19-IN. RACK ANGLES

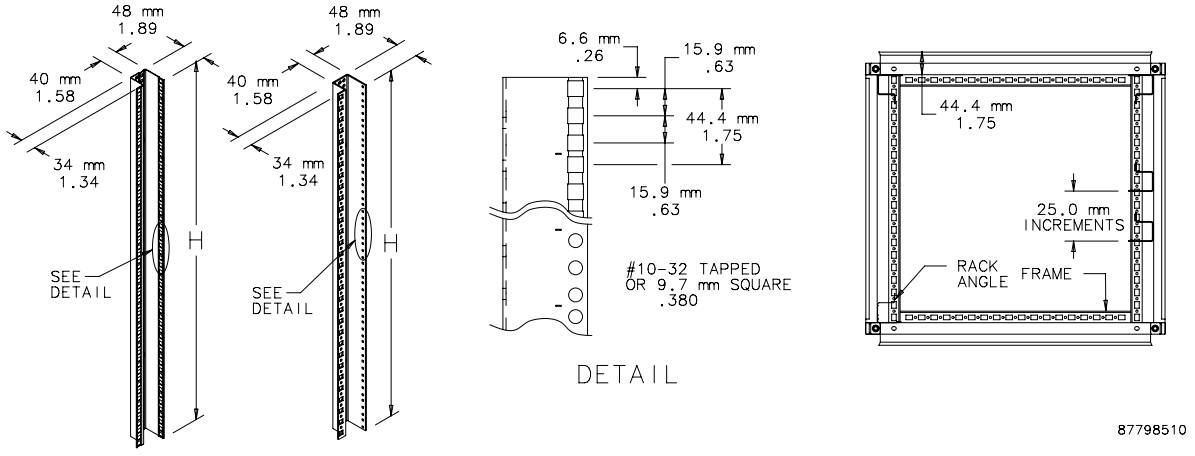


19-in. U-Shaped Rack Angles are available in square-hole and tapped-hole designs. Tapped Rack Angles are 12 gauge plated steel with 10-32 tapped holes. Square-Hole Rack Angles are 14 gauge plated steel designed to accept metric or English cage nuts. 19-in. Rack Angles are **Åyfe!ejsfdunz!joup!b!711. n n!xjef!** enclosure frame. To mount 19-in. Rack Angles in 700- or 800-mm wide frames, use Frame Reducing Brackets.

BULLETIN: P20

Catalog Number	Hole	H (mm)	H (in.)	Fits Frame	Rack Units
PRA197TH	Square	578	22.77	700 mm	13
PRA197TP	Tapped	578	22.77	700 mm	13
PRA198TH	Square	712	28.02	800 mm	16
PRA198TP	Tapped	712	28.02	800 mm	16
PRA1914TH	Square	1290	50.77	1400 mm	29
PRA1914TP	Tapped	1290	50.77	1400 mm	29
PRA1916TH	Square	1467	57.77	1600 mm	33
PRA1916TP	Tapped	1467	57.77	1600 mm	33
PRA1918TH	Square	1690	66.52	1800 mm	38
PRA1918TP	Tapped	1690	66.52	1800 mm	38
PRA1920TH	Square	1867	73.52	2000 mm	42
PRA1920TP	Tapped	1867	73.52	2000 mm	42
PRA1922TH	Square	2090	82.27	2200 mm	47
PRA1922TP	Tapped	2090	82.27	2200 mm	47

Vertical holes spaced in 1.75-in. (44.5-mm) increments.



23-IN. RACK ANGLES



23-in. Rack Angles are available **gps!uf!fdpn!bqqmjdbujpot/!Ui fz!Åu! ejsfdunz!joup!811. n n!xjef!gsbn f t!** or into 800-mm wide frames using Frame Reducing Brackets. Rack Angles are 12 gauge steel with 10-32 tapped holes. 23-in. Rack Angles are available with 1.00-in. vertical hole spacing.

