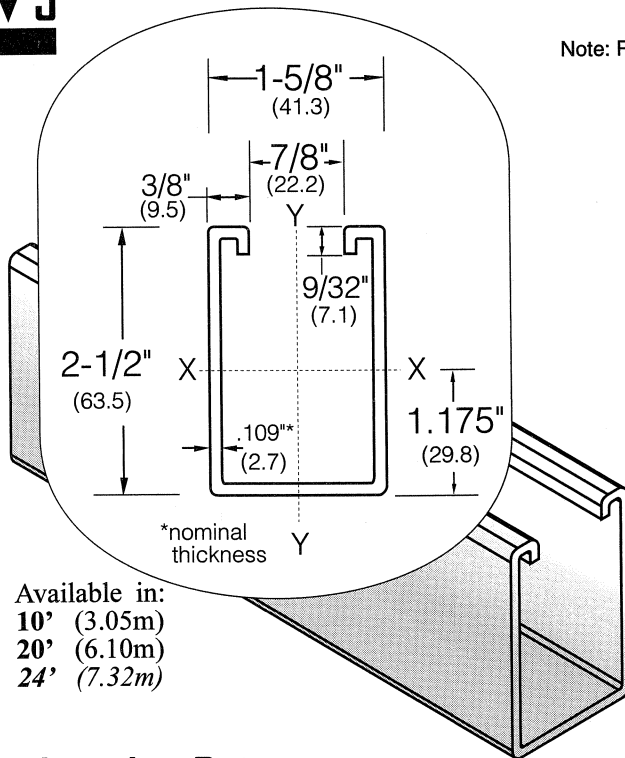




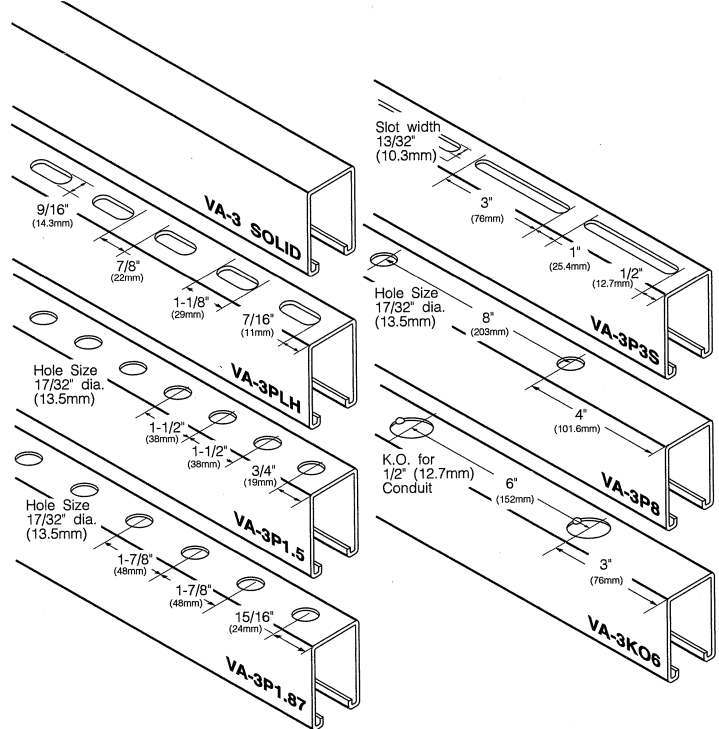
VERSABAR CORPORATION

Produced and stocked in the following finishes and materials:					
G-90 Galv.	Green	Aluminum	H.R.P.O.	SS 304	SS 316

Note: Perforated channel has a reduced loading capacity, see introduction pages 6 & 7.



