



"When open, the big door creates a shaded area for working outside on hot summer days," says Rick Peterson, who has built more than 50 doors in the past year.



Door opens in 35 seconds. Lock valves and restrictors prevent the doors from closing in less than 30 seconds, even if system fails.

Hydraulic-Powered Door Opens In One Piece

Zero headroom loss when open, self supporting, no moving parts and no exposed joints are some of the reasons Rick Peterson has

built and sold more than 50 PowerLift Hydraulic Doors over the past year. Demand for the one piece, any-size doors has been growing since he made the first one for himself 11 years ago.

"I did a few for neighbors and other local people, but it really started taking off about a year ago," says Peterson of Lake Benton, Minn. "Once you've seen one in operation, you'll never go back to anything else. When they are open, they even create shade and shelter for working outside the building."

Peterson custom designs each door with prices ranging from \$4,000 for smaller doors and up to \$6,000. For the price, a buyer gets a personal visit from Peterson to measure and assess the building. Then he designs the door, builds and installs it.

"Every building is different," he says. "If a new building is going in, we will dig holes,

set the vertical square steel tubing posts and the building's frame posts next to each other and pour cement around both."

If he is adapting his door to an existing building, he will anchor a bolt plate to existing cement and weld posts to the plate. The posts will also be anchored into the structure.

In both cases, a rectangular header creates the frame for the door hinges. The door itself is constructed from 3 by 5-in. rectangular tubing for the frame and 3 by 2-in. tubing for the skeleton. Hydraulic cylinders mounted on the vertical posts simply push the hung door up and out.

"It's just one big panel, and it doesn't hang from the building like overhead or bifold doors do," explains Peterson. "It takes 35 seconds to open and 35 to close. There are lock valves and restrictors on the cylinders so it won't close faster than 30 seconds even

if the system fails."

Peterson only builds the door skeleton. Buyers are then free to insulate and cover with whatever material they prefer. "We screw wooden 2 by 4's to the skeleton so the buyer can attach tin," he says.

When the doors are open, they are unaffected by the wind, explains Peterson. As a resident of the Buffalo Ridge area, with reportedly the strongest winds in Minnesota, he has had ample opportunity to see the affect of high winds.

"I have only shut them down twice for wind in more than 10 years and that's because I heard storm sirens blow in town," he says.

Contact: FARM SHOW Followup, Rick Peterson, 115 E Benton, Lake Benton, Minn. 56149 (ph 507 368-9500; email: rickweld@tctel.com).

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Harold M. Johnson

Founder & Publisher Emeritus

Editor/Publisher

Mark Newhall (mark@farmshow.com)

Senior Editor

Bill Gegen (bill@farmshow.com)

Associate Editor

Ben Schleuss (ben@farmshow.com)

Contributing Editors

Mick Lane (mick@farmshow.com)

Janis Schole (jschole@west-teq.net)

Jim Ruen (edgcom@acegroup.cc)

C.F. Marley (ph 217 563-2588)

Office Manager

Anne Lash (anne@farmshow.com)

Circulation

Peg Nagel, Shelly Mende,
Mary Lunde (circulation@farmshow.com)

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Email: circulation@farmshow.com

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March-April, 2004

Cub Cadets Plow Up 46 Acres

We spotted this photo in a recent issue of Red Power magazine, a quarterly magazine with stories about anything made by

International Harvester

(www.redpowermagazine.com). The photo

was taken last fall by Steve Blunier on the

Travis Schweizer farm near Rockford,

Iowa. Schweizer invited folks to bring their

Cub Cadets to his farm and participate in a

"plow day." It was the sixth plow day

sponsored by the Ihcubcadet.com website,

which is an online resource devoted to Cub

Cadet equipment manufactured exclusively

by International Harvester. A total of 150

garden tractors showed up. They turned

under a total of 46.2 acres of soybean

stubble. The event also raised about \$800

for the local rural volunteer fire department.

"It drew a lot of interest. A lot of

people driving by on a nearby highway

stopped to look," says Schweizer.



A total of 150 garden tractors showed up last fall to turn over 46.2 acres of soybeans.

Quick & Easy Cattle Guard

"I built a cattle guard out of pressure-treated 2 by 4's, gravel and concrete blocks. It didn't cost much and was easy to set up," says David Beust, Clinton, Wash.

"The wood frame around the blocks measures 8 by 12 ft. and sits on 6 in. of clean gravel. There's a board between concrete blocks, with the entire perimeter banked with gravel. I installed it 6 months ago and so far no cattle have crossed it."

Contact: FARM SHOW Followup, David Beust, 6807 Holst Rd., Clinton, Wash. 98236 (ph 360 222-3030).

David Beust's 8 by 12-ft. cattle guard is made of concrete blocks held in place by a wood frame.

