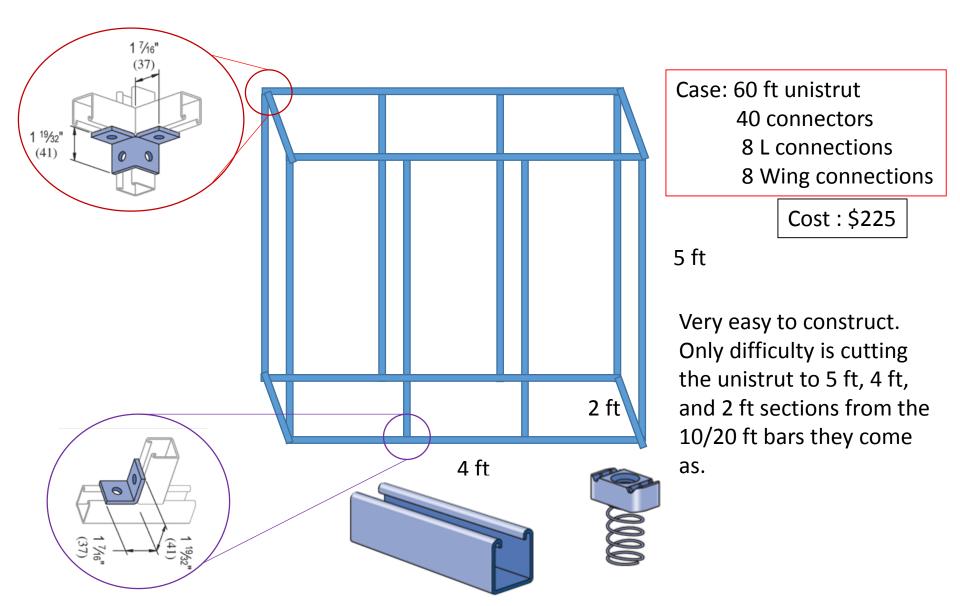
Straw Storage Estimates

Dan Ambrose 10/12/2015

Case for Straw Storage



Shelves for Straw Storage



Fits 60 shelves



Case: 60 shelves 480 clips 8 rails Cost : \$240

More time consuming construction.

Difficulties will be drilling into unistrut and attaching clips (glue?).

Do we want a rail on top of clip to allow board to slide out easier?

Shelves hard board 4' x 2' x 1/8 in.

5 ft rails

Storage Space



Easily fit 75 straws per shelf 60 shelves means 4500 straws per case

Case: 4500 straws \$465 + worktime ~10¢ per straw

5 shelves would house 22500 straws. Only takes up 5 x 11 ft² of floor space (could fit in storage room)

Straws take up 8 mm in tube

Unistrut order in bulk

Total needed for 5:

UNISTRUT	Needed: 300 ft unistrut 200 nuts and bolts 40 wing connectors 40 L connectors	Sold in: Bundle of 10 seperate 10 ft unistrut (100 ft) 50 nuts and bolts 50 wing connectors 50 L connectors
Shelves	Needed: 40 rails 2400 clips 300 Hard board shelf	Sold in: Sold separately Bundles of 12 Sold individually

Make sure the shelves work before getting unistrut in bulk.

Testing Shelves







Create a setup that mimics the case to hold up a couple shelves. Weigh straw in tube, put weight of 75 straws in center of board and wait a week.

Determine way to secure clips into the rail.