

case study

Project **Denver Public Schools,
Downtown Campus**
Location..... **Denver, CO**
Product..... **Ceiling Recycling Program**

the challenge:

With the adoption of its 2012 Sustainability Management Plan (SMP), Denver Public Schools (DPS) is challenging students, teachers, staff, and parents to practice an “ethic of sustainability” to help reduce the impact its 185 schools have on the environment.

A major focus area of the plan calls for measurable improvements in landfill diversion rates and reduced greenhouse gas (GHG) emissions from solid waste throughout the 87,398 student urban school system.

the solution:

When renovations began on a 14-story office building DPS was converting to a vertical campus in downtown Denver, school officials met with the contractor to set sustainability goals for the project. “Recycling and repurposing of the materials that came out of the building was probably the number one item on that sustainability list,” explains DPS Construction Project Manager Katheryn Zeeb.

A large part of the construction waste consisted of old ceiling tiles that had been removed from the building during renovation. The general contractor recommended that DPS recycle the old ceiling tiles through the Armstrong Ceiling Recycling Program. The program enables commercial building owners and contractors to ship discarded ceiling tiles from demolition and renovation projects to the nearest Armstrong plant as an alternative to landfill disposal. The discarded tiles are then used to manufacture new ceiling tiles. These new tiles become part of the Armstrong Ceiling-2-Ceiling product line.

Through its participation in the Ceiling Recycling Program, DPS recycled 131,571 square feet of used ceiling tiles, diverting roughly 67 tons of construction waste – the equivalent of about 6,579 tires – away from landfills.

By recycling the old ceilings, the school district was able to avoid the CO2 equivalent of nearly 30,000 kilograms of GHG – similar to not driving 244,722 miles in a car – and move closer to its long-term goal of zero waste schools.

“This recycling program has proven to be advantageous from so many different levels – from savings on container costs and landfill fees to stewardship of resources for future generations,” says DPS Construction Services Director James Allen. “It’s been a good experience. Now that we’ve done it once, we’ll continue to do it. We’re a school district and we are life-long learners.”



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