





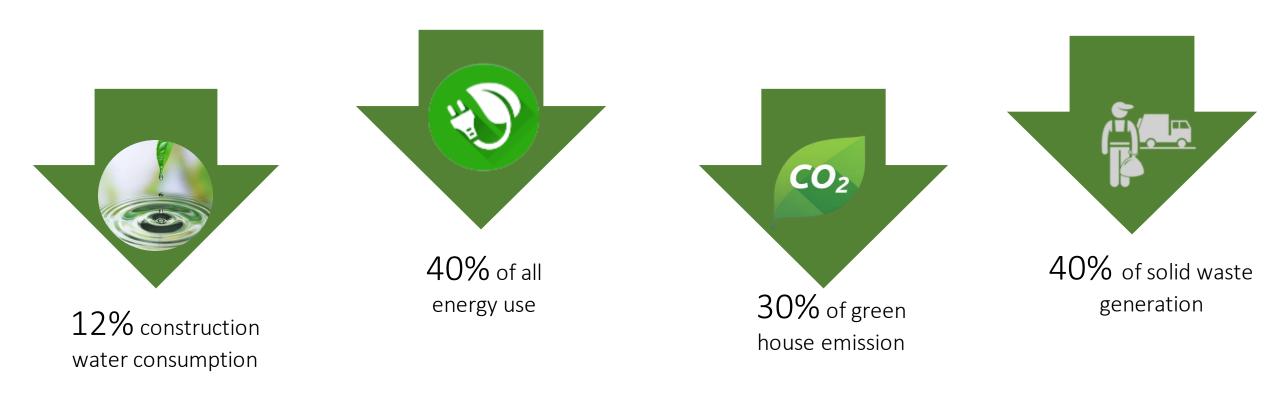
SUSTAINABLE DEVELOPMENT REQUIRE HUMAN INGENUITY. PEOPLE ARE THE MOST IMPORTANT RESOURCE

Dan Shechtman



Everest contributes to the construction of **sustainable habitats** through its Wall, Ceiling & Cladding systems.

Reduces impact on the environment





Everest emphasizes and contributes towards **Eco-friendly construction methods**, through its Eco-innovative products & solutions, that reduces operational use of resources (particularly energy & water) in buildings & infrastructures.





Everest Wall & Cladding solutions substantially improves the building envelope performance; Prevent top- soil erosion



Everest solutions are built through Dry construction technique that saves precious water.



Contribute towards reduction in environmental impact during construction & building life cycle.



World Health Organization (WHO) recognizes **air pollution as the world's biggest environmental and health threat**.

> Each year, **approximately 3.7 million people die** premature deaths globally due to outdoor air pollution.

Construction is responsible for up to 50% of climate change & it **contributes to 23% of air pollution**



Everest pre-fabricated solutions installed with dry construction techniques eliminates air pollution at construction sites



Everest building solution reduces construction waste.





Everest facilitates designing & installation of its solutions with SPEED & SAFETY.



Everest solutions are installed at 4X speed as compared to traditional brick block masonry



Pre & post project site



Everest trains its installers to ensure that the solutions offered are installed in best conditions with speed & safety

R&D

for

Through

PEHCHAN– A formal introduction of Everest products & solutions

KAUSHAL – hands on training at dedicated training centres & on-site training.



Everest solutions takes care of **building occupant's comfort & health**



- Acoustic comfort: Better sound insulation. Everest wall solutions provide Rw 60dB sound insulation as compared to Rw 40dB for traditional walls



- Moisture & weather resistant



- Thermal comfort: Everest wall are 4X more thermal insulating than traditional walls. Everest external wall & insulated cladding system reduces building energy demand significantly.



- Insect & rodent resistant



- Visual comfort: Aesthetic wall, ceiling & cladding solutions



- Flexibility: Easy to install as per required heights & thicknesses; and to be removed during lifetime.



