

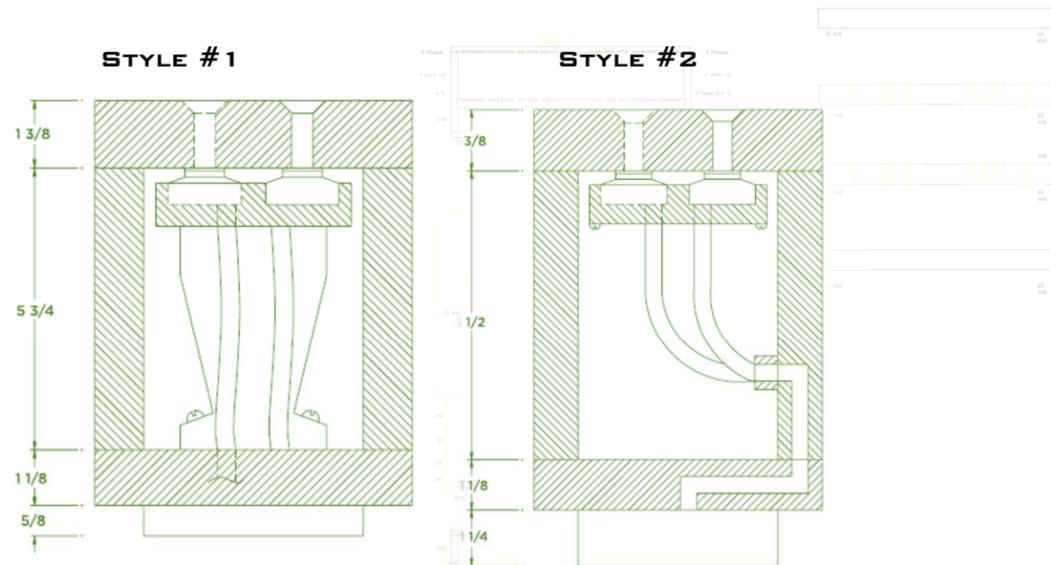


### ELECTRO-PNEUMATIC UNIT CHESTS

Unit chests are constructed in two styles with the action in the bottom bung. Side bung actions can be provided. Primaries are recommended for all toe holes larger than 1/2". Unit Chests will operate on wind pressure as low as 2".

**Style #1** has the pouch boards attached to and tubed to the bottom boards. This allows the entire action to be removed with the bottom board.

**Style #2** has the pouch rail attached to the top board and tubed to the side rail. The bottom board with magnets and primaries is then removable separately.



### 601 UNIT CHESTS

Unit chests utilizing the reliable Reisner 601 Direct Action Magnets are individually scaled to your requirements, complete with center-spotted rackboards and actions installed. These chests can be provided with counter-bored or cross channel holes. All 601 chests are wired with 10 feet of free cable to either a spreader, junction or connector. The bottom of the chest can be a plain bung, lift out panels or a schwimmer with or without a tremolo pneumatic. These chests are an economical alternative that provide a highly versatile form of chest construction.

### BORING SCHEDULE

OSI pipe hole and pouch hole schedule for lower wind pressure applications (2" to 4-1/2" WP)

