

7 \$ % / (2) & 2 1 7 (1 7 6

, Q W U R G X F W L R Q

HH
RQQHFWHG
[HG (GJHV

S L Q J

Table of Contents, Page i

8 V H U 6 W D P S
0 L U U R U
3 D W W H U Q V
5 H F W D Q J X O D U 3 D W W H U Q
& L U F X O D U 3 D W W H U Q
8 V H U 3 D W W H U Q
7 U D Q V I R U P D W L R Q V
7 U D Q V O D W L R Q
5 R W D W L R Q
6 \ P P H W U \
\$ [L V W R \$ [L V
5 H F R J Q L] H
& K H F N 2 Y H U O D S S L Q J
6 D Y L Q J D V D ' ;)

+ \ G U R I R U P H G 6 K H H W 0 H W D O 3 D U W V
: H E
6 X U I D F L F) O D Q J H
- R J J O H
7 Z L Q - R J J O H
6 X S S R U W V 5 H G H I L Q L W L R Q & R U Q H U 5 H O L H I
6 X U I D F L F) O D Q J H 8 I I

F L F) O D Q J H 8 L H , G € K % 0 L Q O D W Q
bGP \$ [% P 0 p

6KHHW 0HWDO

0RVW SDUWV FDQ EH FUHDWHG E\ XVDQG WKHIDHW WVRLOV
 +RZHYHU WKHUH DUH WLPHV ZKHG GMKH HW KPH WIDOH WSPH WID
 ZRUNEHQFKHV DOORZ \RX WR FUHDWHG SIDULQV RWIGDH MDRQ PED
 WKHP HDVLHU WR ZRUN ZLWK ODIQ WDEHWL PXSOLLQJ \RXHUWH
 7KHUH DUH D IHZ ZRUNEHWKIDQ ZLWKL RQH HW RPHW DOWKH
 RSWLRQV DSSHDU LQ PRUH WKDQ RQH RQH HWHPHYDHO ZB URN
 7KLV FRXUVH ZLOO GLVFXVV DOORW DOKHRSJQL DQG IRKHGWL
 +\GUR IRUPHG ZRUNEHQFKHV

:DOO RQ (GJH

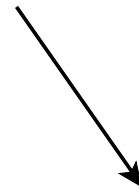
7KLV RSWLRQ FUHDWHV D ZDOO RQ DQ H[LVWLQJ HGJH

Sketch Based

Profile 6SHFLILHV WKH G/NIRWFKK WFS UERH LXO/HH RI WH

Angle 6SHFLILHV WKH DQJOH RU URWDWLRQ RI

6SHFLILHV WKH DQG VHOHFW WKH HGJHLSZHQHGJH R/ZFDQ EH
Automatic GHVLUHG



6HWTWKWROU 7KH KHLJKW ZLOO EH PHDVXUHG IURP WK
WKDW WKH VHOHFWHG HGJH EHQJVV WR

6 HWHWgkHWR 7KH KHLJKW RI VZ RHL Q B K O VZILLORP BHKW ERWWRP
RULJLQDO ZDOO

7XUQ RWithBkH HRSWLRQ DPeGw HOKHFZDOO VKRXOG DSSHDU DV
'HSHQGLQJ RQ KRZ WKH RULJLQDOWKHLQDOgk VRGHWKH ZDOO ;
H[WUHPLWLHV FRXOG EH VZLWFKHG

.H\ LQ RgH OskHLQ Lwking Geometry VHFWZ R OHIW OLPLW RI W
QHZ ZDOO ZLOO VWRS LQFKNte: Edrl Rse drectioh may be RI WKH
opposite depending on how you created the sketch for the initial wall.

6 H O Y e s D / Q G P r e v i e w N D J D L Q K H Z D O O V K R X O G D S S H D U D V V K R Z Q
L Q F K H V I U R P W K H H G J D e f a u l t R e d R a s S R O G D W J Z D R S W e t H F L I L H G L Q
Metal Parameter.1

& K D Q J I n c W a t e r W R D Q P r e v i e w O T H E R W Z D O O V K R X O G D S S H D U D V

