

# Typar® Construction Products and Sustainability

Fiberweb, Inc.

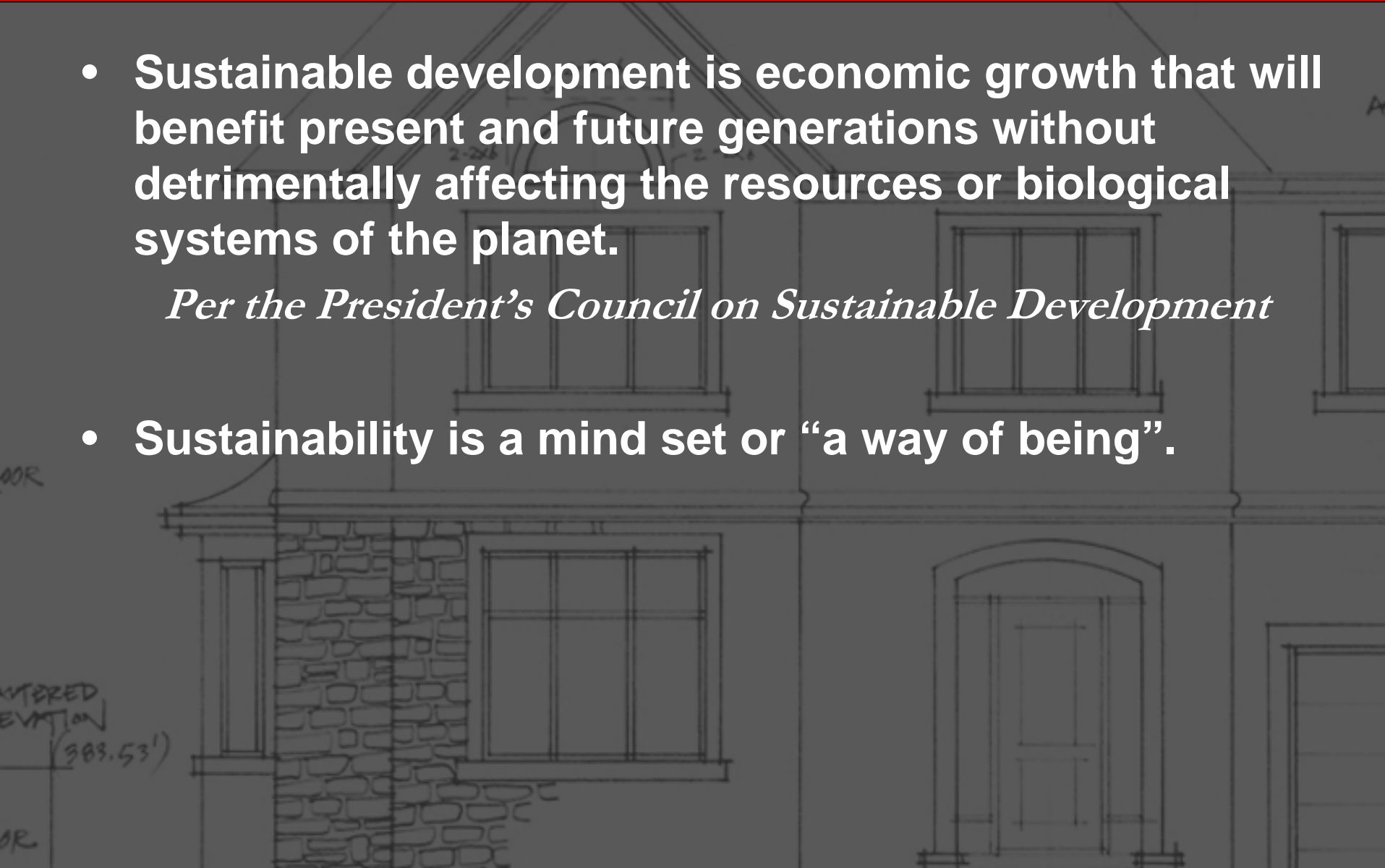


# What does “Sustainable” mean?

- Sustainable development is economic growth that will benefit present and future generations without detrimentally affecting the resources or biological systems of the planet.

