



LAMBOO® PRODUCTS

SUSTAINABLE MATERIALS DATA SHEET

PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: LAMBOO® - ENGINEERED HIGH PERFORMANCE BAMBOO (LVB)

PRODUCT USE: SUSTAINABLE BUILDING MATERIALS, OEM APPLICATIONS

MANUFACTURED BY: LAMBOO, INC.
 510 EAST ADAMS
 SPRINGFIELD, IL 62701, USA
 (866) 966-2999 OFFICE
 (217) 670-0664 FAX

LEED POINTS: SUSTAINABLE PRODUCTS AND PRACTICES

THE LEED RATING SYSTEMS DO NOT CERTIFY CREDITS FOR PRODUCTS THEMSELVES. POINTS ARE AWARDED FOR ACHIEVING MILESTONES FOR THE SPECIFIC PROJECT. PRODUCTS CAN HOWEVER "CONTRIBUTE TO LEED CREDITS." THERE ARE TWO DIFFERENT CREDIT TYPES: 1) STANDARD CREDITS, AND 2) INNOVATION CREDITS. LAMBOO PRODUCTS CAN CONTRIBUTE TO BOTH LEED CREDIT TYPES.

TABLE 1: POSSIBLE LEED CREDIT FOR LAMBOO MATERIAL

CREDIT DESCRIPTION	POTENTIAL LEED CREDIT ELIGIBILITY
EA CREDIT 1: OPTIMIZE ENERGY PERFORMANCE	1—19
MR CREDIT 6: RAPIDLY RENEWABLE MATERIALS	1
MR CREDIT 7: CERTIFIED WOOD	1
EQ CREDIT 4.1: LOW-EMITTING ADHESIVES AND SEALANTS	1
EQ CREDIT 4.4: LOW-EMITTING MATERIALS	1
ID CREDIT 1: INNOVATION IN DESIGN (ENVIRONMENTAL PREFERABLE MATERIAL)	1—5
ID CREDIT 2: INNOVATION IN DESIGN (LIFE CYCLE ASSESSMENT / ENVIRONMENTAL IMPACT)	1—5
TOTAL POSSIBLE ADDITIONAL POINTS	28

*NOTE: A MAXIMUM OF 5 CREDITS ARE AVAILABLE IN THE ID (INNOVATION IN DESIGN) CREDIT CATEGORY.



DOCUMENTS PREPARED BY
 LAMBOO INC.
 510 E. ADAMS
 SPRINGFIELD, IL 62701
 866.966.2999

LAMBOO INC.
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STANDARD CREDITS:

EA CREDIT 1: **OPTIMIZE ENERGY PERFORMANCE** - THIS CREDIT IS AIMED AT ACHIEVING INCREASING LEVELS OF ENERGY PERFORMANCE ABOVE THE BASELINE IN THE PREREQUISITE STANDARD TO REDUCE ENVIRONMENTAL AND ECONOMIC IMPACTS ASSOCIATED WITH EXCESSIVE ENERGY USE. LAMBOO MATERIALS OFFER MORE IDEAL THERMAL RESISTANCE THAN OTHER COMMON MATERIALS USED IN CURTAIN WALL, WINDOW, AND DOOR SYSTEMS AND CAN AID IN MAKING THESE SYSTEMS MORE INSULATED, THUS CUTTING ENERGY COSTS. THESE ATTRIBUTES ALSO MAKE LAMBOO IDEAL FOR STRUCTURAL APPLICATIONS WHERE THERMAL BRIDGING MAY BE AN ISSUE.

MR CREDIT 6: **RAPIDLY RENEWABLE MATERIALS** - THIS CREDIT IS ACHIEVED BY USING 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 PLANTS THAT ARE TYPICALLY HARVESTED WITHIN A 10-YEAR OR SHORTER CYCLE. LAMBOO ALLOWS A 6-8 YEAR HARVEST CYCLE TO KEEP HIGH SUSTAINABILITY AND PROMOTE THIS LEED CREDIT. ADDITIONALLY, LAMBOO IS CERTIFIED AS A USDA BIO-PREFERRED PRODUCT BASED ON ITS ULTRA RENEWABILITY FEATURES.