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Everest solutions takes care of **building occupant's safety**

- Fire Safety: Everest offers its building solutions with high fire resistance ratings & excellent product fire properties. They are noncombustible, not easily ignitable, restricts propagation of flame, low smoke emission & no fire droplets.

- Seismic Safety: Light weight Everest wall solutions are ideally suited for earthquake prone areas & are designed for seismic loading conditions

- Stability: Solution can be specified even in conditions exposed to mechanical stress in the building; Fibre Cement board are also suitable for flooring element



- Impact Resistance: All solutions are aligned to SEVERE DUTY impact resistance, which are similar to traditional systems.



EVEREST EXTERNAL CLADDING SYSTEM

EVEREST ARTESTONE & ARTEWOOD – REPLACING NATURAL STONE & WOOD

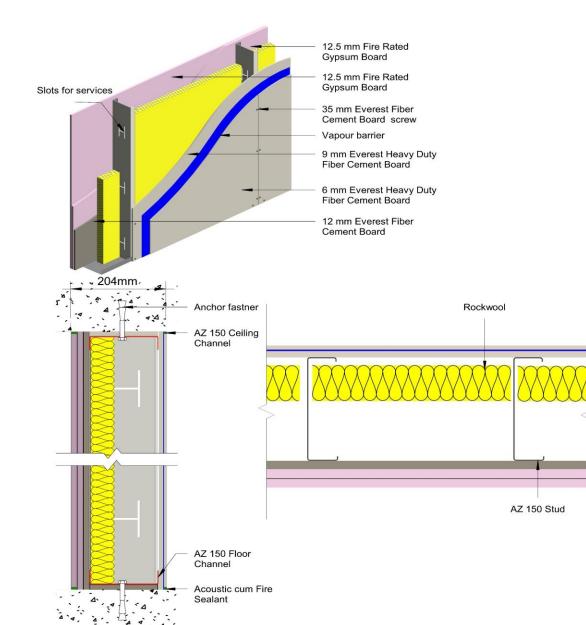
Replacing natural wood on the exterior & interior of the building with Everest ARTEWOOD

W Hotel by Marriott, Goa

everest







EVEREST EXTERNAL WALL SYSTEM

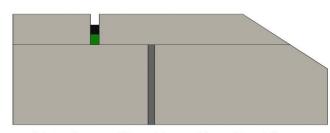
IMPROVES BUILDING ENVELOPE PERFORMANCE; CONTRIBUTES TOWARDS REDUCTION IN BUILDING ENERGY DEMAND



Joints of Internal 9mm Everest Heavy Duty Fiber Cement Board sealed with backer rod & sealant

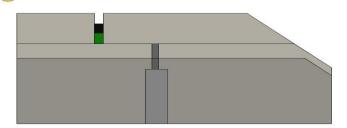


Taping of joints on exposed board

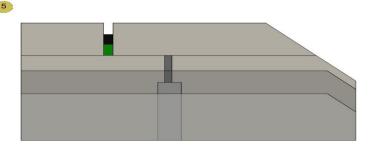


Joints of exposed 6mm Everest Heavy Duty Fiber Cement Board sealed with primer modified morter

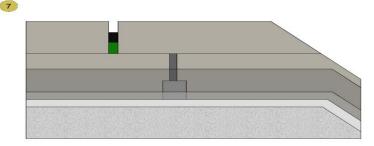
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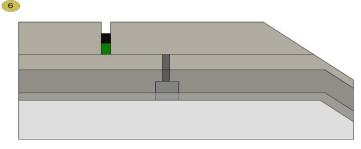
1st Coat of diluted (30% water) waterproofing solvent



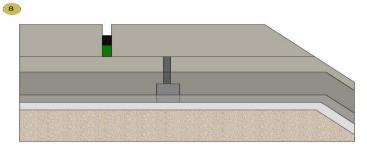
2nd Coat of undiluted waterproofing solvent