BULLETIN: P20

Catalog Number	Hole	Height mm/in.	Fits Frame Height	Rack Units
PRA237TP	Tapped	584 22.99	700 mm or taller	13
PRA2314TP	Tapped	1270 50.00	1400 mm or taller	29
PRA2316TP	Tapped	1473 57.99	1600 mm or taller	33
PRA2318TP	Tapped	1676 65.98	1800 mm or taller	38
PRA2320TP	Tapped	1879 73.98	2000 mm	42

Vertical holes spaced in 1.00 in. (25.4mm) increments.

24-IN. RACK ANGLES

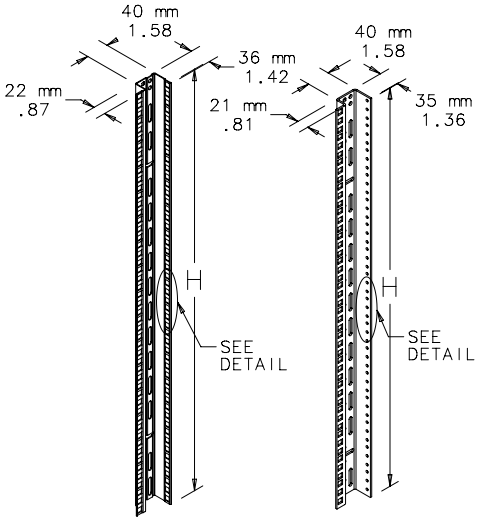


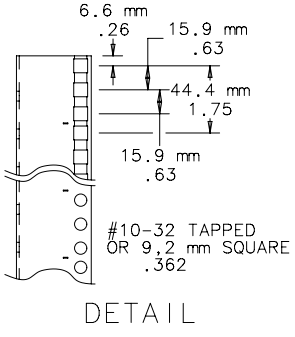
24-in. Rack Angles are available in both square-hole and tapped-hole designs. Tapped Rack Angles are 12 gauge plated steel with 10-32 tapped holes. Square-Hole Rack Angles are 14 gauge plated steel designed to accept metric or English cage nuts. **35.jo/!Sbdl!Bohmft!Âu!ejsfduz!joup!** 700- or 800-mm wide frames using Frame Reducing Brackets.

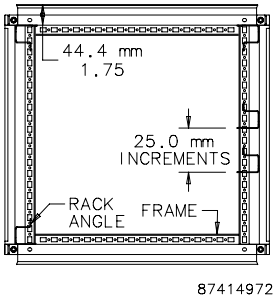
BULLETIN: P20

Catalog Number	Hole	H (mm)	H (in.)	Fits Frame	Rack Units
PRA247TH	Square	578	22.77	700 mm	13
PRA247TP	Tapped	578	22.77	700 mm	13
PRA2414TH	Square	1245	49.02	1400 mm	29
PRA2414TP	Tapped	1245	49.02	1400 mm	29
PRA2416TH	Square	1467	57.77	1600 mm	33
PRA2416TP	Tapped	1467	57.77	1600 mm	33
PRA2418TH	Square	1690	66.52	1800 mm	38
PRA2418TP	Tapped	1690	66.52	1800 mm	38
PRA2420TH	Square	1867	73.52	2000 mm	42
PRA2420TP	Tapped	1867	73.52	2000 mm	42
PRA2422TH	Square	2090	82.27	2200 mm	47
PRA2422TP	Tapped	2090	82.27	2200 mm	47

Vertical holes spaced in 1.75-in. (44.5-mm) increments.







