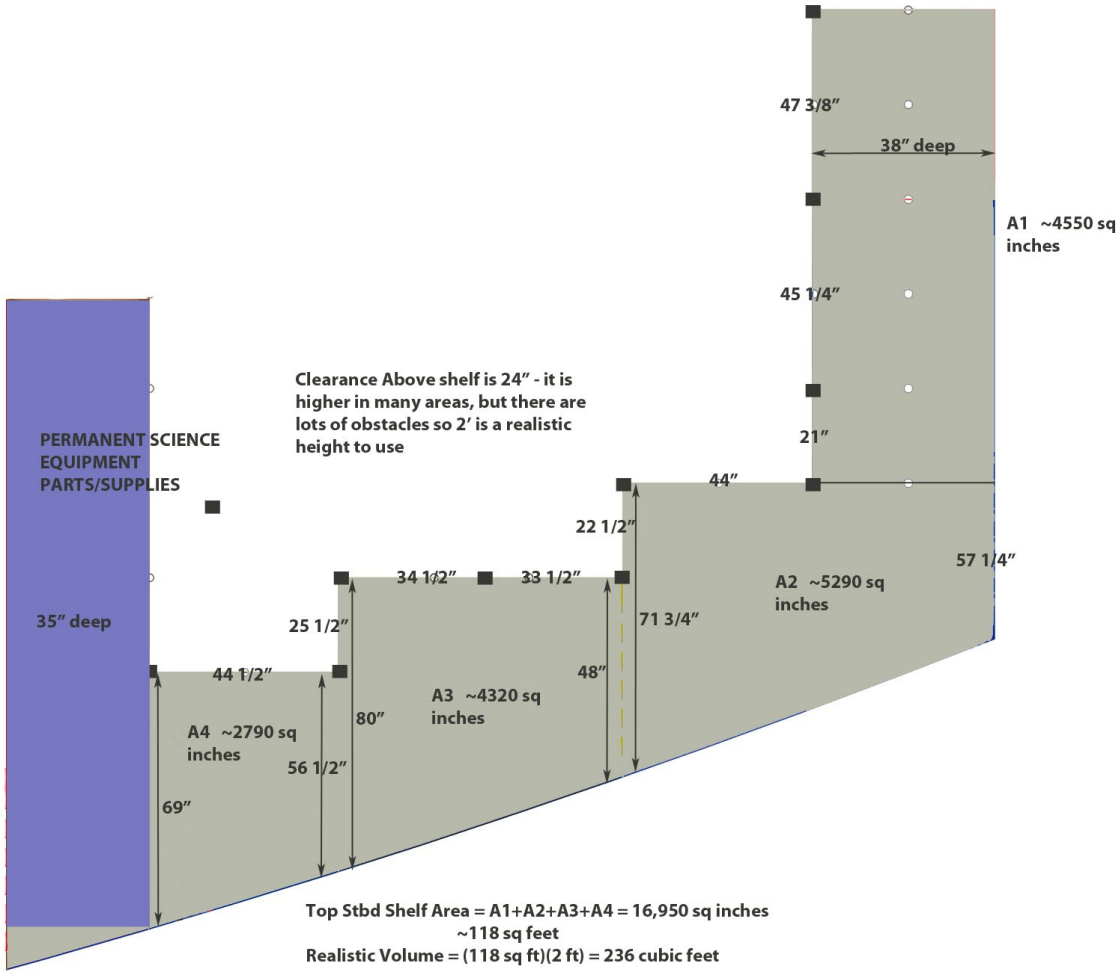
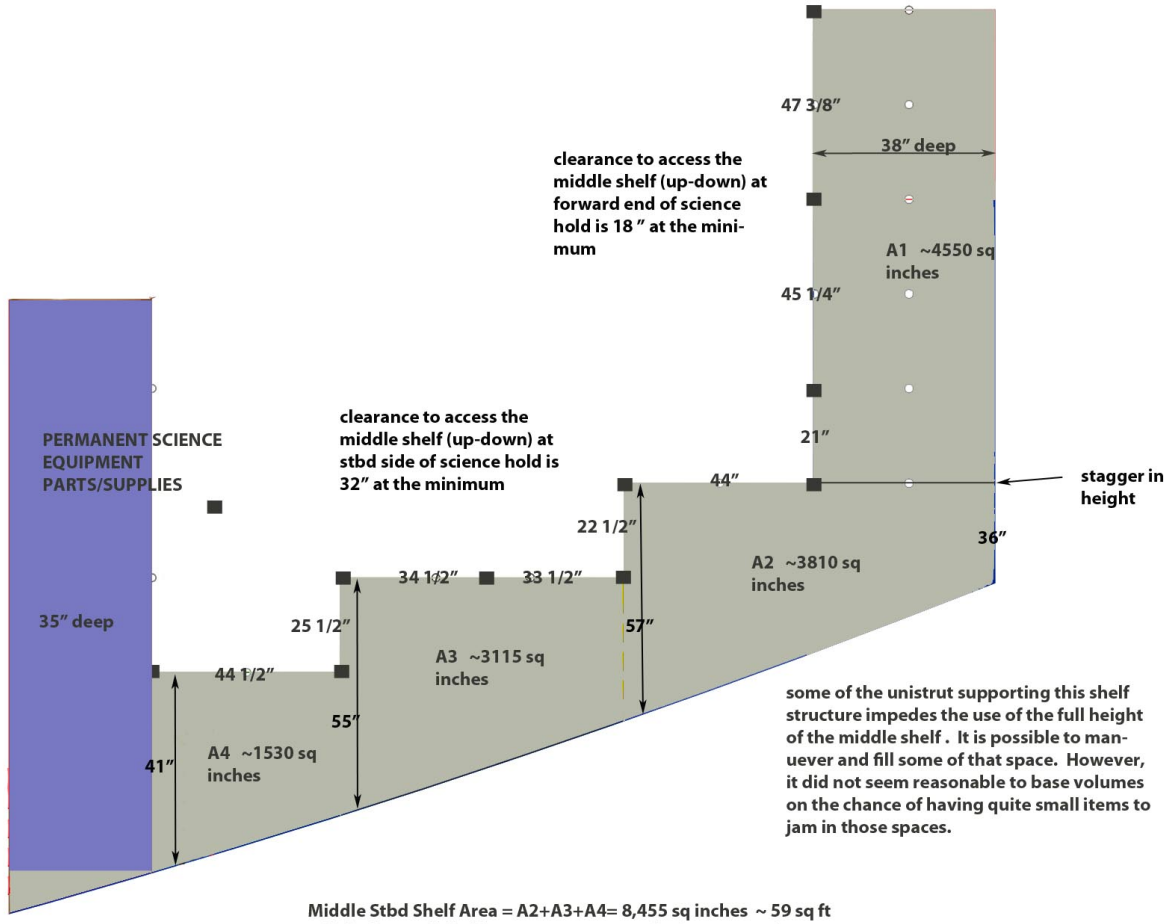
SCIENCE HOLD SHELFING SPACE

