Description of Materials

675 & 705 Los Esteros Road San Jose, CA 95134

www.zankerrecycling.com
# Load Determination at Zanker

- Zanker Recycling - Site 1: 3
- Zanker Recycling - Site 2: 6

# The US Green Building Council and LEED

- LEED v4.1 Construction and Demolition Waste Management: 9

# RCI and Third Party Certification

- Materials Accepted/Not Accepted: 13

# Materials Accepted/Not Accepted

<table>
<thead>
<tr>
<th>Material</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demolition Debris</td>
<td>15</td>
</tr>
<tr>
<td>Wood Debris</td>
<td>17</td>
</tr>
<tr>
<td>Wood Debris - Mixed</td>
<td>18</td>
</tr>
<tr>
<td>Yard Debris</td>
<td>19</td>
</tr>
<tr>
<td>Yard Debris - Mixed</td>
<td>20</td>
</tr>
<tr>
<td>Brush</td>
<td>21</td>
</tr>
<tr>
<td>Brush - Mixed</td>
<td>22</td>
</tr>
<tr>
<td>Wood Shingles with Tarpaper</td>
<td>23</td>
</tr>
<tr>
<td>Wood Shingles with Tarpaper - Mixed</td>
<td>24</td>
</tr>
<tr>
<td>Concrete 1</td>
<td>25</td>
</tr>
<tr>
<td>Concrete 2</td>
<td>26</td>
</tr>
<tr>
<td>Concrete 3</td>
<td>27</td>
</tr>
<tr>
<td>Stucco/Plaster</td>
<td>28</td>
</tr>
<tr>
<td>Tar and Gravel Roofing</td>
<td>29</td>
</tr>
<tr>
<td>Clean Fill Dirt/Sod</td>
<td>30</td>
</tr>
<tr>
<td>Palm/Ivy/Fibrous Materials</td>
<td>31</td>
</tr>
<tr>
<td>Trash</td>
<td>31</td>
</tr>
<tr>
<td>Composite Asphalt Roofing</td>
<td>33</td>
</tr>
<tr>
<td>Composite Asphalt Roofing - Mixed</td>
<td>34</td>
</tr>
<tr>
<td>Mobile Homes</td>
<td>35</td>
</tr>
<tr>
<td>Interior Demolition</td>
<td>36</td>
</tr>
<tr>
<td>Tree Chips</td>
<td>37</td>
</tr>
<tr>
<td>Tree Chips - Mixed</td>
<td>38</td>
</tr>
<tr>
<td>Construction Debris</td>
<td>39</td>
</tr>
<tr>
<td>Construction Debris - Mixed</td>
<td>39</td>
</tr>
<tr>
<td>Sheet Rock</td>
<td>40</td>
</tr>
<tr>
<td>Sheet Rock - Mixed</td>
<td>41</td>
</tr>
<tr>
<td>Mixed Debris</td>
<td>42</td>
</tr>
<tr>
<td>Miscellaneous Debris</td>
<td>43</td>
</tr>
<tr>
<td>Bulk Debris</td>
<td>44</td>
</tr>
<tr>
<td>Bulky Miscellaneous Items</td>
<td>45</td>
</tr>
</tbody>
</table>

- Each material can be clicked and directed to the page *
- To return to the table of contents, click the logo on any page **
Load Determination at Zanker

Zanker inspects each load of incoming material to accurately represent all materials received. There are two points of quality control; at the scale house and at the tipping area. Zanker provides a material description code for each load. Diversion rates for all the codes are updated monthly and can be found at www.zankerrecycling.com.