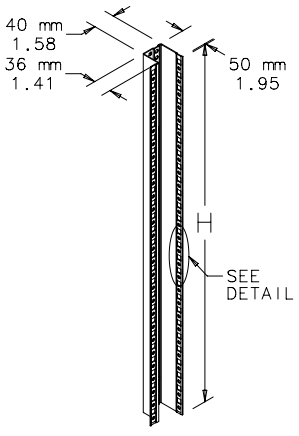
METRIC RACK ANGLES

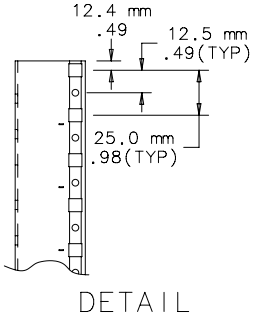
Metric U-Shaped Rack Angles are available with square holes **tqbdfe!wfsujdbmz!jo!36. n n!jodsfn fou!up!bddfqu!n fusjd!ps!Fohmjti!** cage nuts. These Rack Angles are built in accordance with standard **JFD!:28.3.2!up!bddpn npebuf!n fusjd!tvcsbdlt/!Uifz!bsf!tj{fe!up!Åu! ejsfdumz!joup!711. n n!xjef!gsbn ft/!Vtf!Gsbn f!Sfevdjoh!Csbdlfut!up!** mount in 700- or 800-mm wide frames.

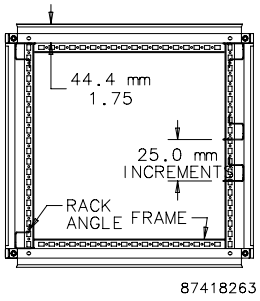
BULLETIN: P20

Catalog Number	H (mm)	H (in.)	Fits Frame Height	Rack Units
PRAM7	575	22.64	700 mm	22
PRAM14	1275	50.20	1400 mm	29
PRAM16	1475	58.07	1600 mm	33
PRAM18	1675	65.94	1800 mm	38
PRAM20	1875	73.82	2000 mm	42
PRAM22	2075	81.69	2200 mm	47

Vertical holes spaced in 25-mm increments.







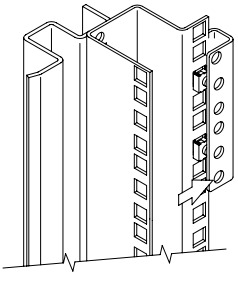
RACK ANGLE ADAPTER BRACKET



Rack Angle Adapter Brackets mount to PROLINE and PROLINE G2 Rack **Bohmft/!Ufz!csjoh!pvu!uif!sfbs!nfh!** mounting surface to allow traditional **Sbdl!Npvou!Tmjefs!)B27TM3V-!tpme! tfqbsbufnz*!up!cf!vtfe/!Gjut!ubqqfe!** or through-hole PROLINE and PROLINE G2 Rack Angles. Rack Angle Adapter Brackets come in a **rvbouju!pg!gpvs!boe!bsf!25!hbvhf! tuffm/!Ufz!ibwf!bqmbufe!Åojti/**

BULLETIN: P20

Catalog Number	Gauge	Use With
PBRAA	14	Rack-Mount Slides A16SL2U



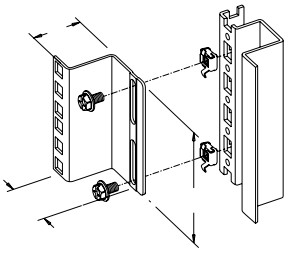
FRAME ACCESSORY BRACKET



Gsbn f!Bddfttpsz!Csbdlfut!npvou! ejsfdumz!up!uif!QSPMJOF!gsbn f!boe! are used in place of rack angles to mount rack accessories such as shelves and pull-out shelves. Frame **Bddfttpsz!Csbdlfut!bsf!gvsojti fe!** in sets of four and are 14 gauge plated steel. Mounting hardware is included.