TOP STBD SHELF - SCIENCE HOLD



Top Stbd Shelf Area = A1+A2+A3+A4 = 16,950 sq inches
~118 sq feet
Realistic Volume = (118 sq ft)(2 ft) = 236 cubic feet

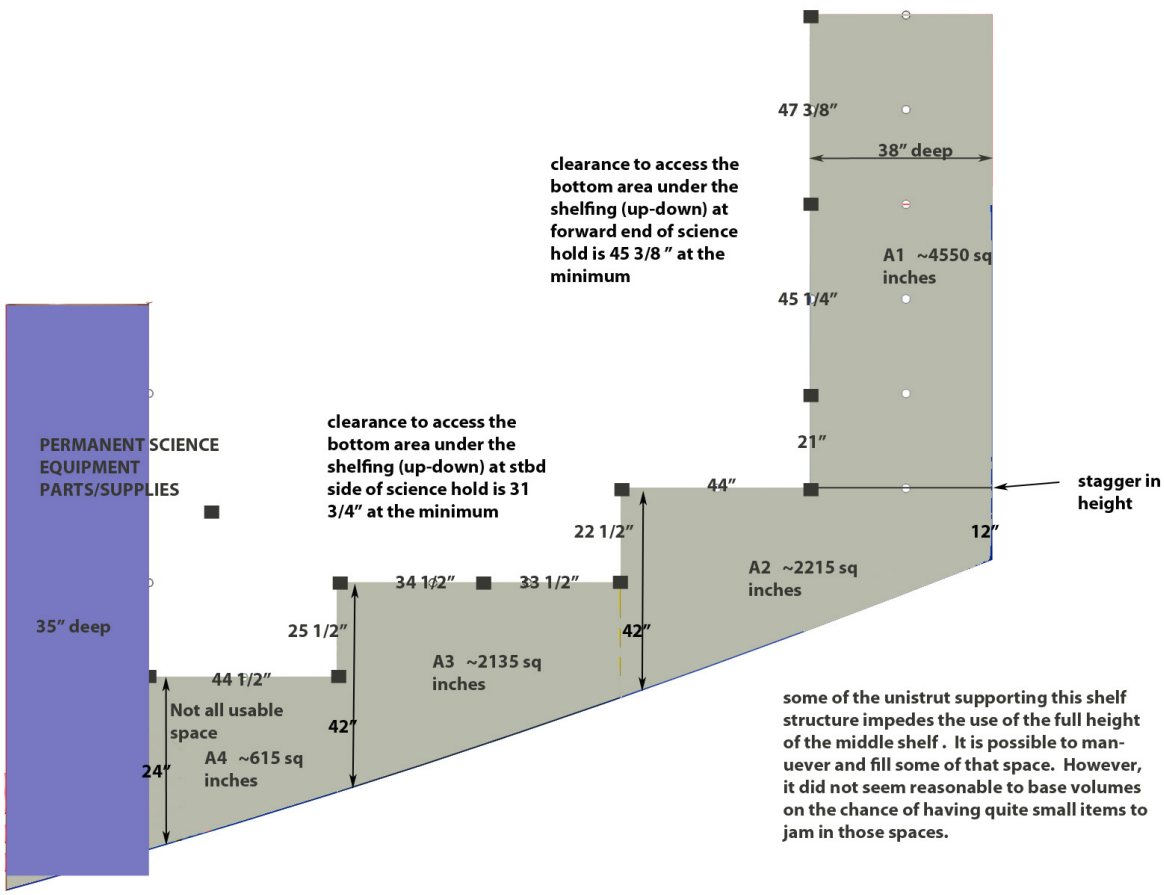
MIDDLE STBD SHELF SCIENCE HOLD



Middle Stbd Shelf Area = A2+A3+A4= 8,455 sq inches ~ 59 sq ft
Middle forward Shelf Area = A1 = 4550 sq inches ~ 31 sq ft

Realistic Volume = (59 sq ft)(2 2/3 ft) + (31 sq ft)(1 1/2 ft) ~ 200 cubic feet

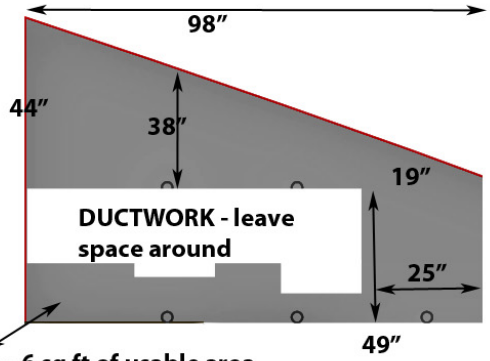
BOTTOM STBD SHELF (FLOOR) - SCIENCE HOLD



some of the unistrut supporting this shelf structure impedes the use of the full height of the middle shelf . It is possible to man-uever and fill some of that space. However, it did not seem reasonable to base volumes on the chance of having quite small items to jam in those spaces.

Middle Stbd Shelf Area = A2+A3+A4= 4,965 sq inches ~ 34 sq ft
Middle forward Shelf Area = A1 = 4550 sq inches ~ 31 sq ft

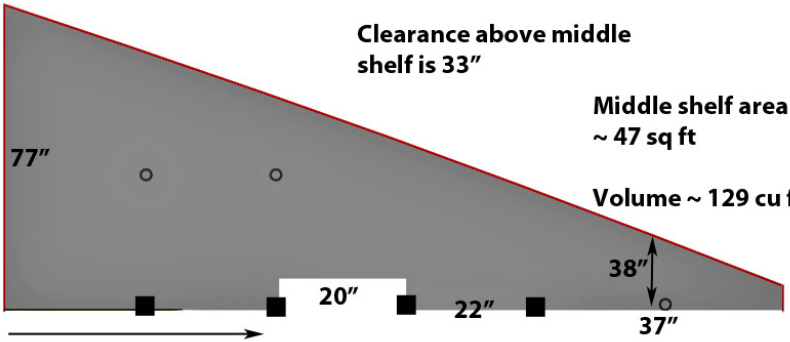
Realistic Volume = (34 sq ft)(2.65 ft) + (31 sq ft)(3.78 ft) ~ 205 cubic feet



maybe ~6 sq ft of usable area for thin, small items