Available in:
10' (3.05m)
20' (6.10m)
24' (7.32m)



Engineering Data

elements of sections			Sectional Area		X-X axis	Moment of inertia	Section modulus	Radius of gyration
VA-3			sq. in.	cm ²	Y-Y axis	Moment of inertia	Section modulus	Radius of gyration
12 ga.	Wgt. Per L.F. (Kg. Per M)	2.47 lbs. (3.67)	.727	4.69		.5203 In. 4 21.65 cm. 4	.3927 In. 3 6.43 cm. 3	.852 In. 2.16 cm.

beam loading data								column loading data							
Span or Unbraced Column Height	Maximum Allowable Uniform Loading		Deflection at Uniform Loading		Uniform Loading at Deflections				Maximum Allowable Loading at Slot Face K=.80	Maximum Allowable Column Load Applied at Center of Gravity					
in. (mm)	Lbs.	kN	in. (mm)		Span/240	Span/360			Lbs. kN	K=.65	K=.80	K=1.0	K=1.2		
24 610	3283	14.6	0.04	1.0	3283	14.6	3283	14.6	4492 20.0	9640 42.9	9245 41.1	8631 38.4	7935 35.3	7935	35.3
36 914	2193	9.8	0.09	2.3	2193	9.8	2193	9.8	3816 17.0	8563 38.1	7935 35.3	6789 30.2	5575 24.8	5575	24.8
48 1219	1643	7.3	0.15	3.8	1643	7.3	1432	6.4	3086 13.7	5812 25.9	5542 24.7	4782 21.3	3720 16.5	3720	16.5
60 1524	1313	5.8	0.24	6.1	1313	5.8	911	4.1	2612 11.6	4483 19.9	4231 18.8	3526 15.7	2810 12.5	2810	12.5
72 1829	1093	4.9	0.34	8.6	951	4.2	635	2.8	2198 9.8	3732 16.6	3485 15.5	2810 12.5	2275 10.1	2275	10.1
84 2134	943	4.2	0.47	11.9	703	3.1	471	2.1	1720 7.7	3253 14.5	2993 13.3	2346 10.4	1915 8.5	1915	8.5
96 2438	823	3.7	0.61	15.5	541	2.4	365	1.6	1391 6.2	2911 12.9	2602 11.6	2020 9.0	1655 7.4	1655	7.4
108 2743	733	3.3	0.78	19.8	422	1.9	281	1.2	1156 5.1	2645 11.8	2275 10.1	1776 7.9	1448 6.4	1448	6.4
120 3048	663	2.9	0.96	24.4	341	1.5	233	1.0	978 4.4	2431 10.8	2020 9.0	1577 7.0	1275 5.7	1275	5.7
144 3658	553	2.5	1.39	35.3	241	1.1	162	0.7							
168 4267	473	2.1	1.88	47.8	172	0.8	122	0.5							
192 4877	415	1.8	2.45	62.2	131	0.6	91	0.4							
216 5486	362	1.6	3.06	77.7	111	0.5	72	0.3							
240 6096	332	1.5	3.85	97.8	92	0.4	63	0.3							

NOTES

- Long spans may have to be braced to prevent rotation and twist.
- Beam loading data already includes the weight of the member. This weight will have to be deducted in order to arrive at the net allowable load said beam span will carry.
- Maximum allowable uniformly distributed loads are listed for simple spans consisting of a beam on two supports. If load is to be concentrated at center of span, multiply given load by 0.5 and corresponding deflection figure by 0.8.

