

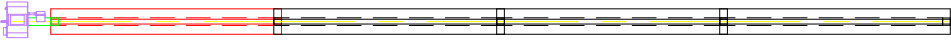
DES3 Series 20'



DES3 Series 30'



DES3 Series 40'



DES3 Series 50'



DES3 Series 60'



DES3 Series 70'

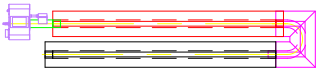


DES3 Series 80'

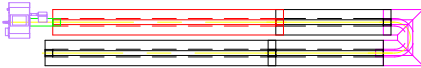


DETROIT RADIANT PRODUCTS 21400 HOOVER RD WARREN, MI 48089		
DETAILS: DES3 SERIES BLOCKS - STRAIGHT CONFIGURATION		
DRAWN BY: DRP	SCALE: 1:1	PROJECT:
CHECKED BY:	DATE: AUG. 2024	DRAWING NO: 1

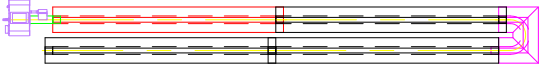
DES3 Series 20' "U"



DES3 Series 30' "U"



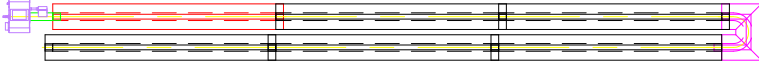
DES3 Series 40' "U"



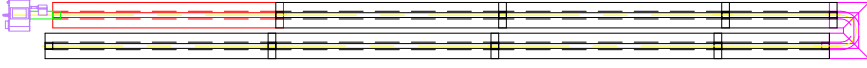
DES3 Series 50' "U"



DES3 Series 60' "U"



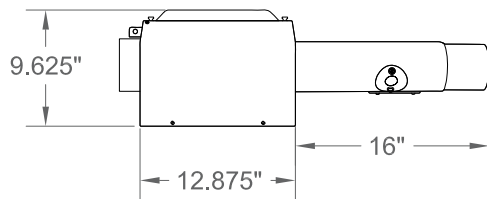
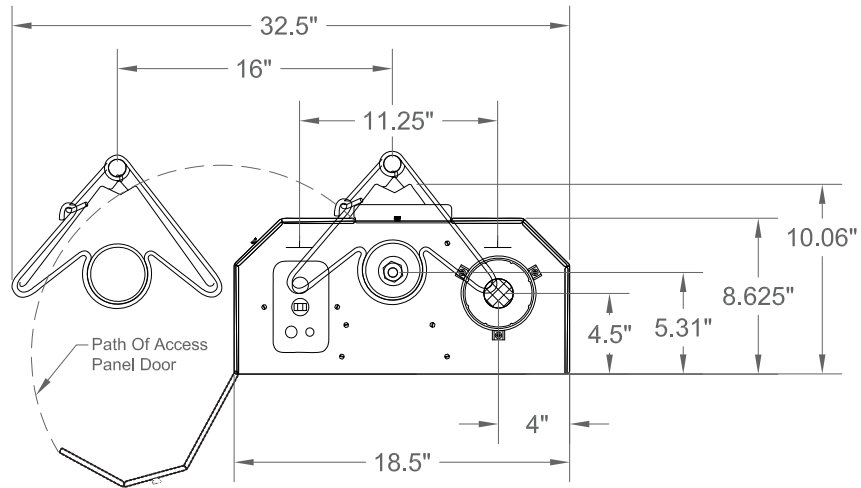
DES3 Series 70' "U"



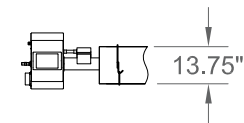
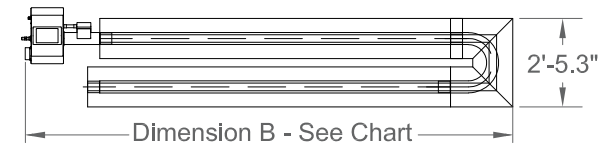
DES3 Series 80' "U"



DETROIT RADIANT PRODUCTS 21400 HOOVER RD WARREN, MI 48089		
DETAILS: DES3 SERIES BLOCKS - "U" CONFIGURATION		
DRAWN BY: DRP	SCALE: 1:1	PROJECT:
CHECKED BY:	DATE: AUG. 2024	DRAWING NO: 1