BULLETIN: P20

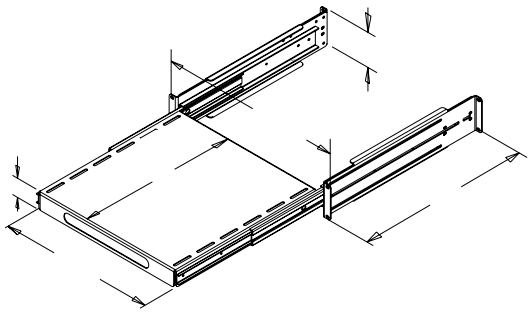
Catalog Number	Description	D (mm)	D (in.)
PFB19	19-in. EIA spacing	36	1.42
PFB23	23-in. EIA spacing	36	1.42
PFB24	24-in. EIA spacing	22	0.87
PFBM	Metric IEC 91721 spacing	36	1.42



RACK-MOUNT SLIDING SHELF

Rack-Mount, Sliding Shelf mounts to front surface of front and **cbdl!sbdl!bohnft/!Npefnt!Åu!2: .!ps!34.jo/!sbdl!tqbdjoh/!Bekvtut!up! Åu!nvujqnf.efquj!fodnptvsft!boe!sbdl!bohnf!qnbdfn fout/!Tifng!dbo! cf!vtfe!po!3.qptu!sbdl!ps!dbcjofu!xjui!gspou!sbdl!bohnft!ponz!cz!** reversing support bracket. Optional cable manager arm available. **25!hbvhf!tuffn!xjui!23!hbvhf!tvqqpsut!boe!SBM!:116!cnbdl!ps!SBM! 8146!hsbz!qnzftufs!qpxefs!qbjou!Åojti/!Mpbe!sbujoh;!261!nc/!)79/1! lh*!xjui!gpvs!dpsofs!npvojoh<!86!nc/!)45/1!lh*!xjui!uxp.qptu!ps!** front-rack-angle cabinet mounting.
Optional Cable Manager Arm is recommended to help control cable movement as shelf slides in and out.

BULLETIN: DACCY, P20



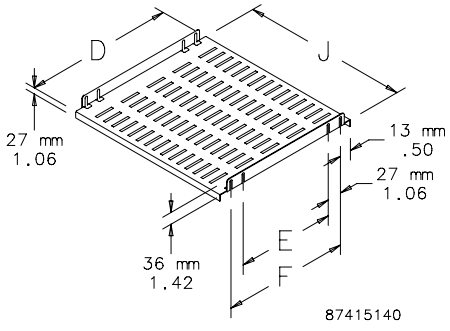
Catalog Number	D Max. (in.)	D Max. (mm)	L (in.)	L (mm)	J (in.)	J (mm)	Shelf Pullout (in.)	Shelf Pullout (mm)	Fits Rack	Rack Units	Color
P19SHP68B	37.40	950	16.72	425	16.20	412	17.00	432	19 in.	2	Black
P19SHP68	37.40	950	16.72	425	16.20	412	17.00	432	19 in.	2	Gray
P19SHP810B	41.30	1050	24.59	625	16.20	412	17.00	432	19 in.	2	Black
P19SHP810	41.30	1050	24.59	625	16.20	412	17.00	432	19 in.	2	Gray
P23SHP68B	37.40	950	16.72	425	20.20	513	17.00	432	23 in.	2	Black
P23SHP68	37.40	950	16.72	425	20.20	513	17.00	432	23 in.	2	Gray
P23SHP810B	41.30	1050	24.59	625	20.20	513	17.00	432	23 in.	2	Black
P23SHP810	41.30	1050	24.59	625	20.20	513	17.00	432	23 in.	2	Gray

FIXED SHELF

Gjyfe!Tifnwft!npvu!up!uif!gspou!boe!cbdl!sbdl!bohnft/!Uif!tifng!jt! 25!hbvhf!tuffn!xjui!bekvtubcnf!23!hbvhf!tuffn!tvqqpsut/!Bekvtubcnf! up!Åu!nvujqnf.efquj!fodnptvsft!ps!sbdl!bohnf!qnbdfn fout/!Foujsf! bttfncnzljt!Åojtife!xjui!SBM!8146!ufyuvsfe!njhiu.hsbz!qnzftufs! qpxefs!qbjou/!Mpbe!sbujoh!jt!261!nc/!)79!lh*/!