*Per the President’s Council on Sustainable Development*

- Sustainability is a mind set or “a way of being”.



# How does “Green Building” Design interact with Sustainability?

- Sustainable or ‘green building’ design and construction is the opportunity to use our resources more efficiently while creating healthier and more energy-efficient homes. ... leaving a lighter footprint on the environment through conservation of resources, while at the same time balancing energy-efficient, cost-effective, low-maintenance products for our construction needs.

*Green Building Solutions . Org*

- Broad areas covered are:
  - Sustainable Site Planning
  - Water Conservation
  - Energy Conservation
  - Materials Conservation
  - Indoor Environment Quality

# Leaders on Sustainability

- **U.S. Green Building Council LEED®**
  - Provides leadership for both commercial and residential green building practices
- **America Institute of Architects**
  - Through its Sustainable Design Policy Resource Center, the AIA seeks to dramatically increase the number of high-performance buildings constructed in the coming decades.
- **Federal, State and Local Government and Agencies**
  - Energy Star® program developed by the U.S. Environmental Protection Agency and U.S. Department of Energy
  - Various states and municipalities have programs and building codes that encourage Green Building concepts

# U.S. Green Building Council LEED®



The Leadership in Energy and Environmental Design (LEED) provides the nationally recognized standard for high performance Green Buildings

- LEED Green Building Rating System™ provides a point system for evaluating Green Building design and construction covering:
  - Sustainable Site Selection & Development
  - Water Efficiency
  - Energy Efficiency
  - Material Selection
  - Recycling
  - Indoor Environmental Quality

# LEED® New Construction

- LEED for New Construction provides for a point based rating system for Buildings with four levels of certification

Certification Level	Points
Basic	26 -32
Silver	33 – 38
Gold	39 – 51
Platinum	52 - 69

# LEED® for Homes

- LEED for Homes “Pilot 1.11a” Program is a voluntary rating system that promotes the design and construction of high performance "green" homes using a point based rating system for four levels of certification

Certification Level	Points
Certified	45 - 59
Silver	60 - 74
Gold	74 - 89
Platinum	90 - 128