MR CREDIT 7: **CERTIFIED WOODS** - A POINT IS EARNED IF AT LEAST 50% OF THE WOOD-BASED MATERIALS ARE FOREST STEWARDSHIP COUNCIL (FSC) CERTIFIED. LAMBOO CAN SOURCE FSC CERTIFIED MATERIALS UPON REQUEST. LAMBOO IS ALSO AFFILIATED OTHER CERTIFICATION BODIES.

EQ CREDIT 4.1: **LOW-EMITTING ADHESIVES AND SEALANTS** - CREDIT INTENT IS TO REDUCE THE QUANTITY OF INDOOR AIR CONTAMINANTS THAT ARE ODOROUS, IRRITATING AND/OR HARMFUL TO THE COMFORT AND WELL-BEING OF INSTALLERS AND OCCUPANTS. LAMBOO PRODUCTS USE LOW V.O.C. ADHESIVES AND FINISHES AND DO NOT PRODUCE OFF-GASSING WHEN SANDING, PROFILING, AND HANDLING MATERIALS.

EQ CREDIT 4.4: **LOW-EMITTING MATERIALS** - EQ CREDIT 4.4 CALLS FOR USE OF COMPOSITE WOOD AND AGRI-FIBER PRODUCTS ON THE INTERIOR OF THE BUILDING THAT MUST CONTAIN NO ADDED UREA-FORMALDEHYDE RESINS. LAMINATING ADHESIVES USED TO FABRICATE ON-SITE AND SHOP-APPLIED COMPOSITE WOOD AND AGRI-FIBER ASSEMBLIES MUST ALSO CONTAIN NO ADDED UREA-FORMALDEHYDE RESINS. LAMBOO MANUFACTURING USES LOW V.O.C., FORMALDEHYDE FREE ADHESIVES WHICH FIT UNDER THIS CATEGORY OF COMPOSITE WOOD AND AGRI-FIBER PRODUCTS WITH NO ADDED UREA FORMALDEHYDE RESINS THERE FOR THESE FEATURES PROMOTE THIS LEED CREDIT.

INNOVATION CREDITS:

ID CREDIT 1:
ENVIRONMENTAL PERFORMANCE **INNOVATION IN DESIGN** - THIS CREDIT CAN BE ACHIEVED THROUGH SIGNIFICANT AND MEASURABLE ENVIRONMENTAL PERFORMANCE. USING LAMBOO LVB MATERIAL WILL HELP REDUCE ENVIRONMENTAL IMPACTS THROUGH ITS RAPID GROWTH, EROSION PREVENTATIVE ROOT SYSTEM, AND NATURAL BIOLOGICAL MAKE UP (NO HERBICIDES AND PESTICIDES USED IN GROWTH). THESE FEATURES PROMOTE THIS LEED CREDIT.

ID CREDIT 2:
LIFE CYCLE ASSESSMENT **INNOVATION IN DESIGN** - THIS CREDIT CAN BE ACHIEVED BY EXPLORING LIFE CYCLE ASSESSMENT OF MATERIALS. THE THREE COMPONENTS WE FEEL SUPPORT THIS CREDIT ARE CARBON SEQUESTRATION NUMBERS, PERCENT EMBODIED ENERGY USED IN PRODUCTION, AND THERMAL CONDUCTIVITY PROPERTIES. LAMBOO HAS HIGHLY MEASURABLE ENVIRONMENTAL PERFORMANCE DUE TO 35% MORE SEQUESTRATION OF CARBON IN THE GROWING CYCLE COMPARED TO TIMBER. LAMBOO USES 300% LESS EMBODIED ENERGY IN MANUFACTURING IN COMPARISON TO ALUMINUM. LAMBOO PRODUCTS MINIMIZE THERMAL CONDUCTIVITY MORE SO THAN ALUMINUM, STEEL, FIBERGLASS, AND PVC. THESE FEATURES PROMOTE THIS LEED CREDIT.

ALL LEED RATING POINT REFERENCES ARE SUGGESTED WITH USE OF LAMBOO MATERIAL IN LEED QUALIFIED PROJECTS. LEED APPLICANTS SHOULD USE THEIR OWN OBJECTIVE DETERMINATIONS OF PRODUCT ATTRIBUTES IN THE LEED CERTIFICATION PROCESS. REFER TO THE WORLD GREEN BUILDING COUNCIL (WWW.WORLDBGBC.ORG) FOR ALL LEED CREDITS THAT ARE APPLICABLE.



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