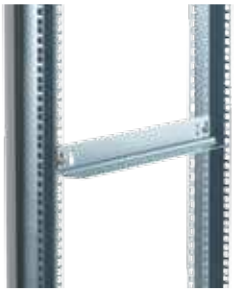
Rack accessories that are shorter than the enclosure depth can be mounted to rack angles or frame accessory brackets attached to grid straps. Order these items separately.

BULLETIN: P20



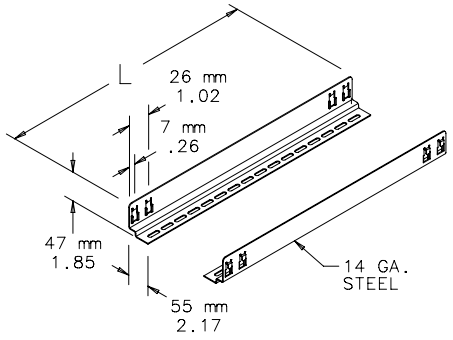
Catalog Number	D (mm)	D (in.)	E (mm)	E (in.)	F (mm)	F (in.)	J (mm)	J (in.)	Fits Rack Width
P19SH5	349	13.74	264.8	10.43	318.4	12.54	477	18.78	19 in.
P19SH6	449	17.68	364.8	14.36	418.4	16.47	477	18.78	19 in.
P19SH8	649	25.55	564.8	22.24	618.4	24.35	477	18.78	19 in.
P19SH9	749	29.49	664.8	26.17	718.4	28.28	477	18.78	19 in.
P23SH5	349	13.74	270	10.63	323.6	12.74	578.6	22.78	23 in.
P23SH6	449	17.68	370	14.57	423.6	16.68	578.6	22.78	23 in.
P23SH8	649	25.55	570	22.44	623.6	24.55	578.6	22.78	23 in.
P24SH5	349	13.74	264.8	10.43	318.4	12.54	604	23.78	24 in.
P24SH6	449	17.68	364.8	14.36	418.4	16.47	604	23.78	24 in.
P24SH8	649	25.55	564.8	22.24	618.4	24.35	604	23.78	24 in.
P24SH9	749	29.49	664.8	26.17	718.4	28.28	604	23.78	24 in.

GUIDES



Equipment Guides help support rack-mounted equipment during installation. Guides mount between two pairs of rack angles. Slotted **ipnft!bsf!qspwjefe!gps!wfsujdbm!ps!nbusbm!bekvtu fou/!Gvsojt i fe!jo! qbjst/!Hvjeft! i bwf!qnbufe!Åojt i /!Npvojoh! i bsexbsf!jodmvefe/!** Rack accessories that are shorter than the enclosure depth can be **npvoufe!up!sbdl!bohmft!vtjoh!Bekvtubcmf!Sbdl.Npvou!Sbjt!ps!Hsje! Tusbqt/!Psefs!u i f f!ju n t!tfqbsbufz/**

BULLETIN: P20



87415141

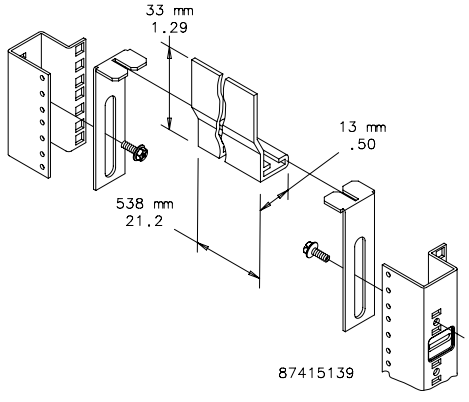
Catalog Number	L (mm)	L (in.)	Frame Depth (mm)	Frame Depth (in.)
PG4	218	8.80	400	15.75
PG5	319	12.56	500	19.68
PG6	420	16.54	600	23.62
PG8	621	24.45	800	31.49
PG9	823	32.40	900	35.43

FILLER PANEL FOR RACK ANGLES

Gjmmfs!Qbofm!bsf!vtfe!up!dpn qmfuf!Åmm!2: .jo/!sbdl! n pvojoh! tqbdft! bu!upq!boe!cpuupn !pg!QSPMJOF!epps!pq fojoh/!Fyusvefe!bmv n jov n ! Filler Panels are furnished in pairs and include mounting hardware.