Acrylic modified texture finishing render coat



3rd Coat of undiluted waterproofing solvent



Surface finished with external grade primer and paint

OPTION - 1 Water proofing Finishing system

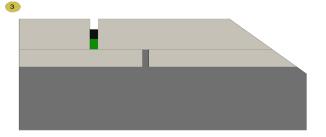
everes

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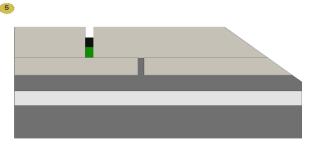
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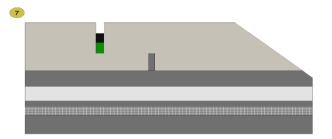
Joints of Internal 9mm Everest Heavy Duty Fiber Cement Board sealed with backer rod & sealant



Application of base coat modified morter



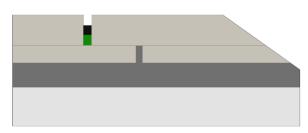
Application of second coat modified morter base coat over EPS



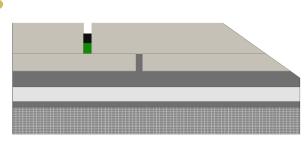
Application of top coat modified morter over fiber mesh



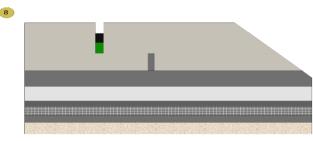
Joints of exposed 6mm Everest Heavy Duty Fiber Cement Board sealed with primer modified morter



Pasting of EPS over modified morter



Embedding of fiber tape over base coat



Acrylic modified texture finishing render final coat

OPTION - 2 External Insulated Finishing system

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SHOT ON REDMI Y3 AI DUAL CAMERA

SHOT ON REDMI Y3

AI DUAL CAMERA

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| U VALUE CALCULATOR (WALL) – Ir | dia International Convention Centre, Dwarka |
|--------------------------------|---|
| | |

| ELEMENT | Material | Material Width(d) Cumulative k μ μ.d | | μ.d | R | T[| | °C] | Dew point | | |
|---|----------------------------|--------------------------------------|---|--------|-------|---|---|-----------|-------------------------|------------|------|
| | | [m] | Width (d) | [W/mk] | | [m] | [m²K/W] | Delta T | Inner Bdry | Outer Bdry | [°C] |
| Inside Air | | | | | | | 0.1300 | 0.7646 | 25.0 | | 13.9 |
| Vapor Barrier/Paint etc | None | 0 | 0 | 0 | | 0 | 0.0000 | 0.0000 | 25.8 | 25.8 | 13.9 |
| Inner render/plaster | Fiber Cement Board | 0.024 | 0.024 | 0.14 | 50 | 1.2 | 0.1714 | 1.0082 | 25.8 | 26.8 | 24.0 |
| Inner insulation | Rockwool / Glasswool | 0.05 | 0.074 | 0.04 | 1 | 0.05 | 1.2500 | 7.3515 | 26.8 | 34.1 | 24.4 |
| Additional Insulation | Unventilated Air Gap | 0.144 | 0.218 | 5.67 | 0 | 0 | 0.1800 | 1.0586 | 34.1 | 35.2 | 24.4 |
| wall structure | Fiber Cement Board | 0.012 | 0.23 | 0.14 | 50 | 0.6 | 0.0857 | 0.5041 | 34.1 | 34.6 | 27.9 |
| Adhesive Layer | Polymeric Cement plaster | 0.003 | 0.233 | 0.72 | 150 | 0.45 | 0.0042 | 0.0245 | 35.2 | 35.2 | 27.1 |
| Exterior insulation | EPS 20Kgs/m3 Cut Sheet | 0.052 | 0.285 | 0.034 | 60 | 3.12 | 1.5294 | 8.9948 | 34.6 | 43.6 | 40.1 |
| Exterior render | Polymeric Cement plaster | 0.005 | 0.29 | 0.72 | 35 | 0.175 | 0.0069 | 0.0408 | 43.6 | 43.7 | 40.6 |
| Vapor Barrier/Paint etc | None | 0 | 0.29 | 0 | | 0 | 0.0000 | 0.0000 | 43.7 | 43.7 | 40.6 |
| Outside Air | | | 0.29 | | | | 0.0430 | 0.2529 | 43.7 | 43.9 | 41.9 |
| | | | | | | 5.595 | 3.4007 | 20.0000 | | | |
| | | | | | U-V | /ALUE | 0.294 | POWER COS | ST (Rs./KWHR) | 7.50 | |
| Temperature inside | 25 | Humidity Inside | | | 3.40 | HEAT VALUE REMOVED BY AC (MJ/KWHR) 3 | | | | | |
| Temperature outside | 45 | Humidity Outside | | 90.00% | | | 19.32 | EFFICIENC | Y OF AC IN ING HEAT | 80% | |
| ANNUAL SAVINGS -ENERGY COSTS/sq m (WITH INSULATION) | | ₹1,331 | ANNUAL -AC ENERGY COSTS/sq m (ENERGY LOST THROUGH WALLS WITH OUT INSULATION BY | | | ₹1,530 | DEGREE DAYS (AVG. TEMP ₹1,530 DIFF. X NO. OF DAYS) | | 3000 | | |
| 86.4 X ΔU X | (ΔT X DAYS) X ENERGY COSTS | | | CONDUC | TION) | | | | DIFF. (TEMP EMP IN)) | 20 | |
| 1000X E | EFFICIENCY X HEAT VALUE | | | | | | 87.02% | DAYS/YEA | R OF AC RUN | 150 | |

