stiles (1030, 1040, and 1540 with the .63 option). For toilet partitions with steel core stiles, General Purpose Laminate is recommended.
- **Regional Materials (MR Credit 5):** Building materials or product that have been extracted, harvested or recovered, as well as manufactured, within 500 mile radius of the project site for a minimum of 10% or 20%, based on cost, of the total materials value. 10% earns 1 point, 20% earns 2 points.
 - o *Arborite laminate is manufactured in Lasalle, Quebec and Fletcher, North Carolina. Raw material is extracted from Ste-Thérèse, Québec /Canada*
 - o *Bobrick Manufacturing Locations: Clifton Park, NY 12065; North Hollywood, CA 91605; Jackson, TN 38301*
- **Rapidly Renewable Materials (MR Credit 6):** Rapidly renewable building materials and products for 2.5% of the total value of all building materials and products used in the project, based on cost. Rapidly renewable building materials and products are made from agricultural products that are typically harvested within a 10 year cycle. 2.5% earns 1 point.
 - o *Contains approximately 6.6% Eucalyptus Wood*
- **Certified Wood (MR Credit 7):** Use a minimum of 50%, based on cost, of wood-based materials and products that are certified in accordance with the Forest Stewardship Council's principles and criteria, for wood building components. FSC Certification earns 1 point.
 - o *FSC Certified: SCS-COC-003203 issued to Arborite*

Indoor Environmental Quality (EQ)

- **Low-Emitting Materials – Adhesives and Sealants (EQ Credit 4.1):** Adhesives and sealants used on the interior of the building must comply with South Coast Air Quality Management

District Rule # 1168. Volatile organic compound (VOC) limits earns 1 point.

- o *GreenGuard Gold Certificate# 1901-420 & 1902-420, product certified for low chemical emissions: 220 g/L (0.22mg/m³)*

- **Low-Emitting Materials – Composite Wood and Agrifiber Products (EQ Credit 4.4):** Composite wood and agrifiber products used on the interior of the building must contain no added urea-formaldehyde resins.

- o *No added urea-formaldehyde CAS# 50-00-0*

LEED V4 has had a substantial change in how the credits are to be obtained. The information we provide is still required to calculate the credits. The table on page 5 shows you how the ARBORITE information can be applied in LEED V4.

FORMICA

LEED v3/2009

Material Resources (MR)

- **Recycled Content (MR Credit 4):** Materials with recycled content such that the sum of post-consumer recycled content plus ½ of the pre-consumer content constitutes at least 10% or 20%, based on cost, of the total value of the materials in the project. 10% earns 1 point, 20% earns 2 points.

	Post-consumer	Pre-consumer
<i>General Purpose (Grade 10)</i>	2%	4.3%
<i>Postforming (Grade 12)</i>	4.7%	6.4%

- o *Formica: All Bobrick Standard RapidResponse (Formica) colors are General Purpose Laminate. Most non-standard colors are Horizontal Grade Postforming, which is available upon request. Please note that Horizontal Grade Postforming is not recommended for toilet partitions with steel core stiles (1030, 1040, and 1540 with the .63 option). For toilet partitions with steel core stiles, General Purpose Laminate is recommended.*
- **Regional Materials (MR Credit 5):** Building materials or product that have been extracted, harvested or recovered, as well as manufactured, within 500 mile radius of the project site for a minimum of 10% or 20%, based on cost, of the total materials value. 10% earns 1 point, 20% earns 2 points.
 - o *Formica laminate is manufactured in Everdale, Ohio and St. Jean Sur Richeliy, Quebec. Extraction location is not available as paper products are made with wood pulp from trees located around the globe.*
 - o *Bobrick Manufacturing Locations: Clifton Park, NY 12065; North Hollywood, CA 91605; Jackson, TN 38301*
- **Rapidly Renewable Materials (MR Credit 6):** Rapidly renewable building materials and products for 2.5% of the total value of all building materials and products used in the project, based on cost. Rapidly renewable building materials and products are made from agricultural products that are typically harvested within a 10 year cycle. 2.5% earns 1 point.
 - o *Contains a weighted average of 6.5% rapidly renewable eucalyptus wood.*
- **Certified Wood (MR Credit 7):** Use a minimum of 50%, based on cost, of wood-based materials and products that are certified in accordance with the Forest Stewardship Council's principles and criteria, for wood building components. FSC Certification earns 1 point.

- o *FSC Certified: SCS-COC-003270 issued to Formica*

Indoor Environmental Quality (EQ)

- **Low-Emitting Materials – Adhesives and Sealants (EQ Credit 4.1):** Adhesives and sealants used on the interior of the building must comply with South Coast Air Quality Management District Rule # 1168. Volatile organic compound (VOC) limits earns 1 point.
 - o *GreenGuard Gold Certificate# 1769-420, product certified for low chemical emissions: 220 g/L (0.22mg/m³)*
- **Low-Emitting Materials – Composite Wood and Agrifiber Products (EQ Credit 4.4):** Composite wood and agrifiber products used on the interior of the building must contain no added urea-formaldehyde resins.
 - o *No added urea-formaldehyde CAS# 50-00-0*

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WILSONART

LEED v3/2009

Material Resources (MR)

- **Recycled Content (MR Credit 4):** Materials with recycled content such that the sum of post-consumer recycled content plus ½ of the pre-consumer content constitutes at least 10% or 20%, based on cost, of the total value of the materials in the project. 10% earns 1 point, 20% earns 2 points.