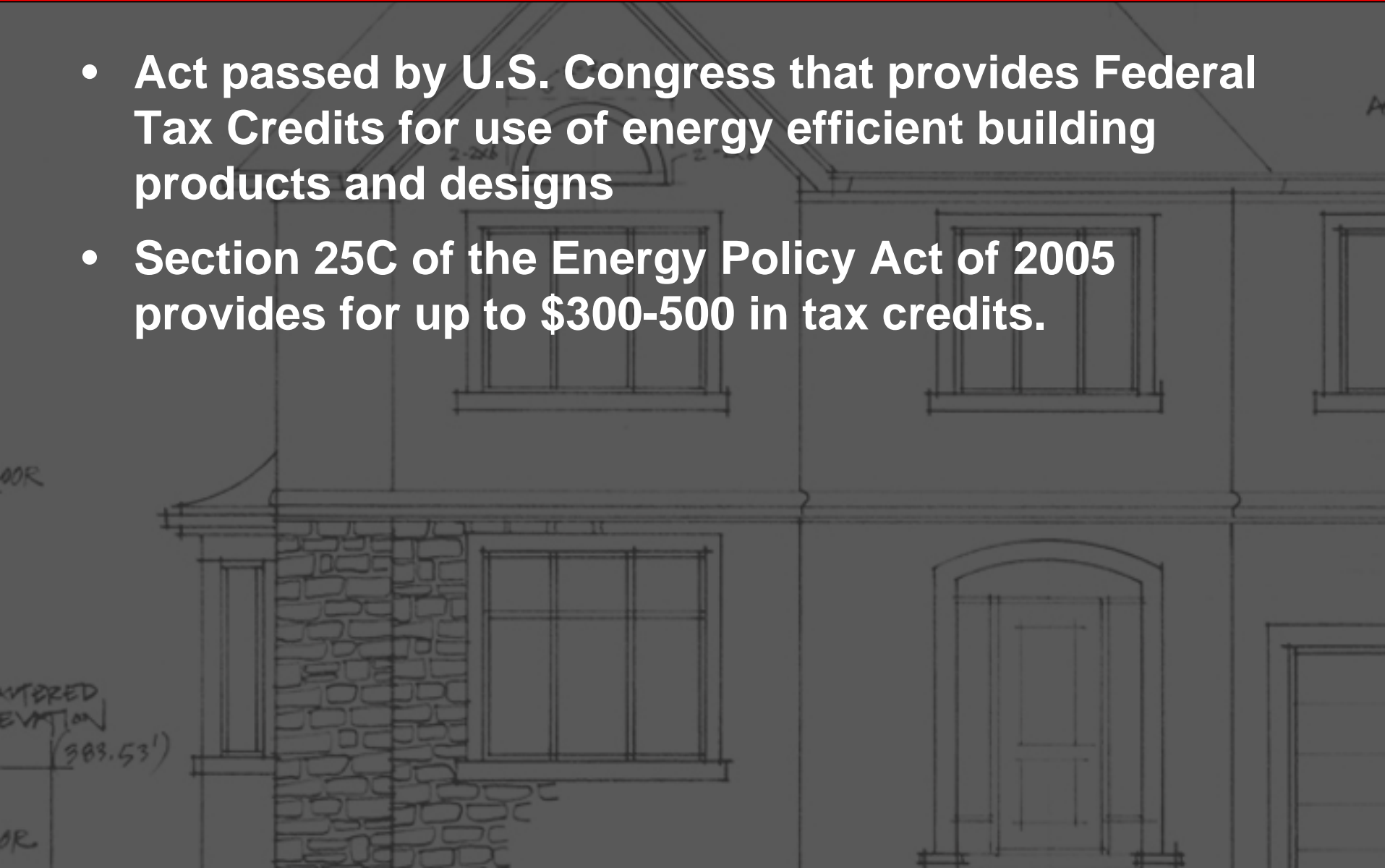
# Impact of LEED Certification

- Improves environmental footprint of new structures
- May increase Builder profitability
  - Tax credits
  - Local government rebates and waivers
- Expedited permits and inspections
- Allowance for higher density projects