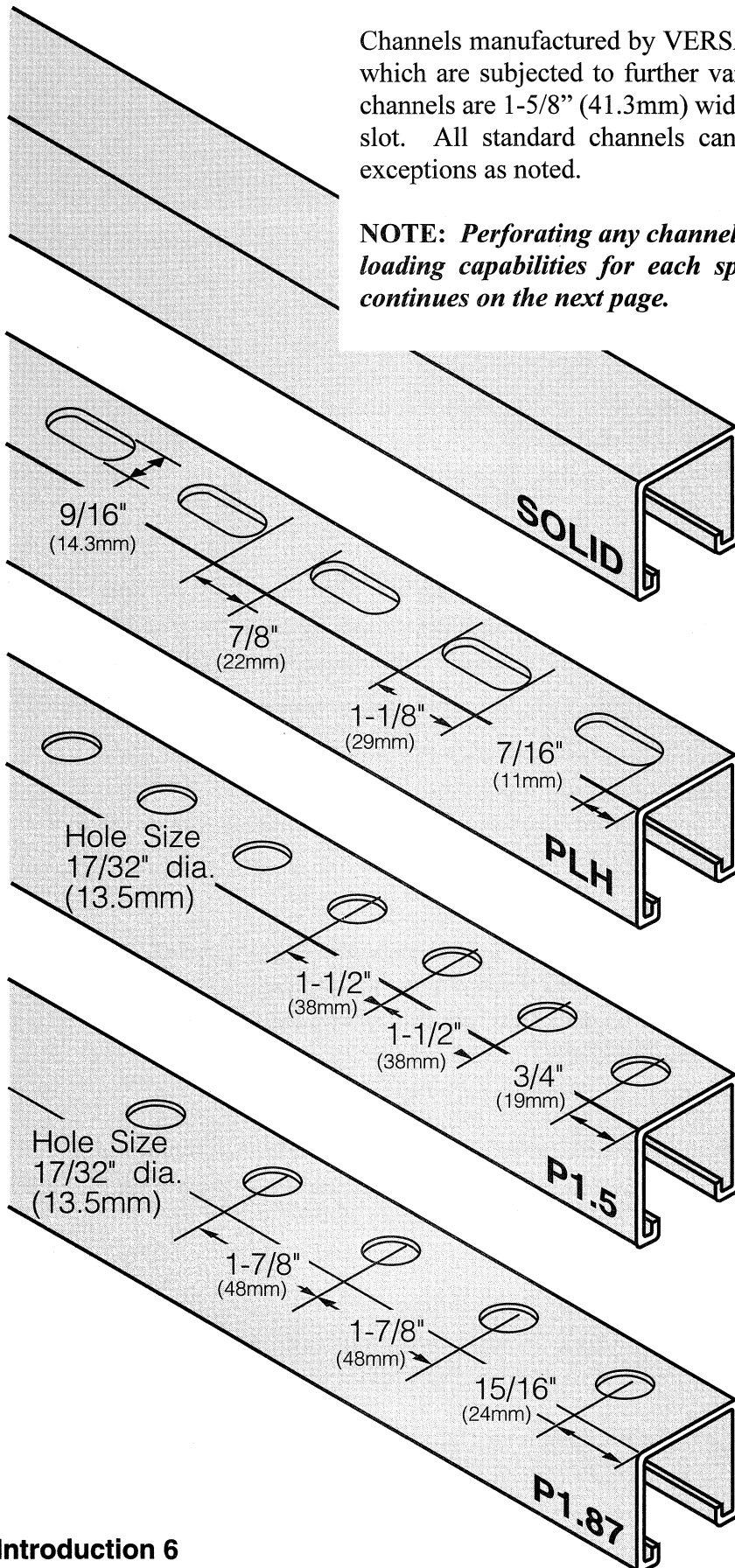


VERSABAR CORPORATION

SOLID & PERFORATED STYLES OF CHANNEL

Channels manufactured by VERSABAR are available in 12 different basic sizes which are subjected to further variation in gauge and depth. All standard size channels are 1-5/8" (41.3mm) wide, and have a .875" (22.2mm) wide continuous slot. All standard channels can be perforated as shown below with a few exceptions as noted.

NOTE: *Perforating any channel modifies its section modulus. A reduction in loading capabilities for each specific configuration is provided below and continues on the next page.*