Top Shelf Area = 4318 sq inches ~30 sq ft
overhead height is 41″ maximum with obstacles as low as 32″

Best averaging -> 90 cubic feet

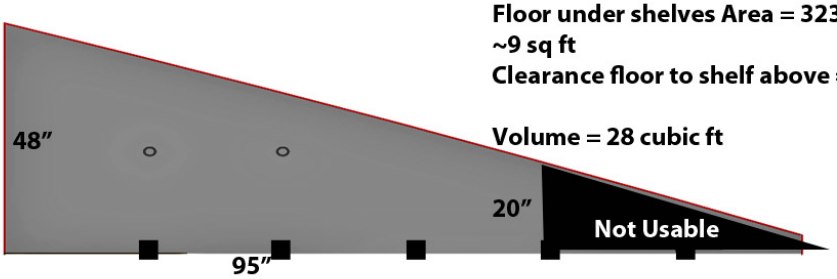


Clearance above middle shelf is 33″

Middle shelf area = 6785 sq inches ~ 47 sq ft

Volume ~ 129 cu feet

Access blocked by -80 freezer



Floor under shelves Area = 3230 sq inches ~9 sq ft
Clearance floor to shelf above = 38″

Volume = 28 cubic ft

Access blocked by -80 freezer

Total shelf volume = 888 cubic feet. It is important to recognize that only smaller items can go on the shelves. In some areas the package height is limited to 18". In some places there is more usable space above, but it takes finagling to utilize it.

This is just the shelves and the floor space directly under the shelves. In addition, there is about 28 sq feet of floor area where things can be piled up to reasonable heights (as long as securable). There is a pillar posing an obstacle there too.

SOME OBSTACLES:

FORWARD DUCTWORK

OVERHEAD UNISTRUT

POLE

POR SIDE – TOP SHELF DUCTWORK