For our most up-to-date inbound recycling and disposal fees, please visit www.zankerrecycling.com/disposalfees
The Zanker Facilities in San Jose (Site 1) originally began as Zanker Road Landfill. It quickly developed into a major full service, resource management, composting/recycling facility and landfill for residents and commercial businesses. This facility is divided into operational areas handling specific types of waste materials, which include: Demolition Debris Recycling, Asphalt Shingle Processing, Concrete Recycling and Wood Waste/Brush Recycling. The facility is also home to the Zanker Landscape Materials yard which sells all our landscape and construction products, as well as other landscape supplies.
In 1999, the Zanker Material Processing Facility, ZMPF (Site 2), began recycling operations. The facility is divided into several different processing areas, each capable of processing different types of waste streams. These areas include: Sheetrock Processing Area, Soils Processing Area and Mixed Construction Wastes Recycling. Operation plants included here are: C&D Operation, Sheetrock Operation, and the DM Reduction System.
The US Green Building Council and LEED.

Every LEED (Leadership in Energy and Environmental Design) project starts with a waste management plan and must be measured on its own merit, not just on a specific load of recyclables and/or trash. A project may have multiple contractors who each perform different functions, but each contractor must account for the waste their project generates, and must provide proper disposal receipts. The receipts go to the owner or responsible party to track all the waste and recyclables generated for the project.

Debris box companies bear the most responsibility of any waste-processing company for tracking and record-keeping for the projects, although they normally do not receive all the waste materials.

Contractors who have different commodities have different recycling rates for those commodities. For example, an electrician who sells copper scraps may have a clean commodity that is 100% recyclable, whereas an insulation contractor’s materials may have a 0% recycling rate. Mixed Waste containers usually have a reduced diversion rate since some materials are not recoverable. LEED rarely approves giving all containers a blanket diversion rate, since a mixed debris load may contain a mix of both recyclable items, like copper scraps, and non-recyclable items, like insulation. One of the primary goals of LEED is to encourage projects to source-separate (SS) as much as possible. SS allows the project to have a higher diversion rate because the materials are cleaner and more marketable.
LEED v4.1
Construction and Demolition Waste Management

INTENT
To reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing, and recycling materials.

REQUIREMENTS
Recycle and/or salvage nonhazardous construction and demolition materials. Calculations can be by weight or volume but must be consistent throughout.

Exclude excavated soil, land-clearing debris from calculations. Include materials destined for alternative daily cover (ADC) in the calculations as waste (not diversion). Include wood waste converted to fuel (biofuel) in the calculations; other types of waste-to-energy are not considered diversion for this credit.

However, for international projects that cannot meet credit requirements using reuse and recycling methods, waste-to-energy systems may be considered waste diversion if the European Commission Waste Framework Directive 2008/98/EC and Waste Incineration Directive 2000/76/EC are followed and Waste to Energy facilities meet applicable European Committee for Standardization (CEN) EN 303 standards.

OPTION 1. DIVERSION (1–2 POINTS)
Path 1a. Divert 50% and Three Material Streams (1 point)
Divert at least 50% of the total construction and demolition material; diverted materials must include at least three material streams.

OPTION 2. REDUCTION OF TOTAL (CONSTRUCTION AND DEMOLITION) WASTE MATERIAL (2 POINTS)
Salvage or recycle renovation and demolition debris and utilize onsite waste minimizing design strategies for new construction activities.

For more information visit www.usgbc.org/credits/new-construction/v4.1/material

Use of Zanker Recycling facilities counts as a waste stream for LEED Projects.

C&D CREDITS
1-2 POINTS:
• 50% Diversion without ADC
  • Must divert at least 3 material “streams”

Divert at least 50% of the total construction and demolition material; diverted materials must include at least two material streams. All commingled recycling is required to be one of the streams and must be sent to offsite sorting facility(ies) certified by the Recycling Certification Institute or approved equivalent.

2 POINTS:
• 75% diversion without ADC
  • Must divert at least 4 material “streams”

Divert at least 75% of the total construction and demolition material; diverted materials must include at least three material streams. All commingled recycling is required to be one of the streams and must be sent to offsite sorting facility(ies) certified by the Recycling Certification Institute or approved equivalent.
RCI and Third Party Certification.

Zanker’s construction and demolition (C&D) recycling facilities have received third-party certification through the Recycling Certification Institute. As a result, the USGBC awarded Zanker one innovation and design point through the LEED Pilot Credit Library.