# Energy Policy Act of 2005

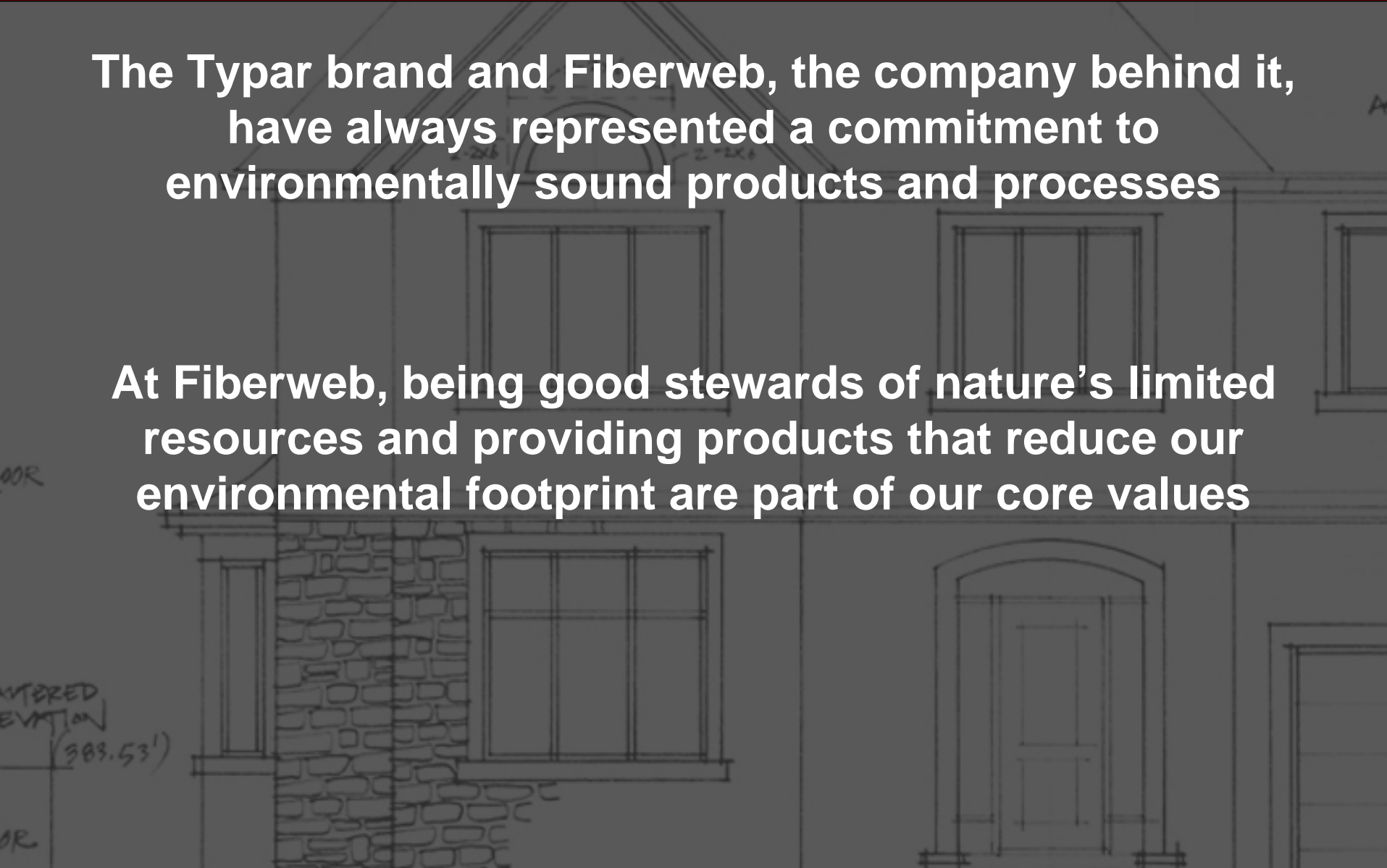
- Act passed by U.S. Congress that provides Federal Tax Credits for use of energy efficient building products and designs
- Section 25C of the Energy Policy Act of 2005 provides for up to \$300-500 in tax credits.



# Typar Impact on Sustainability

The Typar brand and Fiberweb, the company behind it, have always represented a commitment to environmentally sound products and processes

At Fiberweb, being good stewards of nature's limited resources and providing products that reduce our environmental footprint are part of our core values



# Fiberweb, Inc. Health, Safety & Environment Vision

- In all our activities, we seek to protect employee safety, the environment and public and occupational health, while promoting profitability and business growth. We are committed to continual improvement in our Health, Safety & Environmental performance.
- We recognize that delivering a successful HS&E management program depends on the total commitment of all Fiberweb employees. Such commitment and leadership will be visible throughout Fiberweb, with accountability demonstrated at every functional level of the organization.
- Our HS&E program is made up of the following elements:
  - **Safety performance metrics** - Closely tracking and evaluating our facilities' Recordable Incident Rates (RIR) trends and setting improvement targets helps to eliminate unsafe practices and conditions, and prevent injuries.
  - **Initiatives** - Our training and development opportunities give employees the skills and knowledge they need, both to thrive as individuals and to improve our business performance.
  - **External recognition** - Many Fiberweb facilities, employees and activities have won recognition for their outstanding HS&E performance. We recognize those who have earned this distinction as models for our entire organization.
  - **Environmental performance metrics** - We collect and report key environmental performance information annually, focusing on reducing our environmental impact in the areas of waste generation, energy consumption and water consumption.
  - **Supply chain** - We work with our supply chain to design and develop products that promote sustainable development principles.

# Typar Contribution to LEED – New Construction



- **Typar qualifies for Recycle content**
  - Weather Resistant Barriers contain 23% Post Industrial recycle content
- **Typar qualifies under Energy Star**
  - As an Air Barrier, Typar supports the Air Sealing requirements of Energy Star which can reduce annual energy consumption 24-40%



<b>Potential Certification Points</b>	<b>2</b>
---	----------

# Typar Contribution to LEED – Homes Innovation & Design (ID) Criteria

- Innovation & Design (ID) -The use of the Typar Weather protection System for the building envelope qualifies under the Innovative Design criteria for Durability in regards to Exterior Water, Air Infiltration, Interstitial Condensation, Ultraviolet Radiation and Natural Disasters as our product reduces risk of water intrusion into the wall cavity and its damaging impact on structural integrity and indoor air quality.
- In addition, involvement of Typar Technical resources may provide additional credits under the Integrated Project Team category.