| | Area | <u>U Va</u> | alue (W/m ⁰K) |
|-------------------|------|-------------|---------------|
| Thermal Bridging | | 14.32% | 0.51 |
| Wall | | 85.68% | 0.29 |
| Effective U Value | | | 0.32 |

EFFECTIVE U-Value: 0.32 W/m2K

Annual Savings – Energy Cost / sqm = Rs. 1331 / Sqm

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U VALUE CALCULATOR (WALL) – Defence office complex, Delhi

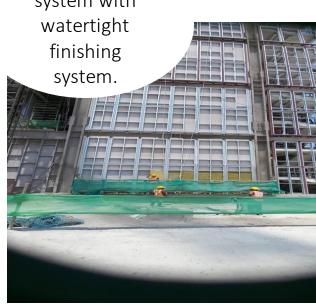
| ELEMENT | Material | Width(d) | Cumulative | k | μ | μ.d | R | | т[°с |] | Dew poir |
|---|--------------------------------------|------------------|--|--------|-------|----------|---------|---|-------------------------|------------|----------|
| | | [m] | Width (d) | [W/mk] | | [m] | [m²K/W] | Delta T | Inner Bdry | Outer Bdry | [°C] |
| side Air | | | | | | | 0.1300 | 0.8349 | 25.0 | | 13.9 |
| apor Barrier/Paint etc | None | 0 | 0 | 0 | | 0 | 0.0000 | 0.0000 | 25.8 | 25.8 | 13.9 |
| ner render/plaster | Fiber Cement Board | 0.024 | 0.024 | 0.14 | 50 | 1.2 | 0.1714 | 1.1009 | 25.8 | 26.9 | 32.6 |
| ner insulation | Rockwool / Glasswool | 0.1 | 0.124 | 0.04 | 1 | 0.1 | 2.5000 | 16.0549 | 26.9 | 43.0 | 33.6 |
| ditional Insulation | Unventilated Air Gap | 0.144 | 0.268 | 5.67 | 0 | 0 | 0.1800 | 1.1560 | 43.0 | 44.1 | 33.6 |
| all structure | Fiber Cement Board | 0.012 | 0.28 | 0.14 | 50 | 0.6 | 0.0857 | 0.5505 | 43.0 | 43.5 | 38.6 |
| lhesive Layer | Polymeric Cement plaster | 0.003 | 0.283 | 0.72 | 150 | 0.45 | 0.0042 | 0.0268 | 44.1 | 44.2 | 37.5 |