The USGBC developed the new Pilot Credit Point as part of a focus on performance in its LEED rating systems. The intent of the point is to encourage a verification standard for recycling facilities, urging them to quantify waste data accurately. The point will reduce uncertainty associated with self-reported numbers, and as a result will achieve higher quality construction and demolition waste diversion.

The credit is available for pilot testing by a variety of LEED 2009 project types including: New Construction, Core and Shell, Schools, Retail, Commercial Interiors, Homes, and Existing Buildings. Visit the USGBC website at www.usgbc.org for specific details on the Pilot Credit, and on the requirements for independent third party certification. Presently, the Recycling Certification Institute’s (RCI) Certification Of Real Rates (CORR) Protocol is the only program that meets the requirements of this Pilot Credit.
Materials Not Accepted

Acetylene sludge, Acid wastes, AFU floc, Alkaline corrosive liquids, Alum sludge, Ashes *, Asphalt, liquid or emulsion form

Bag house waste *, Batteries, Battery add, Beryllium waste, Bilge water, Boiler cleaner waste, Buffing dust, Bunker oil

Catalyst *, Caustic sludge, Caustic waste, Cement kiln dust *, Cement liquid *, Chemical cleaners *, Chemical toilet cleaners *, Chemical wastes, Cleaner alkaline, Cleaning compounds *, Cleaning solvents, Coking process wastes, Contaminated soil or sand *, Corrosion Inhibitor, Creosote Treated Items, Cyanide solutions or waste

Data processing fluid, Distillation bottoms & light ends, Drilling fluids and mud *, Drugs, Dyes *, Emission control wastes *, Epoxy waste *, Explosives, all forms, Extremely hazardous waste, Finishing waste, Flammable materials & waste, Flue gas emission control waste, Fly ash, Fuel waste

Glaze sludge, Hazardous waste, Heavy ends waste, Household hazardous waste **, Ink printing and sludge waste, Insecticides, Laboratory wastes *, Lagoon waste, Lime and water, Lime sludge and waste water

Metal waste, Mine Tailings, Muriatic acid and Oil ash

Paint remover or stripper, Paint thinner, Paint waste or slops, Petroleum refining wastes, Pesticide waste, Pesticide containers, unflushed, Pharmaceuticals, Pickling waste, Pigments *, Plating waste, Polychlorinated biphenyl’s (*CE), Pressure treated wood, Printing Ink*, Produced water, Radioactive wastes, Railroad Ties, Resin manufacturing waste*

Sanding blasting residue *, Scrubber sludge, Slag waste, Slop oil, Sludge acid, Soda ash, Solvents, Still bottoms waste, Stripping solution, Sulfur sludge’s, Sump waste, Tank bottom sediment *, Tank cleaning sludge’s *, Tanning sludge’s toxic materials and waste, Treated wood waste, Waste water treatment sludge’s, Weed killer, Wood preservation waste

For more information please visit www.zankerrecycling.com/materialsnotaccepted.
Demolition Debris

Structural building and house demolition debris containing more than 75% lumber by weight or volume. Materials are mechanically demolished and loaded into high-side trailers, end-dumps or transfer trucks. Pressure-treated lumber and lead-contaminated lumber are not allowed. This debris does NOT include shredded materials.

Demolition Debris - Mixed

Demolition Debris from structural building and house demolition that contains greater than 50% recyclables. Often contains large amounts of dirt, trash and insulation.

May be classified as TRASH or MISCELLANEOUS DEBRIS if containing excessive amounts of trash. NON-RECYCLABLE ITEMS (TRASH) may include pressure-treated wood, laminated wood, painted wood, insulation, PVC pipes, film plastics and other packing materials, asphalt roofing, roofing felt, roofing insulation, fiberglass insulation, vinyl flooring, ceiling tiles, stucco, soil, windows, doors, carpeting, carpet padding, cabinets, sinks, furniture, Styrofoam, crushed materials, mattresses, textiles, linens, couches, chairs, desks, office partitions, signs, foam board, cabinets, wet materials, Visqueen, composite materials, materials contained in trash bags, or loads containing minuscule and non-extractable quantities of recyclable material.
Wood Debris
Site 1

Includes lumber, pallets, fencing, plywood, and lumber used for cement forms. Small amounts of metal affixed to the lumber such as nails or hinges are acceptable. Painted and pressure-treated lumber are not acceptable. Railroad ties are NOT allowed at our facility.

