Davies End of Life Recovery Options

Identification of Materials		Davies Furniture Recovery Opportunities		Material Recovery Opportunities		
Material	**Example Components**	**As Is Reuse (Highest Value)**	**Refurbishment (High Value)**	**Recycling Notes**	**Recycling Opportunity (Medium Value)**	**Other Opportunity (Low Value)**
Electronics						
Miscellaneous Electronics (Circuit boards, cords, motors, etc.)	Powerway, Base Power-In, receptacle	Yes	Yes	Actively recycled to capture metals, precious metals, and plastic content.	Recycled to capture metals, precious metals, and plastic content	Recycled only to capture a limited material stream (e.g. precious metals)
Glass						
Tempered Glass	HM Etho Glass Tiles, Glass Add-up, Glass Panels	Yes	No	Recycling requires seperation from traditional glass (i.e. "float glass") as tempered glass has a higher melting point. As such, many facilities do not accept tempered glass.	Recycled tempered glass	Crushed for use in aggregate products
Fiberglass Batting	SC 9000 & Avenir Acoustical Filler	Yes	No	Limited recycling may be available into composite acoustical panels and other composite products. Material is not typically accepted by most recyclers.	Recycled into acoustical panels & other composite products	Landfill Disposal
Plastic						
Acetal (POM)	hardware components	Yes Notes: Structural integrity and material finish must be in good condition	No	Actively recycled into raw polymer by industrial plastic recyclers. It is important to note, however, that recycled plastic markets are highly variable and acceptance of a given material fluctuates based upon multiple factors (e.g. material type, quantity, presence of contaminants, markets for that material, etc). Recycling value is improved with greater quantities and accurate material identification (i.e. identified by base polymer, filler, and additive content).	Recycled POM Regrind	Mixed Thermoplastic Compression Molding
Acrylonitrile Butadine Styrene (ABS)	top caps, wire managers, edgebainding				Recycled ABS Regrind	
Acrylic (PMMA)	modesty panels				Recycled PMMA Regrind	
High Density Polyethylene (HDPE)	NA				Recycled HDPE Regrind	
Low Density Polyethylene (LDPE, LLDPE)	NA				Recycled LDPE Regrind	
Nylon (PA)	chair bases, casters, glides				Recycled PA Regrind	
Polycarbonate (PC)	tile clips				Recycled PC Regrind	
Polyethylene Teraphthalate (PET)	fabrics				Recycled PET Regrind	
Polypropylene-Polyethylene Copolymer (PP/PE)	base boot, spline connectors				Recycled PP/PE Regrind	
Polypropylene (PP)	seats, seat backs				Recycled PP Regrind	
Polystyrene (PS, EPS, HIPS)	NA				Recycled PS Regrind	
Polyvinyl Chloride (PVC)	side rails, gaskets, top cap inserts & ends, hinge, wire managers, edgebanding, T-mold				Recycled PVC Regrind	
Polyurethane Foam	seat & back cushions, arm pads			Actively recycled by foam manufacturers and recyclers into carpet padding.	Recycled Carpet Padding	
Metals - Ferrous (e.g. Steel, Iron)						
Steel	Panel Frame, Top Cap	Yes Notes: Structural integrity and material finish must be in good condition	Yes Notes: Strucural integrity must be in good condition	Actively recycled into raw ferrous metal ingot. Ferrous metals are easily seperable from other materials through shredding and magnetic seperation. Therefore, many metal recyclers will accept ferrous metals which contain small amounts of mixed materials (e.g. plastic, aluminum).	Recycled Steel Ingot	Off Grade Ferrous Ingot
Cast Iron	NA				Recycled Cast Iron Ingot	
Metals - Non-Ferrous (e.g. Aluminum, Stainless Steel, Zinc Die Cast, Brass)						
Cast Aluminum	NA	Yes Notes: Structural integrity and material finish must be in good condition	Yes Notes: Strucural integrity must be in good condition	Actively recycled into raw metal ingot. Non-ferrous metals are not seperable through magnetic seperation. Recycling value is improved with greater quantity and accurate material identificaiton (e.g. metal grade).	Recycled Cast Grade Aluminum Ingot	Recycled Off Grade Aluminum Ingot
Extruded Aluminum	Davies Custom Ethospace Topcaps				Recycled Extruded Grade Aluminum Ingot	Recycled Off Grade Aluminum Ingot
Stainless Steel	Chair Bases				Recycled Stainless Steel Ingot	Recycled Off Grade Ferrous Ingot
Zinc Die Cast	NA				Recycled Zinc Die Cast Ingot	Recycled Off Grade Zinc Ingot
Brass	Door Handles				Recycled Brass Ingot	Recycled Off Grade Brass Ingot
Textiles						
Natural Fabrics	Panel Skins,Seating cushions, Chair Arms	Yes Notes: Fabric must not be excessively worn, damaged, faded, or stained.	Yes Notes: Fabric must not be excessively worn, damaged, or faded.	Recycling possible into non-woven fabrics.	Recycled fibers into shoddy for use in non-woven products	Landfill Disposal
Polyester Fabrics	Panel Skins,Seating cushions, Chair Arms			Recycling possible into raw polymer.		
Mixed Fabrics	Panel Skins,Seating cushions, Chair Arms			Recycling possible into non-woven fabrics.		
Vinyl	Seating cushions, Chair Arms			Recycling possible only through extraction based processes.	Recycled PVC polymer through extraction based processing	
Wood / Biobased Materials						
Particleboard	Worksurface Core	Yes Notes: Substrate material must not be structurally damaged and surface finish must be in good condition	Yes Notes: Substrate material must not be structurally damaged	Not currently actively recycled due to process and economic limitations. Reuse or refurbishment are currently the best options for these materials. As a low value option, the energy content can be reclaimed in a designated waste-to-energy facility equipped with proper pollution control technologies.	Not Actively Recycled (Currently)	Waste to Energy
Medium Density Fiberboard (MDF)	Worksurface Core					
Plywood	Worksurface Core					
Hardwood	Desk frames, chair frames, worksurface core					
Cellulose Batting	Panel Innards	Yes	No			
Other						
Laminate	Worksurface finish material	Yes Notes: Surface must be in good condition	No	Not currently actively recycled due to process and economic limitations. Reuse or refurbishment are currently the best options for these materials. As a low value option, the energy content can be reclaimed in a designated waste-to-energy facility equipped with proper pollution control technologies.	Not Actively Recyled (Currently)	Waste to Energy
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