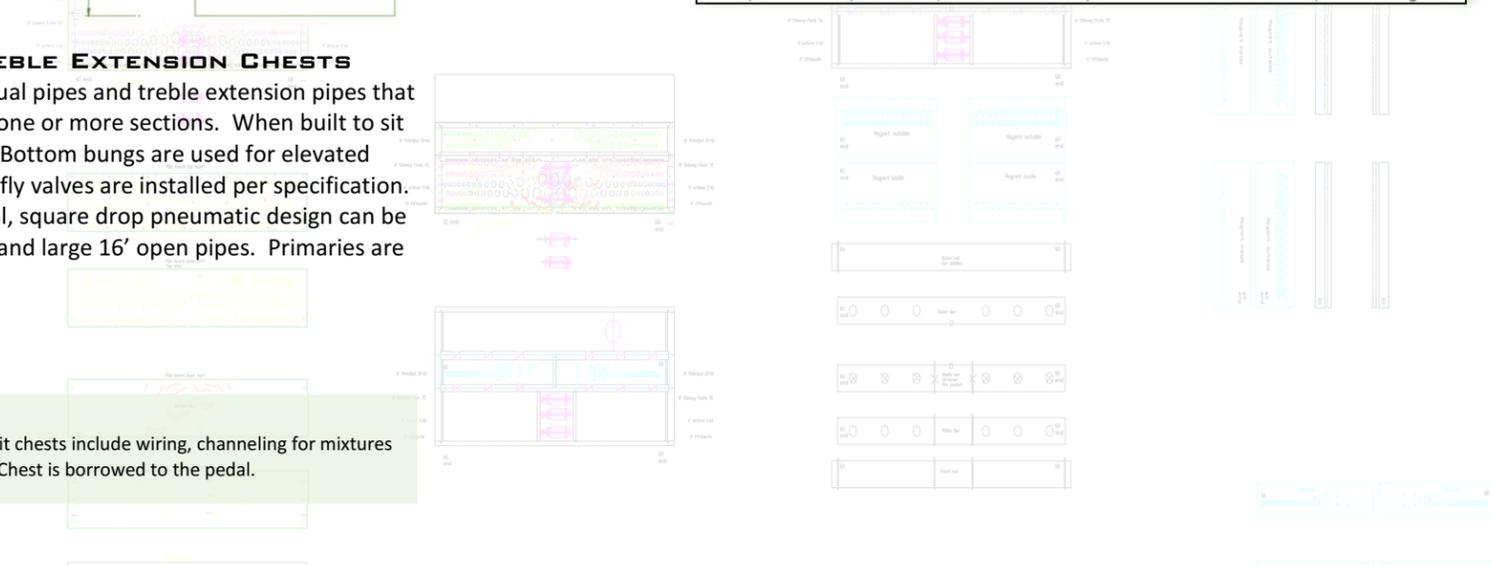
Style #1 OSI		Boring Schedules				
Pipe Hole	Pouch Cavity	Valve Size	Leather Size	Spring Size	Tube	Primary
3	6	3-3/4	7-1/2 x 7-1/2	20	5/8	5/8
2-3/4	5 1/2	3-1/2	7 x 7	20	5/8	5/8
2-1/2	5	3-1/4	6 x 6	20	5/8	5/8
2-1/4	4-3/4	3	5-3/4 x 5-3/4	20	5/8	5/8
2	4	2-1/2	5 x 5	20	5/8	5/8
1-3/4	3-1/2	2-1/4	4-1/2 x 4-1/2	18	5/8	5/8
1-5/8	3-1/2	2-1/4	4-1/2 x 4-1/2	18	5/8	5/8
1-1/2	3-1/4	2	4-1/4 x 4-1/4	18	5/8	5/8
1-3/8	3-1/4	2	4 x 4	18	5/8	5/8
1-1/4	3	1-3/4	4 x 4	18	5/8	7/16
1-1/8	3	1-3/4	3-1/2	18	5/8	7/16
1	2-3/4	1-1/2	3	16	5/8	7/16
7/8	2-1/4	1-1/4	3	16	1/2	7/16
13/16	2-1/4	1-1/4	3	16	1/2	7/16
3/4	2-1/4	1-1/8	3	16	1/2	7/16
11/16	2-1/4	1-1/8	2-3/4	16	1/2	7/16
5/8	2	1	2-3/4	14	1/2	7/16
9/16	2	1	2-1/2	14	1/2	7/16
1/2	1-3/4	7/8	2-1/4	14	7/16	7/16
7/16	1-1/2	3/4	2-1/4	14	3/8	magnet
3/8	1-1/2	3/4	2-1/4	14	3/8	magnet

### OFFSET CHESTS AND TREBLE EXTENSION CHESTS

Chests for pedal stops, larger manual pipes and treble extension pipes that must be offset can be provided in one or more sections. When built to sit on the floor, a front bung is used. Bottom bungs are used for elevated mounting. For larger pipes, butterfly valves are installed per specification. Where wind consumption is critical, square drop pneumatic design can be utilized to satisfy the needs of 32' and large 16' open pipes. Primaries are not required for treble pipes.