Wood Debris - Mixed
Site 1

Primarily wood with some nominal contamination, which normally includes plastics, painted lumber, metals.

May be classified as TRASH or MISCELLANEOUS DEBRIS if containing excessive amounts of trash. NON-RECYCLABLE ITEMS (TRASH) may include pressure-treated wood, laminated wood, painted wood, insulation, PVC pipes, film plastics and other packing materials, asphalt roofing, roofing felt, roofing insulation, fiberglass insulation, vinyl flooring, ceiling tiles, stucco, soil, windows, doors, carpeting, carpet padding, cabinets, sinks, furniture, Styrofoam, crushed materials, mattresses, textiles, linen, couches, chairs, desks, office partitions, signs, foam board, cabinets, wet materials, Visqueen, composite materials, materials contained in trash bags, or loads containing minuscule and non-extractable quantities of recyclable material.
Yard Debris

Site 1

Yard waste includes leaves, cut grass, flowers, small amounts of brush or tree trimmings, and miscellaneous non-fibrous plants.

Yard Debris - Mixed

Site 1

As defined by YARD DEBRIS, may also have nominal non-yard waste items such as plastics, trash, palm or ivy.

May be classified as TRASH or MISCELLANEOUS DEBRIS if containing excessive amounts of trash. NON-RECYCLABLE ITEMS (TRASH) may include pressure-treated wood, laminated wood, painted wood, sawdust, insulation, PVC pipes, film plastics and other packing materials, asphalt roofing, roofing felt, roofing insulation, fiberglass insulation, vinyl flooring, ceiling tiles, stucco, soil, windows, doors, carpeting, carpet padding, cabinets, sinks, furniture, Styrofoam, crushed materials, mattresses, textiles, linen, couches, chairs, desks, office partitions, signs, foam board, cabinets, wet materials, Visqueen, composite materials, materials contained in trash bags, or loads containing miniscule and non-extractable quantities of recyclable material.
Brush
Site 1

Brush and tree trimmings, branches, tree rounds, tree chips, brush, leaves, and yard trimmings. Tree rounds and trees must be less than 4’ and have a diameter of no more than 2’. BRUSH OVERSIZED—All brush and tree-trimmings that did not fit the previous criteria.

Brush - Mixed
Site 1

These materials include BRUSH as described plus other items such as trash, dirt, palm and ivy, etc.

May be classified as TRASH or MISCELLANEOUS DEBRIS if containing excessive amounts of trash. NON-RECYCLABLE ITEMS (TRASH) may include pressure-treated wood, laminated wood, painted wood, insulation, PVC pipes, film plastics and other packing materials, asphalt roofing, roofing felt, roofing insulation, fiberglass insulation, vinyl flooring, ceiling tiles, stucco, soil, windows, doors, carpeting, carpet padding, cabinets, sinks, furniture, Styrofoam, crushed materials, mattresses, textiles, linen, couches, chairs, desks, office partitions, signs, foam board, cabinets, wet materials, Visqueen, composite materials, materials contained in trash bags, or loads containing minuscule and non-extractable quantities of recyclable material.
Wood Shingles with Tarpaper - Mixed

Site 1

Although these materials are still processed as a source-separated item, they usually contain other materials other than shingles with tarpaper. These materials can include asphalt shingles, trash, tar and gravel roofing, and plastics. May be classified as TRASH or MISCELLANEOUS DEBRIS if containing excessive amounts of trash.