	Post-consumer	Pre-consumer
<i>General Purpose (Type 107)</i>	17%	0%
<i>Postforming (Type 350)</i>	22%	0%

- o *Wilsonart:* With the exception of Satin Stainless, which is Horizontal Grade Postforming, all Bobrick Standard RapidResponse (Wilsonart) colors are General Purpose Laminate. Most non-standard colors are Horizontal Grade Postforming, which is available upon request. Please note that Horizontal Grade Postforming is not recommended for toilet partitions with steel core stiles (1030, 1040, and 1540 with the .63 option). For toilet partitions with steel core stiles, General Purpose Laminate is recommended.
- **Regional Materials (MR Credit 5):** Building materials or product that have been extracted, harvested or recovered, as well as manufactured, within 500 mile radius of the project site for a minimum of 10% or 20%, based on cost, of the total materials value. 10% earns 1 point, 20% earns 2 points.
 - o *Wilsonart Laminate is manufactured in Temple, Texas and Fletcher, North Carolina. Raw material is sourced from worldwide sources and in their recipes, they can have multiple suppliers for a single component.*
 - o *Bobrick Manufacturing Locations: Clifton Park, NY 12065; North Hollywood, CA 91605; Jackson, TN 38301*
- **Rapidly Renewable Materials (MR Credit 6):** Rapidly renewable building materials and products for 2.5% of the total value of all building materials and products used in the project, based on cost. Rapidly renewable building materials and products are made from agricultural products that are typically harvested within a 10 year cycle. 2.5% earns 1 point.

- o Contains approximately 10% wood from rapidly renewable resources; primarily eucalyptus.
- **Certified Wood (MR Credit 7):** Use a minimum of 50%, based on cost, of wood-based materials and products that are certified in accordance with the Forest Stewardship Council's principles and criteria, for wood building components. FSC Certification earns 1 point.
 - o *FSC Certified: SCS-COC-002415 issued to Wilsonart*

Indoor Environmental Quality (EQ)

- **Low-Emitting Materials – Adhesives and Sealants (EQ Credit 4.1):** Adhesives and sealants used on the interior of the building must comply with South Coast Air Quality Management District Rule # 1168. Volatile organic compound (VOC) limits earns 1 point.
 - o *GreenGuard Gold Certificate# 1111-420, product certified for low chemical emissions: 220 g/L (0.22mg/m³)*
- **Low-Emitting Materials – Composite Wood and Agrifiber Products (EQ Credit 4.4):** Composite wood and agrifiber products used on the interior of the building must contain no added urea-formaldehyde resins.
 - o *No added urea-formaldehyde CAS# 50-00-0*

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PARTICLEBOARD

LEED v3/2009

Material Resources (MR)

- **Recycled Content (MR Credit 4):** Materials with recycled content such that the sum of post-consumer recycled content plus ½ of the pre-consumer content constitutes at least 10% or 20%, based on cost, of the total value of the materials in the project. 10% earns 1 point, 20% earns 2 points.
 - o *Post-consumer: 0.83%*
 - o *Pre-consumer: 99.17%*
- **Regional Materials (MR Credit 5):** Building materials or product that have been extracted, harvested or recovered, as well as manufactured, within 500 mile radius of the project site for a minimum of 10% or 20%, based on cost, of the total materials value. 10% earns 1 point, 20% earns 2 points.
 - o *Particleboard manufactured and extracted in Albany, Oregon 97321*
- **Certified Wood (MR Credit 7):** Use a minimum of 50%, based on cost, of wood-based materials and products that are certified in accordance with the Forest Stewardship Council's principles and criteria, for wood building components. FSC Certification earns 1 point.
 - o *FSC Certified: RA-COC-000444 issued to Flakeboard*

Indoor Environmental Quality (EQ)

- **Low-Emitting Materials – Composite Wood and Agrifiber Products (EQ Credit 4.4):** Composite wood and agrifiber products used on the interior of the building must contain no added urea-formaldehyde resins.
 - o *Complies with California Air Resource Board (CARB) 93120 Formaldehyde emission limits.*

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ADHESIVE WILSONART

Indoor Environmental Quality (EQ)

- **Low-Emitting Materials – Adhesives and Sealants (EQ Credit 4.1):** Adhesives and sealants used on the interior of the building must comply with South Coast Air Quality Management District Rule # 1168. Volatile organic compound (VOC) limits earns 1 point.

o o VOC: < 20 g/L (0.02mg/ m³)

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Material and Resources (MR)

LEED v3/2009	LEED V4
MR Credit 4 Recycled Content	Environmental Product Declaration – Option: Multiple Attribute Optimization
MR Credit 5 Regional Materials	
MR Credit 6 Rapidly Renewable Materials	Sourcing of Raw Materials – Option 2: Leadership Extraction Practices
MR Credit 7 Certified Wood	

Indoor Environmental Quality (EQ)

LEED v3/2009	LEED V4
EQ Credit 4.1 Low-Emitting Materials- Adhesives and Sealants	Low-Emitting Interiors
EQ Credit 4.4 Low-Emitting Materials- Composite Wood and Agrifiber Products	

The 500-mile radius requirement was decreased to 100-miles. The definition of regional has been expanded to include the distribution and purchase location and now includes all points of manufacture.