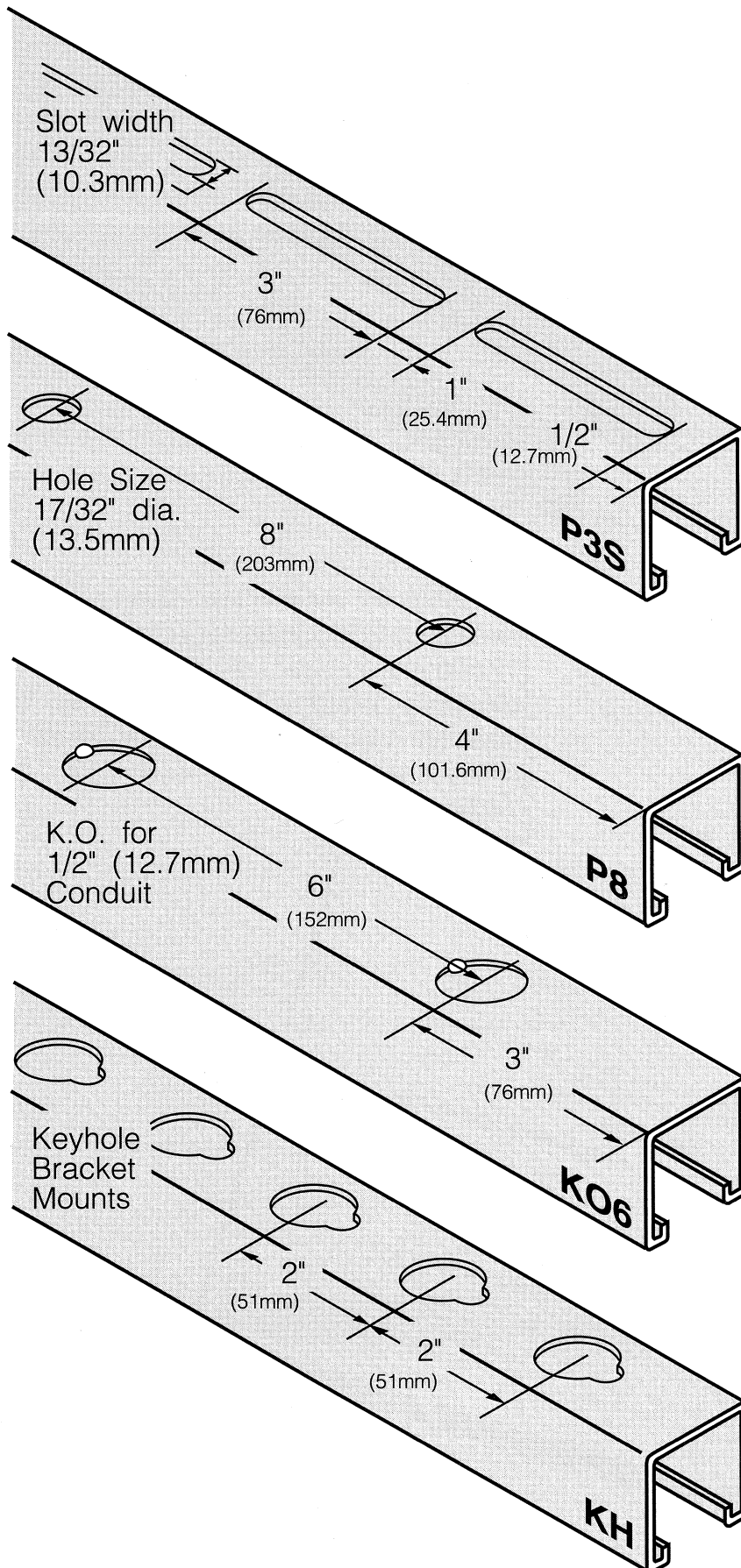
“Solid Back” Channels:
Perform at **100%** of
published loading capacity

“PLH” Channels:
Require a **15% reduction** in
published loading capacity.

“P1.5” Channels:
Require a **12% reduction** in
published loading capacity.

“P1.87” Channels:
Require a **10% reduction** in
published loading capacity.

VERSABAR CORPORATION
PERFORATED STYLES OF CHANNEL



"P3S" Channels:
Require A **15% reduction** in published loading capacity.

"P8" Channels:
Require a **5% reduction** in published loading capacity.

"KO6" Channels:
Require a **5% reduction** in published loading capacity.

Not available on channels which are 1" (25.4mm) deep or under.

"KH" Channels:
Require a **17% reduction** in published loading capacity.

Available on VA-1, 6, & 10 only