NON-RECYCLABLE ITEMS (TRASH) may include pressure-treated wood, laminated wood, painted wood, insulation, PVC pipes, film plastics and other packing materials, asphalt roofing, roofing felt, roofing insulation, fiberglass insulation, vinyl flooring, ceiling tiles, stucco, soil, windows, doors, carpeting, carpet padding, cabinets, sinks, furniture, Styrofoam, crushed materials, mattresses, textiles, linen, couches, chairs, desks, office partitions, signs, foamboard, cabinets, wet materials, Visqueen, composite materials, materials contained in trash bags, or loads containing minuscule and non-extractable quantities of recyclable material.
Concrete 1

Site 1

Clean concrete from building pads, driveways, road construction, etc. May include native stone and asphalt, less than 3' with flush-cut wire or rebar. No dirt, base rock, brick, roofing tiles, wood, or trash.

Concrete 2

Site 1

Concrete and asphalt that is less than 3' with some wire or rebar and a small amount of dirt or base rock. No brick, roofing tiles, wood, or trash.
Concrete over 3' in diameter in any direction will be charged as OVERSIZED. Brick, adobe block, asphalt with peromat, roofing tiles, clay tile roofing or other inert style of roofing. Loads that contain excessive amounts of dirt or baserock will be charged as dirt.

Any load that resembles the images below will be charged as TRASH. Materials will be classified as NON-RECYCLABLE ITEMS (TRASH) if Stucco/Plaster materials are bagged. Excessive trash, wood, etc. in the loads will deem the entire load as TRASH.

This load contains stucco, plaster, pool plaster or gunite. Loads must not be wrapped in Visqueen or contained within garbage bags or boxes. Please place Visqueen in a trash bag at the front of your load.

Any load that resembles the images below will be charged as TRASH. Materials will be classified as NON-RECYCLABLE ITEMS (TRASH) if Stucco/Plaster materials are bagged. Excessive trash, wood, etc. in the loads will deem the entire load as TRASH.
Tar and Gravel Roofing

Site 1

Roofing materials containing roofing felt or paper, tar and assorted gravel materials.

Clean Fill Dirt/Sod

Site 1

Dirt and sod. All loads over 8 cubic yards are charged by the ton.
Palm/Ivy/Fibrous Materials

Site 1

These items will not be processed. They will be classified as TRASH.

Trash

Site 1/2

Materials that are tipped directly into the outgoing trash pile.

NON-RECYCLABLE ITEMS (TRASH) may include pressure-treated wood, laminated wood, painted wood, sawdust, insulation, PVC pipes, film plastics and other packing materials, asphalt roofing, roofing felt, roofing insulation, fiberglass insulation, vinyl flooring, ceiling tiles, stucco, soil, asphalt, windows, doors, carpeting, carpet padding, furniture, cabinets, sinks, furniture and Styrofoam, crushed materials, mattresses, textiles and linen, couches, chairs, desks, office partitions, signs, foam board, cabinets, wet materials, Visqueen, composite type materials and or materials contained in trash bags.
Composite Asphalt Roofing

Site 1

Residential roofing shingles with no other wasted commingled in the load. Does not include tar and gravel roofing or commercial roofing tear-offs. If wood, metals, or bags are commingled in the load, the load will be considered COMPOSITE ASPHALT ROOFING-MIXED.

Composite Asphalt Roofing - Mixed

Site 1

Commercial and Residential asphalt roofing that contain lumber, flashing, cardboard, insulation, or trash. Wood shingles, trash and insulation may also appear in the load. This material is made into alternative daily cover (ADC).
Mobile Homes
Site 1

Trailers, RVs, boats, and mobile homes. No extra charge for refrigerators, air conditioners or other Freon containing items. Extra charge for tires. No liquids, such as fuel, gas, or water.

Interior Demolition
Site 1

Demolition from tenant improvement (TI) projects or the interior debris from tilt-up buildings. Interior demolition includes sheetrock, wiring, metal studs, insulation, ceiling tiles, carpet and carpet padding, vinyl flooring, fixtures, cabinets, doors and windows. If load contains excessive amounts of insulation, ceiling tiles, fixtures, cabinets, vinyl flooring, composite materials and doors, it will be classified as TRASH.
Tree Chips
Site 1

Tree chips are produced from chipped tree trimmings and may contain a few small tree rounds. No fibrous materials.