| terior insulation | EPS 20Kgs/m3 Cut Sheet | 0 | 0.283 | 0.034 | 60 | 0 | 0.0000 | 0.0000 | 43.5 | 43.5 | 38.6 |
| kterior render | Polymeric Cement plaster | 0 | 0.283 | 0.72 | 35 | 0 | 0.0000 | 0.0000 | 43.5 | 43.5 | 38.6 |
| apor Barrier/Paint etc | None | 0 | 0.283 | 0 | | 0 | 0.0000 | 0.0000 | 43.5 | 43.5 | 38.6 |
| utside Air | | | 0.283 | | | | 0.0430 | 0.2761 | 43.5 | 43.8 | 41.8 |
| | | | | | | 2.35 | 3.1143 | 20.0000 | | | |
| | | | | | U-V | ALUE | 0.321 | POWER CO | ST (Rs./KWHR) | 7.50 | |
| emperature inside | 25 | Humidity Inside | | 50.00% | R-VA | LUE (SI) | 3.11 | 3.11 HEAT VALUE REMOVED BY AC (MJ/KWHR) | | 3.60 | |
| emperature outside | 45 | Humidity Outside | | 90.00% | R-VAL | LUE (US) | 17.70 | EFFICIENCY OF A | C IN REMOVING HEAT | 80% | |
| ANNUAL SAVINGS -ENERGY COSTS/sq m (WITH INSULATION) | | ₹1,337 | ANNUAL -AC ENERGY COSTS/sq m (ENERGY LOST THROUGH WALLS WITH OUT INSULATION BY CONDUCTION) | | | | | DEGREE DAYS (AVG. TE | MP DIFF. X NO. OF DAYS) | 3000 | |
| ANNUAL SAVI | | | | | | | | AVG. TEMP DIFF. (TEMP OUT - TEMP IN)) | | | |
| | 5.4 ΧΔU Χ (ΔΤ Χ DAYS) X ENERGY COSTS | | | | | | | AVG. TEMP DIFF. (| TEMP OUT - TEMP IN)) | 20 | |

| Alea | |
|--------|--------|
| 14.32% | 0.51 |
| 85.68% | 0.32 |
| | 0.35 |
| | 14.32% |

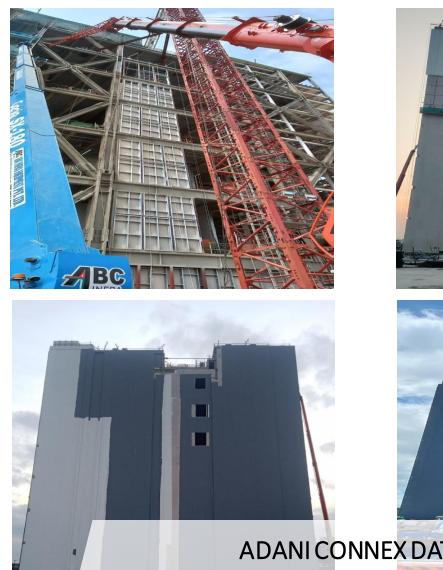
EFFECTIVE U-Value: 0.35 W/m2K Annual Savings – Energy Cost / sqm = Rs. 1337 / Sqm