### ADDITIONAL INFORMATION

Options available for Slider, Pitman and Unit chests include wiring, channeling for mixtures and unit actions where a stop on a Pitman Chest is borrowed to the pedal.



# WINDCHESTS SLIDER, PITMAN, UNIT, CUSTOM DESIGN AND ADDITIONAL SERVICES



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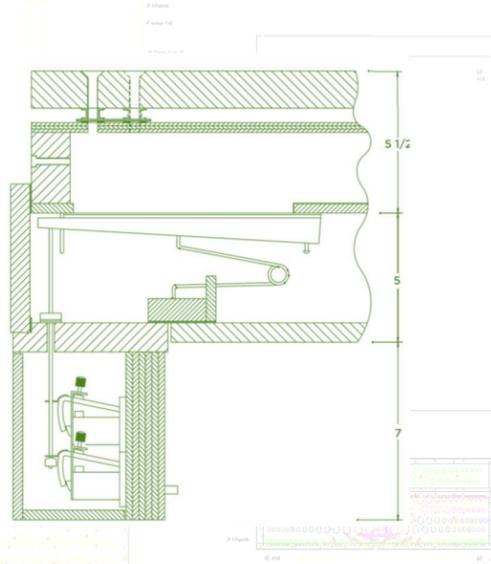
**WINDCHESTS**

Manual and pedal windchests are custom-crafted to the individual organ builder's requirements. Chests can be furnished as Pitman, Unit or Electro-Mechanical Unit. Mechanical, Electro-Mechanical or Electro-Pneumatic Slider windchests are also available.

All windchests are built from top-grade poplar and voidless plywood. Each is furnished complete with center-spotted rackboards, appropriate primaries and stop actions, per specifications. All pouches and primary pneumatics are covered with top-grade pneumatic leather and are treated for additional protection. All Electro-Pneumatic chests incorporate Reisner chest magnets. We can also provide complete wiring, building frame and pipe racking, as well as built-in schwimmers, to fit builder specification.

**ELECTRO MECHANICAL / MECHANICAL SLIDER CHESTS**

Slider chests are built from poplar, with voidless plywood used for the tables and toe boards. Telescopic seals and seal rings are employed along with phenolic sliders for stop action. For slider chests using wind pressure higher than 4-1/2" WP, a cross hatched table with brass stand offs are used in lieu of telescopic seals and rings. Stop action and note action can be mechanical, or electric with Laukhuff, SLIC or Heuss Motors. Schwimmers with pantograph springs can be built into the chests for wind control. Nominal toeboard width for an 8' or longer chest is 5-1/2" per stop.



**ELECTRO-PNEUMATIC SLIDER CHESTS**

The OSI electro-pneumatic pallet is influenced by the Blackinton concept. Its unique design allows fuller wind flow to the channel, while maintaining the speech characteristics of the traditional hinged pallet. Each single note action can be removed without tools for cleaning the pallet face, and no special techniques or materials are required for releathering. Pallet access is from the bottom, saving valuable walkboard space. The use of standard Reisner chest magnets reduces the electrical load and eliminating the need for heavy duty keying. Nominal toeboard width for an 8' or longer chest is 5-1/2" per stop.

**ADDITIONAL INFORMATION**  
Slider Chests shown average 98 lbs. per stop. Maximum wind pressure for chests utilizing telescopic sleeve construction (shown) is 4-1/2" WP. Minimum wind pressure for Electro-Pneumatic Sliders is 2-1/2" WP. For higher wind pressure applications, tables can be cross-hatched and telescopic sleeve eliminated. Unit chests can be combined with Slider chest construction.



**MANUAL CHEST SHELLS**

Chest shells are custom-built to your provided drawings or with the assistance of approved drawings from OSI. All chest components can be provided from building frames and undrilled toeboards to shells with complete borings for you to sand, finish, and assemble.