<b>Potential Certification Points</b>	<b>5</b>
---------------------------------------	----------

# Typar Contribution to LEED – Homes Sustainable Site (SS) Criteria



Our Typar® brand Landscape and GeoTextile products provide many opportunities to manage invasive plant control, landscape design as well as improve, manage and maintain erosion control

<b>Potential Certification Points</b>	<b>6</b>
---------------------------------------	----------

# Typar Contribution to LEED – Homes Energy & Atmosphere (EA) Criteria



- Our Typar Weather Protection System is a critical component of the Energy Star Home requirement of EA Section 1.1, the Exceptional Energy Performance of EA Section 1.2 and the Air Infiltration requirements of EA Sections 3.1-3.3
- Typar qualifies under Energy Star
  - As an Air Barrier, Typar supports the Air Sealing package
  - Reduces energy consumption 25-40% per year (U.S. DOE)

**Potential Certification Points**

**34 pts for Complete ES Home**

# Typar Contribution to LEED – Homes Materials & Resources (MR) Criteria

- With 23% post industrial recycle content and minimal VOC emissions of our weather resistive barriers, our product contributes to additional points under Environmentally Preferable products MR Section
- Additional credit for “Regional” use within 500 miles of Nashville, TN

<b>Potential Certification Points</b>
---

<b>8</b>
----------

# Typar Contribution to LEED – Homes Indoor Environmental Quality (IEQ) Criteria

- Since Typar is part of the air sealing process for Energy Star, we contribute towards the Indoor Air Package of Section IEQ 1.1.
- In addition, the Typar Weather Protection System contribute towards Moisture Control requirements of IEQ Section 3 and Garage Pollutant Protection Section 10.2

<b>Potential Certification Points</b>	<b>14</b>
---	-----------

# Typar Contribution to LEED – Homes Awareness & Education (AE) Criteria



Typar provides training for Architects (CEU Course), Material Dealers, Builders and Homeowners regarding the need for weather resistive barriers, the Typar System approach, Proper installation and applicable Typar warranties as required under Education for Homeowners and/or Tenants AE Sections 1.1, 1.2 and AE Section 2