7 XU QWRB Bend DQG P Preview N 7KH ZDOO VKRXOG ORRN OLNH WKI
GHILQHG E\ WKH VKHHW PHWDO SDUDPHWHUV

6 HOHF5M YKHU\ H 3 RLVFLWL B Preview OLFN 7KH ZDOO VKRXOG DS
VKRZQ

6 H O H F 5 M Y W K U H H 3 R L V F L W Q L B Q D L Q K D Q G F O K I F N Z D O O L V F U H D W H G

6 D Y H D Q G F O R V H W K H G R F X P H Q W

&RUQHU 5HOLHI

7KLV RSWLRQ FUHDWHV FRUQHU UHOLHIV ZKHUH WZR EHQG

2SHQ WKH &RUQHGRFHQWH SDUW FRQVLVWV RI WKUHH Z
EHQGV EHWZHHQ WKH ERWWRP ZDOO DQG VLGH ZDOOV

6LQFH QR FRUQHU UHOLHI KDV EHRQKOHG WKH \$7, \$UQHUV
FUHDWLQJ WKH WZR EHQGV 7KH UHVXOW LV XQGHVLUDEO

CATIA Sheet Metal Design

6HOHFW WKH WZR EHQG IDFHV VKRZLQ VFKHO RZH WRHG HILQH WK

6HWRWVHW R DOG FOLHFRUQHU UHOLHI LV FUHDWHG

6 H O H F W O W K B Q L F R Q 7 K H S D U W L V X Q I R O G H G

6 K R S Ketch.2 I U R P W K H V S H F L I L F D W L R Q W U H S O I D F H W K H F L U F X O
D V T X D U H S U R I L O H

' R X E O H C o r n e r R e l i e f 1 L Q W K H V S H F L I L F D W L R Q W U H S O I D F H W K H F L U F X O
D S S H D U V

6 H O H F W O W K B Q L F R Q C o r n e r R e l i e f Z L Q G R Z D S S H D U V

6 H O H F W O W K B Q L F R Q

& O L F N P r o f i l e W I K H O G D S S H D U V S K E T C H 2 I U R P W K H V S H F L I L F D W L R Q W U H S O I D F H W K H F L U F X O

6 H O O K F W 7 K H F R U Q H U U H O L H I L V F U H D W H S K e t c h . 2 W D L W K X H V L Q J W K H
W K D Q D F L U F O H

+ L S k e t c h . 2 W K H Q V H O O H F W Q M K B Q 7 K H S D U W L V X Q I R O G H G D J

6 H O H F W O V K 8 Q L F B Q D J D L Q K H S D U W L V I R O G H G
< R X Z L O O X V H W K L V P R G H O I R U W K H Q H [W H [H U F L V H

&RUQHU

7KH &RUQHU WRRO LV PXFK OLNH WKH, WURXWIGUJRIWQFGV
VKHHW PHWDO SDUWV

6HOHFWRUWKHURQ Corner ZLQGRZ DSSHUV

Edges

6SHFLILHV WKH HGJHV WKDW DUH WR

Radius

6SHFLILHV WKH VL]H RI WKH FRUQHU

6HOHFW WKH HGJHV VKRZQ EHZ



6 HWRWIKS HW R D QIG FØLHF RRGHO DSSHDUV DV VKRZQ

'HOBWER.1IURP WKH VSHFLKLFØWLBQ XWUHMVKH VDPH PRGHO I

+ \GUR IRUPHG 5HYLHZ ([HUFLVH

7KLV H[HUFLVH ZLOO UHYLHZ WKH WDOHHGDBMRUPLFGQV
ZRUNEHQFK <RX ZLOO XVH WKHP D'ORQJZWRKORWRWR*EX
SDUW EHZ

2SHQ 6WKH + \GUR IRUPHG 5HYLHZ WVKRXOG DSSHDU DV V
ZLOO XVH WKH H[LVWLQJ ZLUHIUDPH JHRPHWU\ WR FRPS

6HOHFVKHWH 0HWDO 3DFURCPHWSKHM Metal Parameters ZLQGRZ
DSSHDUV

6HWTMkles WR Band mksWR WKKQ VHOHFW

6HOHF:WEVKRQ Web ZLQGRZ DSSHDUV

6HOHFkylanekURP WKH VSHFLILFDWSupport WUH WWRZOMHEILQH W
ZLOO VHOHFW PXOWLSOH ZLUHIUDPH HOHPHQWV WR GHII

6 H O H 5 / plane K H

6 H O H F V Z H W H S H R Q 7 Swept Surface Definition Z L Q G R Z D S S H D U V

6 H W P M R L Q D Q G S W R H draft direction 7 K L V V X U I D F H
Z L O O E H D W D G H J U H H D Q J O H W R W K H Z H E