BULLETIN: P20

Catalog Number	Description
PFP19RA	Filler Panel for Rack Angles



87415139

SCREW PACKAGE

Ux fouz!qnbufe!tdsfx t!bsf!jodmvefe!jo! fbdi !qbdl bhf/!Tdsfx t!buubdi ! rack panels to rack mounting angles. Available in #10-32, #12-24, N6!boe!N7/

BULLETIN: A80, DACCY

Catalog Number	Description	Pkg. Qty.
AS1032	10-32 x .75	20
ES1224	12-24 x .5	20
ASM5	Metric M5 x 20	20
ASM6	Metric M6 x 16	20
ASM6250	Metric M6 x 16	250

CAGE NUT PACKAGE

Ux fouz!qnbufe!dbhf!ovut!bsf!jodmvefe!jo! fbdi !qbdl bhf/!Bwbjmbcmf! jo!$21.43-!$23.35-!N6!boe!N7-!u i f f!dbhf!ovut!Åu!bmm!QSPMJOF!boe! PROLINE G2 rack angles with square holes.

BULLETIN: DACCY

Catalog Number	Description	Pkg. Qty.
P1032CN	10-32 thread	20
P1224CN	12-24 thread	20
PM5CN	Metric M5 thread	20
PM6CN	Metric M6 thread	20

RACK PANELS



Rack Panels mount to rack angles and can be used for mounting dpn qpofou!ps!bt!bcnbo joh!qnbuf/!Uif!sf!bwbjmbcnf!jo!bmvn jovn! boe!qbjoufe!tuffm/!Bmv n jovn !Sbdl!Qbofmt!bsf!236.jo/.uijdl!6163. l 43!bmpz/!Tuffm!Sbdl!Qbofmt!bsf!23!hbvhf!tuffm!boe!Åojtifo!SBM! 8146!ufyuvsfe!mjhiu.hsbz!qnzfttufs!qpxefs!qbjou/!Bm!qbofmt!bsf!åbu! with oblong holes positioned at EIA standard spacing. Mounting ibsexbsf!jt!tpme!tfqbsbufmz/!Uif!sfdpn n foefe!gbtufofs!qbdlbhf! lju!jt!FDOTN7/

BULLETIN: DACCY, P20

Catalog Number	Material	Rack Angle Size (in.)	Rack Units
P19RP1UA	Aluminum	19	1
P19RP1UP	Steel	19	1
P19RP2UA	Aluminum	19	2
P19RP2UP	Steel	19	2
P19RP3UA	Aluminum	19	3
P19RP3UP	Steel	19	3
P19RP4UA	Aluminum	19	4
P19RP4UP	Steel	19	4
P19RP5UA	Aluminum	19	5
P19RP5UP	Steel	19	5
P19RP6UP	Steel	19	6
P19RP6UA	Aluminum	19	6
P19RP7UA	Aluminum	19	7
P19RP7UP	Steel	19	7
P19RP8UA	Aluminum	19	8
P19RP8UP	Steel	19	8
P19RP9UA	Aluminum	19	9
P19RP9UP	Steel	19	9
P19RP10UA	Aluminum	19	10
P19RP10UP	Steel	19	10
P19RP11UA	Aluminum	19	11
P19RP11UP	Steel	19	11
P19RP12UA	Aluminum	19	12
P19RP12UP	Steel	19	12
P19RP16UA	Aluminum	19	16
P19RP16UP	Steel	19	16

Fastener Package

Catalog Number	Description
ECNSM6	Fastener Package, M6. Includes 8 cage nuts and screws.

