

West Vancouver's progressive and strong policy stance on environmental protection and sustainability will be respected by FNDA Architecture. Our goal will be to provide an energy efficient and responsible home through the use of resource and environmentally friendly construction practices and products.

Building Cladding:

LEED aspects of Alucobond - Alucobond Paint Process

The North American facility is among the top national performers in terms of emissions control and has been chosen as a benchmark in setting more stringent EPA standards. The painting process used in producing Alucobond and Alucobond Plus is called coil coating. During this process, 99.9% of all fugitive volatile organic compounds (VOCs) are captured. Excess paint is recovered and used to cover the non-visible side of Alucobond, so no excess paint is burned as waste. All solvents used to clean the machinery are collected and used again.

Alucobond Waste Minimization

All excess polyethylene core material is recycled back into the manufacturing process and all scrap aluminum is sent back to aluminum processing plants for recycling. In addition, 3A Composites saves landfill space by donating like materials to a variety of charitable organizations and school systems.

Alucobond Recoverability

Alucobond is fully recoverable. The polyethylene in its core is one of the most energy-efficient materials to recycle and can be reheated and reused indefinitely. The aluminum that comprises its skins is also one of the most recycled resources in the world. In fact, the aluminum used to manufacture Alucobond already contains, on average, nearly 85% recycled material - an attribute that can help earn points towards LEED® certification.

Alucobond may help contribute up to two points within the LEED Materials and Resources section.

MR Credit 4.1 awards one point if the sum of the post-consumer recycled content, plus one-half of the post-industrial content, constitutes at least 10% of the total value of the materials in the project.

MR Credit 4.2 awards an additional point if the total value is at least 20%. The percentage by weight of recycled aluminum content for 4mm Alucobond is 26%.

BC Granite:
Using locally available and indigenous materials has several advantages for sustainability:

- 1- reduction of energy costs related to transportation
- 2 - reduction of material costs due to reduced transportation costs
- 3 - support of local businesses and resource bases

stone material is aesthetically pleasing eliminating the need for constant refinishing and sealing. Stone provides excellent thermal mass with it's properties for passive solar heating

Roofing:

SBS membrane roofing system- ie Soprema
company statement regarding their principles of sustainable roof design:

Energy conservation, durability, consumption of raw materials and waste reduction should guide the design and specification of the roof assembly. Energy conservation not only relates to insulation, but to continuity of the air/vapour barrier at the roof and wall junction, durability relates to design, material selection and good initial installation for longevity and thus waste reduction.

* note - due to the nature of the design the upper level deck areas will be accessible. The actual amount of roof area is approximately 35% of the floor plate and utilizing high emissivity roofing will reduce almost all and any heat islands.

Glazing:

Utilize Energy Star compliant thermally broken windows with low E glass

Insulation:

HFC free formulated 100% water blown recycled material foam insulation to meet and/or exceed BCBC insulation R value requirements.