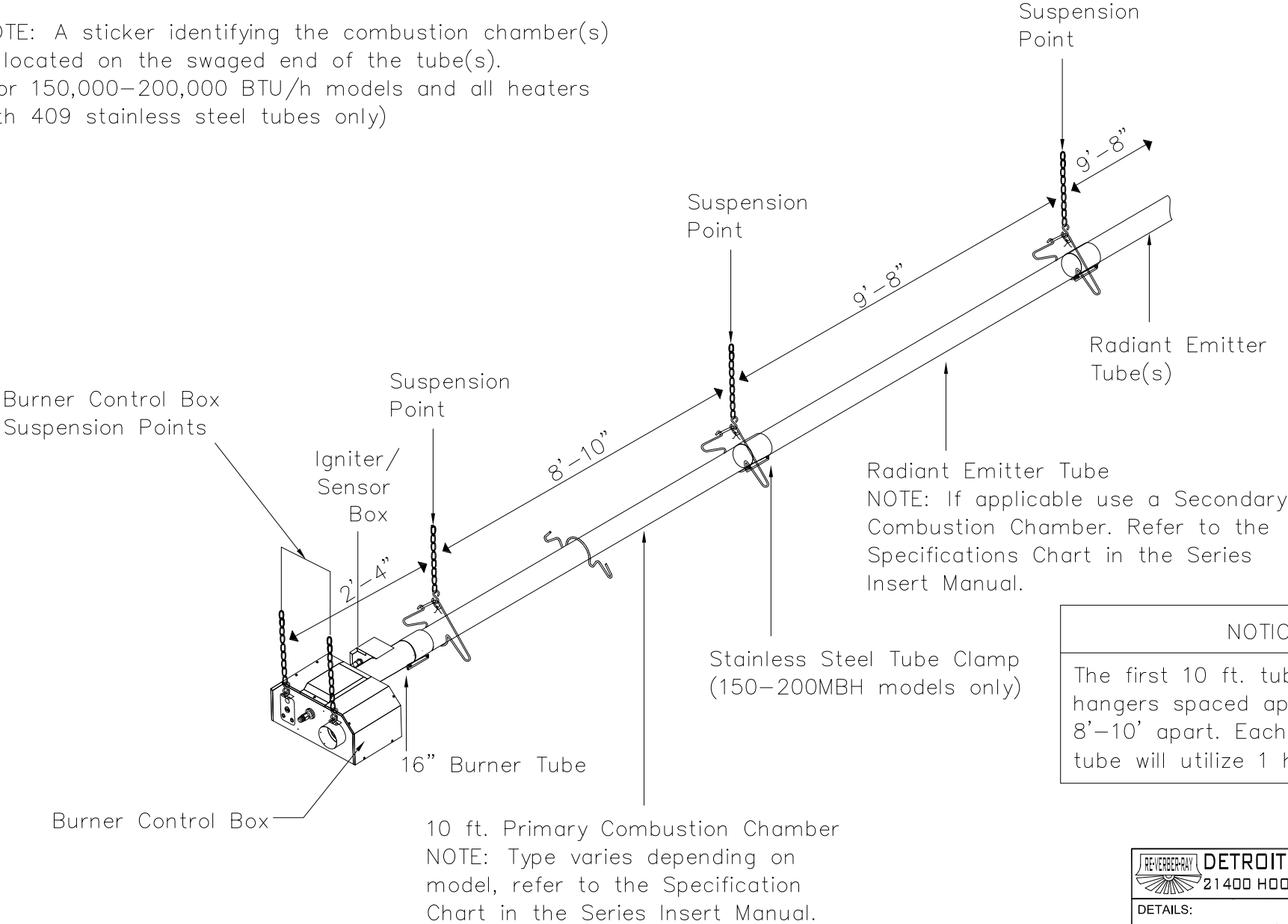


MODEL NUMBER	DIMENSION "A" STRAIGHT	DIMENSION "B" U-TUBE
DES3-20	21'-9"	13'-1"
DES3-30	31'-5"	17'-9" *
DES3-40	41'-1"	22'-9"
DES3-50	50'-9"	27'-5" *
DES3-60	60'-5"	32'-5"
DES3-70	70'-1"	37'-3" *
DES3-80	79'-9"	42'-1"



 DETROIT RADIANT PRODUCTS 21400 HOOVER RD WARREN, MI 48089		
DETAILS: DES3 SERIES - HEATER DIMENSIONAL DATA		
DRAWN BY: DRP	SCALE: NTS	PROJECT:
CHECKED BY:	DATE: AUG. 2024	DRAWING NO: 1

NOTE: A sticker identifying the combustion chamber(s) is located on the swaged end of the tube(s).
(For 150,000–200,000 BTU/h models and all heaters with 409 stainless steel tubes only)