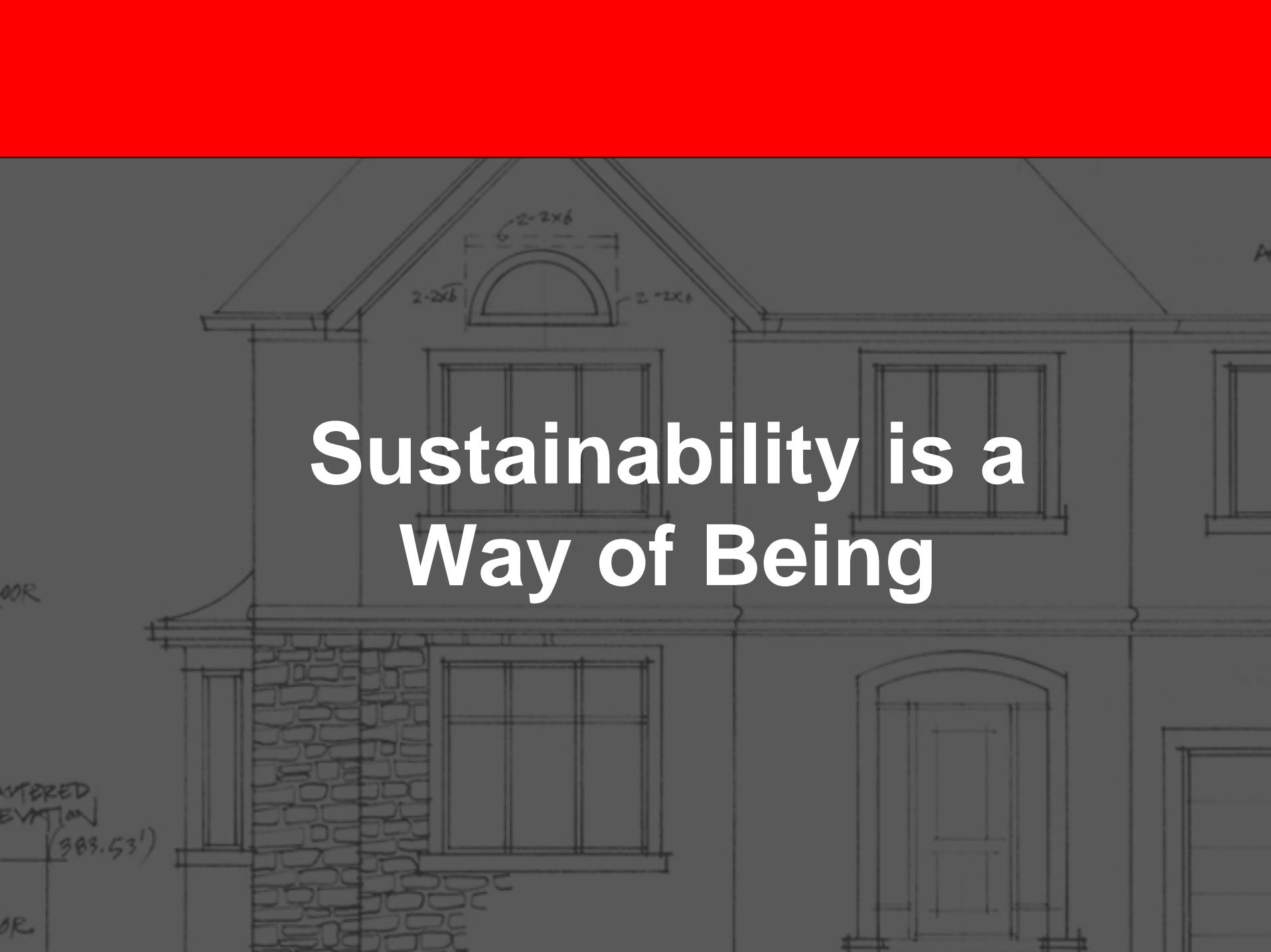
Potential Certification Points	3
--------------------------------	---

# Typar Contribution to Energy Policy Act of 2005

- Typar weather resistive barriers, construction tape and flashings, when installed as part of an Insulation System, are “Eligible Building Envelope Components”
- Typar products Qualify for the Federal Tax Credit under Section 25C of the Energy Policy Act of 2005
- Potential Tax Savings of \$300-500 per homeowner




Tax Credit Cert.

An architectural line drawing of a two-story house facade. The drawing is rendered in a light gray color against a dark gray background. At the top, there is a solid red horizontal bar. The house features a gabled roof with a small arched window in the gable, flanked by two windows on the second floor. The first floor has a stone-textured wall on the left, a large window, and a door with an arched transom. Handwritten annotations include '2-2x6' near the gable window, 'ENTERED ELEVATION (383.53\'' on the left, and '00R' and 'OR' at the bottom left. The main text 'Sustainability is a Way of Being' is centered in white, bold font.

# Sustainability is a Way of Being

# Typar Products & Services Contribute to Green Building

- Energy conservation
  - Durability
  - Recycle & Re-Use
  - Site Preparation
  - Indoor Environmental Quality
  - Awareness & Education
- 
- The background of the slide is a grayscale architectural drawing of a building facade. It features a central window with a decorative arch above it, flanked by two smaller windows. Below the central window is a door with a similar arch. The drawing includes various annotations such as '2-2x6' for structural elements, 'ENTERED ELEVATION (383.53\'' for a vertical measurement, and 'OR' in several places. The drawing is overlaid with a list of six green building benefits.

# The Typar® Weather Protection System Delivers Sustainable Advantage



Count on Typar to  
provide Sustainable  
Products & Services  
that make a  
Difference in Our  
World