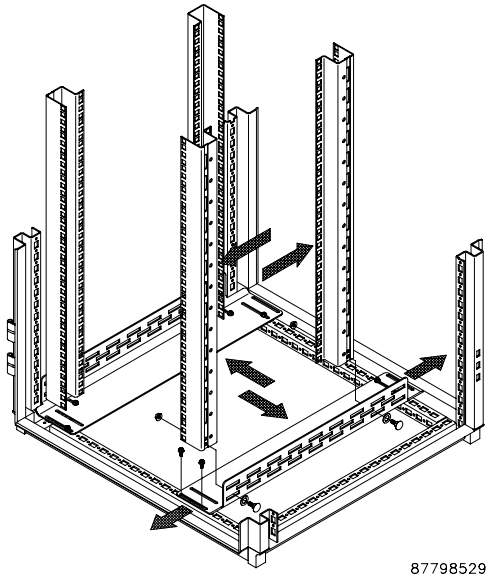
ADJUSTABLE RACK-MOUNTING RAILS



Npvoujoh!sbjmt!bmpx!sbdl!bohmft!up!cf!qptjujpofe!bozxifsf!xjuijo! uif!QSPMJOF!gsbnf/!Uif!fgu.up.sjhiu!bekvtubcmf!fou!qfsubjot!poz!xifo! the enclosure is wider than the minimum width required for rack angles. Includes two right-hand and two left-hand 12 gauge plated or painted steel mounting rails. Mounting hardware is included.

BULLETIN: DPY, P20

Catalog Number	L (mm)	L (in.)	Fits Frame Depth	Finish
PBARA6	511	20.11	600	Plated
PBARA8	711	27.98	800	Plated
PBARA9	811	31.92	900	Plated
PBARA9B	811	31.92	900	Painted RAL 9005 Black
PBARA10B	911	35.86	1000	Painted RAL 9005 Black
PBARA11B	1011	39.79	1100	Painted RAL 9005 Black
PBARA12B	1111	43.73	1200	Painted RAL 9005 Black

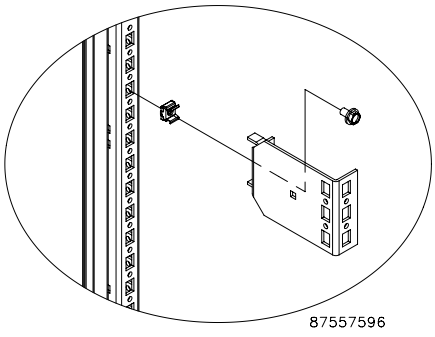


FRAME-REDUCING BRACKETS FOR FRAMES OR GRID STRAPS

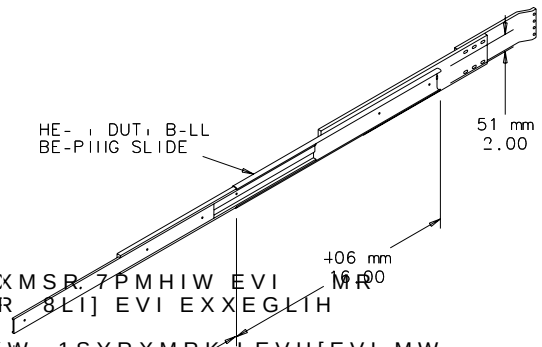
Gsbn f.Sfevdjoh!Csbdl fut!n pvou!ejsfduz!up!811.!ps!911. n n!xjef! QSPMJOF!gsbn f t!ps!up!hsje!tusbqt/!Dpowfsut!xjefs!gsbn f t!up!711. n n!xjef-!bmpxjoh!2: .jo/!sbdl !bohmf t!up!Åu-!ps!up!811. n n!xjef-! bmpxjoh!34.jo/!sbdl !bohmf t!up!Åu/!Dbo!cf!vtfe!up!mfgu.!ps!sjhiu.kvtujgz! the rack-mounted equipment. Furnished in sets of four. 14 gauge plated steel. Mounting hardware is included.