Electro Mechanical Unit chest shells are custom-built without actions to accommodate the time-proved Resiner 601 Direct Action magnet or customer specified electro-mechanical note actions. Chest shells are supplied with pre-bored toe boards, center spotted rackboards and plain bottom boards. Finished per instructions or unfinished, they are ready for installation of actions. Schwimmers and tremolo pneumatics are available.

**RELEATHERING**

Releathering services are available for manual and pedal pouches, pneumatics, tremolos, reservoirs, swell motors and all other actions. Releathering includes the complete replacement or restoration of the action components. When necessary, Pitman valves and valve wires are completely replaced when deemed unreliable.

**ADDITIONAL CHEST SERVICES**

Additional services are available to minimize work at the job site. These include: bored rackboards furnished per instructions. All pipes furnished by OSI can be racked or your pipes may be supplied to OSI for racking.

Mixture toeboards as a default are common channel.

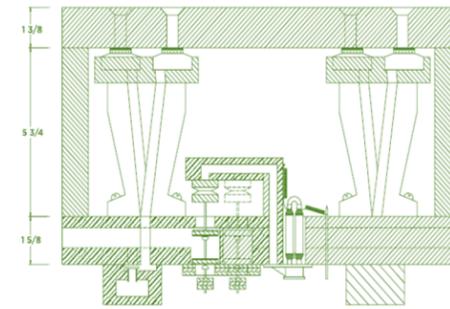
Upright supports with scalloped or straight racks recommended for 8' and 16' zinc, reed, or wood pipes on both offset and manual chests.

Chest wiring with specified free cable lengths terminating in spreaders, junctions or connectors installed per instructions. Default length of cable is 10 feet.

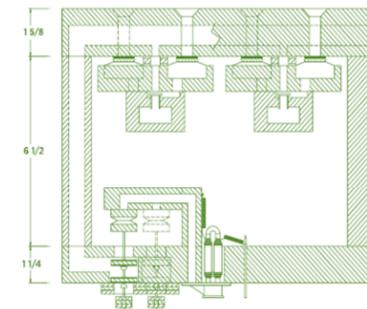
Building and floor frames, scallop/sky racks for one or more chests are constructed to drawings or instructions. Passage boards and organ ladders complete the package.

**PITMAN CHESTS**

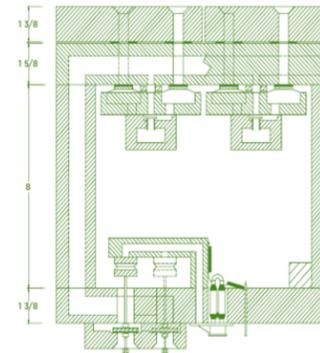
Pitman Chests are constructed in three common styles.



**Style #1** employs channeling in the bottom boards with the pouch boards attached. The Pitman rail is on the outside of the bottom board, allowing the entire action to be removed with the bottom board. Nominal toeboard width for an 8' or longer chest is 6-1/2".



**Style #2** has the primary channeling in the toeboard. The pouch boards are fastened to the toe board and the Pitman rail is, in turn, attached to the pouch board. The primary and stop actions are attached to the bottom of the chest. Built-in schwimmers can be used with this style. Nominal toeboard width for an 8' or longer chest is 7-1/2".



**Style #3** has the primary channeling in the top table of the chest. Each toeboard and rackboard are separate and removable for easy racking of pipes without disassembly of the chest mechanism. The pouch rails with pitman rail are fastened to the chest table. The primary and stop actions are attached to the bottom of the chest. The primary can be mounted on the side of the chest. Built-in schwimmers can be used with this style. Average width per stop on an 8'0" or longer chest is 6-1/2".

**ADDITIONAL INFORMATION**

Primaries will accommodate up to 10 stops. Two chests are required for 11 stops or more. Unit Chests may be combined with Pitman Chests. Pitman Chests shown average 110 lbs. per stop. Minimum recommended wind pressure for Pitman Chests is 2" WP. Where space is at a premium, a modified pouch schedule can be utilized depending on variables. Where primary speed is a concern, a double acting primary in the Skinneresque style may also be used.