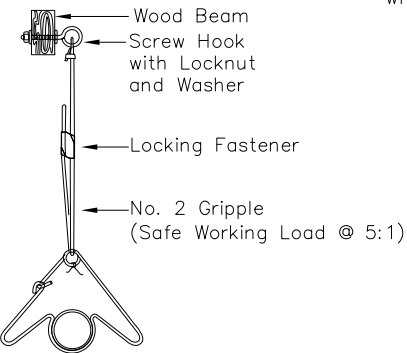
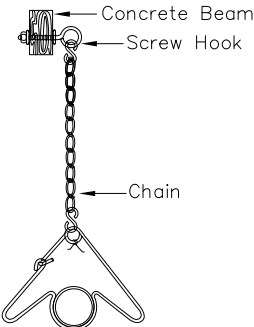
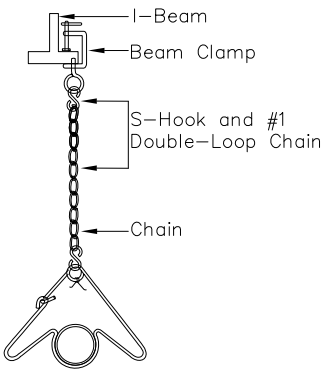
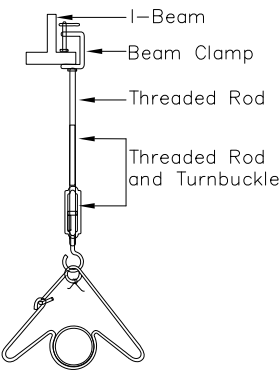


NOTICE

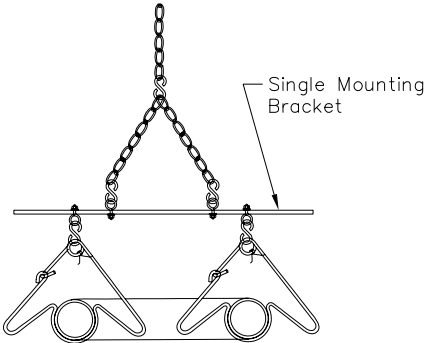
The first 10 ft. tube will utilize 2 hangers spaced approximately 8'-10' apart. Each subsequent tube will utilize 1 hanger.

REVERBER-RAY DETROIT RADIANT PRODUCTS 21400 HOOVER RD WARREN, MI 48089		
DETAILS: V3 - HEATER MOUNTING LAYOUT DETAILS		
DRAWN BY: DRP	SCALE: NTS	PROJECT:
CHECKED BY:	DATE: AUG. 2024	DRAWING NO: 1

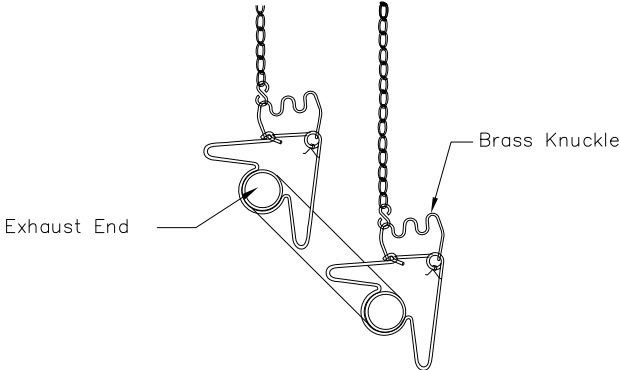
Mounting the Hangers



U-Tube Hanger Mounting Options



U-Tubes can be mounted from a single suspension point using a Single Mounting Bracket (P/N: SMB) with five S-hooks and #1 double-loop chains.

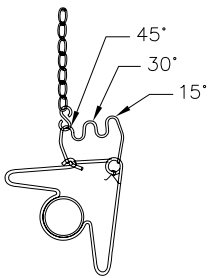


U-Tubes can be mounted at a 15°, 30°, or 45° angle with two suspension points, using two Brass Knuckle (P/N: BK) fittings, #1 double-loop chains and S-hooks.