6 H O S H W 1 I R C Guide curve 1 D Q G W K H [\ S D R a f t D i r e c t i o n R U W K H



6 H W A M K M R Length 1 W R L e g g e W R W K O K 7 K H O V X F U W D F H
V K R X O G D S S H D U D V V K R Z Q

7 K H V H W Z R V X U I D F H V Z L O O D F W D O W H M K H V X S S R U W V I R U W K

0 D N H P a r t B o d y W K H L Q Z R U N R E M H F W

6 Z L W F K W R W K H 6 K H H W 0 H W D O + \ G U R 6 R U P D F G F Z R O N Q H K F K D
L F R Q 7 S t r i c t F l a n g e Z L Q G R Z D S S H D U V

6 ZLWFK EDFN WR WIGHU B KIRH W HGH Z B D O N E H P a r t B o d y Q W K P I D N H W K H
LQ ZRUN REMHFW

6 HOHFVX UW B FLF) O F R Q J H 7 S k i n f l a c i c F l a n g e Z L Q G R Z D S S H D U V

6 HOHFVW WKH B a s e F e a t u r e D Q W K W K H V S O L W V X U I D S u p p o r t Q W K H U L J K
Geometry 1RZ RQO\ WKH HGJH WKDW LQ W K H U H G H F W V W K H Q H Z V

(Q V X U H W K H G L U H F W L R Q D U U R Z V D U H R S R Z L Q W L Q W K I H Q Z O D D C J B
EH FUHDWHG RQ W K H U X Q M G G V X B I D V K H D Q G R P [W K B G Z X S Z

([S D Q G E D g e o m e t r y P a r t V H F W L R Q D t y p e W R U V † W K L B @ G

6 H O O K F W 7 K H I O D Q J H V K R X O G D S S H D U D V V K R Z Q 7 K H M R J J O

6 H O H F W J W O L H R Q 7 K G J e Z L Q G R Z D S S H D U V

6 H O H F W W K H S u p p o r t P l a n e D I G R a d i u s W K R U J o g g l e P l a n e 7 K H S U H Y L H Z V K R X O G
D S S H D U D V V K R Z Q

& K D Q J P l a n e P o s i t i o n S t a r t W K H Q D e p t h W W K H D Q G S t a r t R a d i u s W K H
D Q G R a d i u s W R

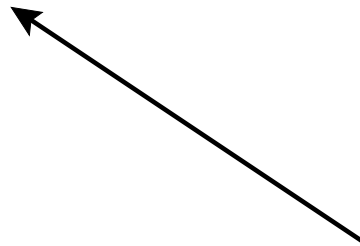
(Q V X U H W K H G L U H F W L R Q D U U R Z V P D W F K W K H L P D J H D E R Y H

6 H OOKF W\$Q Update Diagnosis Z L Q G R Z D S S H D U V

7KH MRJJ Surface Flange.3 W R IDLO 7KLV LV WKH IODQJH WKDV
DQJOHG VZHSW VXUIDFH

6H OOKF W Q WKH ZLQGRZ

5RWDWLQJ WKH PRGHO UHYHDOV D V D S SEW W X H HCF W K H K ZL
UHDVRQ WKH IODQJH IDLOHG



,Q RUGHU IRU WKH VXUIDFLF IODQJH WR WEHU F H F W ZHLG KW
VXUIDFH <RX ZLOO QHHG WR PRGWIH UWKHF W H ZL W Q RUKGHV
VXUIDFH HYHQ DIWHU WKH MRJJOH LV DGGHG

6ZLWFK WR WKH *HQHUDWLYH 6KDSH 'HVLJQ ZRUNEHQFK

<RX ZLOO RIIVHW W W W K D W L Z I Q D X H H X U W R H E Q L V Z G S W I K W B X W
ZHE GHILQLWLRQ 7KLV ZLOO H[W H W Q G W W K H H V Z H E S W R V X K I D D
MRJJOH

6 HOHF3D WDKCHD F&XU YH Parallel ZLQGRZ DSSHUV

6 HOSHEW.1WR GHICUe IWK WKH RSHUDWLRQ

(QVXUH WKH GLUHFWLRQ LV SRLQWEDZWR RIURDQWKH ZHE
FODKN 7KH FXUYH VKRXOG DSSHDU DV VKRZQ

+ L Geometrical Set.1 7KH SDUW VKRXOG DSSHDU DV VKRZQ

6DYH DQG FORVH WKH GRFXPHQW