External wall system with











ADANI CONNEX DATA CENTRE, CHENNAI



U VALUE CALCULATOR (WALL) – Adani Connex Data Centre, Chennai

| ELEMENT | Material | Width(d) | Cumulative | k | μ | μ.d | R | | т[°(|] | Dew point |
|---|--------------------------------------|------------------|------------|-------------------------------------|--------------------|------|---------------------------------------|--|--------------|------------|-----------|
| | | [m] | Width (d) | [W/mk] | | [m] | [m²K/W] | Delta T | Inner Bdry | Outer Bdry | [°C] |
| nside Air | | | | | | | 0.1300 | 0.8349 | 25.0 | | 13.9 |
| apor Barrier/Paint etc | None | 0 | 0 | 0 | | 0 | 0.0000 | 0.0000 | 25.8 | 25.8 | 13.9 |
| nner render/plaster | Fiber Cement Board | 0.024 | 0.024 | 0.14 | 50 | 1.2 | 0.1714 | 1.1009 | 25.8 | 26.9 | 32.6 |
| nner insulation | Rockw ool / Glassw ool | 0.1 | 0.124 | 0.04 | 1 | 0.1 | 2.5000 | 16.0549 | 26.9 | 43.0 | 33.6 |
| dditional Insulation | Unventilated Air Gap | 0.144 | 0.268 | 5.67 | 0 | 0 | 0.1800 | 1.1560 | 43.0 | 44.1 | 33.6 |
| vall structure | Fiber Cement Board | 0.012 | 0.28 | 0.14 | 50 | 0.6 | 0.0857 | 0.5505 | 43.0 | 43.5 | 38.6 |
| dhesive Layer | Polymeric Cement plaster | 0.003 | 0.283 | 0.72 | 150 | 0.45 | 0.0042 | 0.0268 | 44.1 | 44.2 | 37.5 |
| xterior insulation | EPS 20Kgs/m3 Cut Sheet | 0 | 0.283 | 0.034 | 60 | 0 | 0.0000 | 0.0000 | 43.5 | 43.5 | 38.6 |
| xterior render | Polymeric Cement plaster | 0 | 0.283 | 0.72 | 35 | 0 | 0.0000 | 0.0000 | 43.5 | 43.5 | 38.6 |
| apor Barrier/Paint etc | None | 0 | 0.283 | 0 | | 0 | 0.0000 | 0.0000 | 43.5 | 43.5 | 38.6 |
| Outside Air | | | 0.283 | | | | 0.0430 | 0.2761 | 43.5 | 43.8 | 41.8 |
| | | | | | | 2.35 | 3.1143 | 20.0000 | | | |
| | | | | | U-V | ALUE | 0.321 | POWER COS | ſ (Rs./KWHR) | 7.50 | |
| emperature inside | 25 | Humidity Inside | | 50.00% | R-VALUE (SI) 3.11 | | HEAT VALUE REMOVED BY AC (MJ/KWHR) | | 3.60 | | |
| emperature outside | 45 | Humidity Outside | | 90.00% | R-VALUE (US) 17.70 | | | IN REMOVING HEAT | 80% | | |
| ANNUAL SAVINGS -ENERGY COSTS/sq m (WITH INSULATION) | | | | ERGY COSTS/sq m I OUT INSULATION | | | ₹1,554 | DEGREE DAYS (AVG. TEMP DIFF. X NO. OF DAYS) | | 3000 | |
| ANNUAL SAVINGS | -ENERGY COSTS/sq m (WITH INSULATION) | ₹1,337 | | | | | | | | | |

| | Alea | | | |
|-------------------|------|--------|------|--|
| Thermal Bridging | | 14.32% | 0.51 | |
| Wall | | 85.68% | 0.32 | |
| Effective U Value | | | 0.35 | |
| | | | | |

EFFECTIVE U-Value: 0.35 W/m2K Annual Savings – Energy Cost / sqm = Rs. 1337 / Sqm Healthcare facility can improve its efficiency and sustainable performance by implementing:



Reduce waste generation and reinvent waste management



Redesign transportation systems to be more eco-friendly.



Conserve water



Improve energy efficiency

Everest highly insulating external & internal walls aid in drastic reduction of Building energy demand

SUSTAINABILITY IS NO LONGER ABOUT DOING LESS HARM IT'S ABOUT DOING MORE GOOD