Tree Chips - Mixed
Site 1

Tree chips that contain lumber, chipped palm, or other fibrous materials. Loads cannot contain TRASH. Pressure treated tree stakes not accepted.
Construction Debris
Site 2

These are materials that contain over 75% RECYCLABLE ITEMS. These types of loads come from construction sites, but may contain some demolition debris, and are usually hand-loaded. These loads are tipped at one of our Sorting Operations. Recyclable items in these loads may include lumber, sheetrock, concrete, brick, tile, granite, rigid plastics, OCC, paper, metals, brush and trees, rock, asphalt, windows, appliances and toilets.

Construction Debris - Mixed
Site 2

May be classified as TRASH or MISCELLANEOUS DEBRIS if containing excessive amounts of TRASH.

NON-RECYCLABLE ITEMS (TRASH) may include pressure-treated wood, laminated wood, painted wood, sawdust, insulation, PVC pipes, film plastics and other packing materials, asphalt roofing, roofing felt, roofing insulation, fiberglass insulation, vinyl flooring, ceiling tiles, stucco, soil, windows, doors, carpeting, carpet padding, cabinets, sinks, furniture, Styrofoam, crushed materials, mattresses, textiles, linen, couches, chairs, desks, office partitions, signs, foam board, cabinets, wet materials, Visqueen, composite materials, materials contained in trash bags, or loads containing minuscule and non-extractable quantities of recyclable material.
Sheet Rock - Mixed
Site 2

Sheetrock that contains nominal amounts of other items such as Visqueen, ceiling tiles, wood or other debris. These loads are normally generated during new construction, not by demolition.

May be classified as TRASH or MISCELLANEOUS DEBRIS if containing excessive amounts of TRASH. NON-RECYCLABLE ITEMS (TRASH) may include pressure-treated wood, laminated wood, painted wood, sawdust, insulation, PVC pipes, film plastics and other packing materials, asphalt roofing, roofing felt, roofing insulation, fiberglass insulation, vinyl flooring, ceiling tiles, stucco, soil, windows, doors, carpeting, carpet padding, cabinets, sinks, furniture, Styrofoam, crushed materials, mattresses, textiles, linen, couches, chairs, desks, office partitions, signs, foam board, cabinets, wet materials, Visqueen, composite materials, materials contained in trash bags, or loads containing minuscule and non-extractable quantities of recyclable material.

This material includes source-separated sheetrock.
Mixed Debris
Site 2

Examples include house clean-outs, appliances, non-varnished furniture, OCC, paper, and CONSTRUCTION DEBRIS hauled by a self-haul vehicle, junk hauler or contractor. If the materials contain a high percentage of non-recyclable materials, the load will be considered TRASH or MISCELLANEOUS DEBRIS (please refer to definitions).

NON-RECYCLABLE ITEMS (TRASH) include: pressure treated wood, laminated wood, painted wood, chip-wood, sawdust, insulation, PVC pipes, film plastics and other packing materials, asphalt roofing, roofing felt, roofing insulation, fiberglass insulation, vinyl flooring, ceiling tiles, stucco, soil, asphalt, windows, doors, carpeting, carpet padding, furniture, cabinets, sinks, furniture and Styrofoam, crushed materials, mattresses, textiles and linen, couches, chairs, desks, office partitions, signs, foam board, cabinets, wet materials, Visqueen, composite materials and or materials contained in trash bags.

Miscellaneous Debris
Site 2

Miscellaneous debris contains minimal amounts of recyclable materials.
Bulky Miscellaneous Items

Site 2

Bulky items include couches, chairs, tables, Ikea’ furniture and other furniture, mattresses and white goods, styrofoam, or other large items.
For more information, please contact Jerame
Jerame@zankerrecycling.com
(408)712-6169

To return to the table of contents, click the logo.