BULLETIN: P20

Catalog Number	Reduces Frame Width	W (mm)	W (in.)	Converts Frame Width
PRB50	50	50	1.97	From 700 to 600 From 800 to 700 mm
PRB100	100	100	3.94	From 800 to 600 From 800 to 700 From 700 to 600 mm
PRB200	200	200	7.87	From 1000 to 600 From 1000 to 800 From 800 to 600 mm



SLIDES



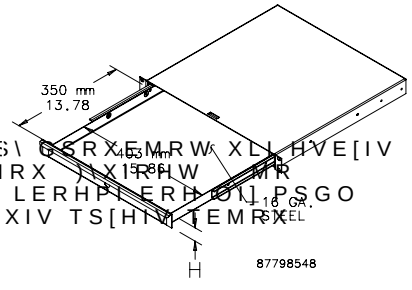
,IEZ] HYX] FEPP FIEVMRK TPEXIH XLVII WIGXMSR 7PMHIW EVI MR QQ PSRK ERH EPPS[MR QQ I\XIRWMSR 8LI] EVI EXXEGLIH to supports that mount between two pairs of rack-mounting ERKPIW XLEX LEZI EGGIWWSV] QSYRXMRK PIKW 1SYRXMRK LEVH[EVI MW JYVRMWLIH)UYMTQIRX MR QQ [MHI GER FI QSYRXIH between Slide assemblies installed on 19-in. rack angles. A pair of 7PMHIW GER WYTTSVX YT XS PF OK EX XLI I\XIRHIH TSWMXMSR [LIR PSEH MW HMWXVMFYXIH IZIRP] EPSRK XLI MR QQ 7PMHI PIRKXL 6IUYMVIW 6EGO %RKPI %HETXIV &VEGOIX XS ¼X 4630-2) Needs to be used with the Rack Angle Adapter Bracket (PBRAA, PBRAA19 or PBRAA24).

BULLETIN: P20

Catalog Number	Quantity
A16SL2U	2

RACK-ANGLE MOUNTED DRAWER

Catalog Number	H (mm)	H (in.)	Fits Rack Width	Rack Units
P19DR1US	43	1.69	19 in.	1
P19DR2US	88	3.47	19 in.	2
P19DR3US	132	5.20	19 in.	3

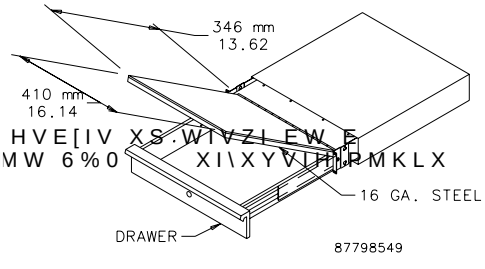


Steel drawer for 19-in. rack-angle mounting. Mounts to the front WYVJEGI SJ XLI VEGO ERKPIW -RXIKVEP WXIIP FS\ GSRXEMRW XLI HVE[IV ERH TVSXIGXW WYVVSYRHMRK MRXIVREP IUYMTQIRX)IX1RHIW MR QQ SR FEPP FIEVMRK WPMHIW *VSRX MRGPYHIW LERHPI ERH UI] PSGO *MRMWL MW 6%0 XI\XYVIH PMKLX KVE] TSP]IWXIV TS[HIV TEMRX Mounting hardware is included.

BULLETIN: P20

WRITING SURFACE

Catalog Number	Fits
P19WS	Drawer



% KEYKI WXIIP GSZIV QSYRXW SR XST SJ XLI HVE[IV XS WIZI EW E [VMXMRK WYVJEGI ERH HVE[IV GSZIV *MRMWL MW 6%0 XI\XYVIH PMKLX KVE] TSP]IWXIV TS[HIV TEMRX

BULLETIN: P20