Angled Hanger Mounting Options



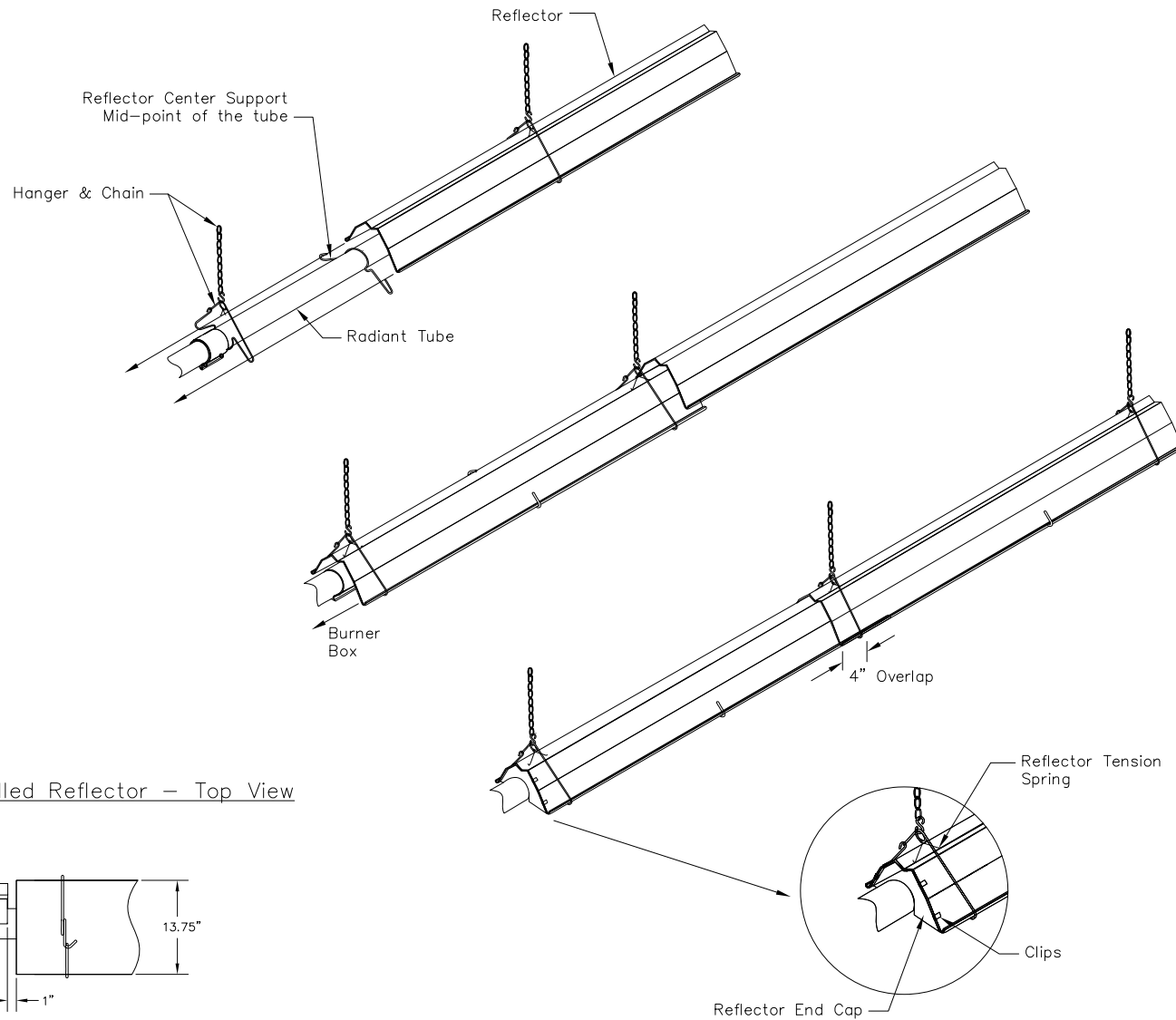
For 45° hanging angle, use two S-hooks and two #1 double-loop chains.



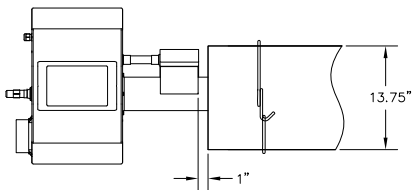
For a variety of hanging angles, use the Brass Knuckle (P/N: BK) fitting with a #1 double-loop chain and S-hook.

 DETROIT RADIANT PRODUCTS 21400 HOOVER RD WARREN, MI 48089		
DETAILS: HEATER HANGER DETAILS		
DRAWN BY: DRP	SCALE: NTS	PROJECT:
CHECKED BY:	DATE: AUG. 2024	DRAWING NO: 1

Reflector Assembly

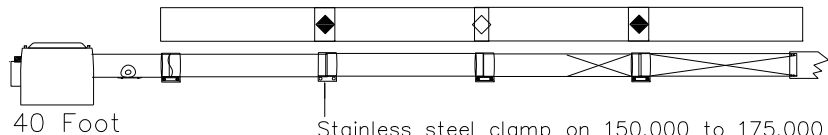
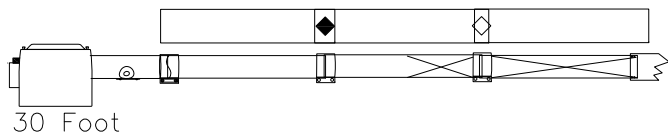
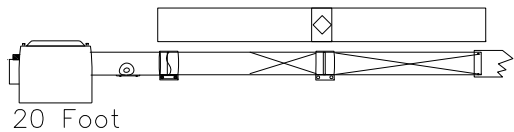


Width of Installed Reflector — Top View

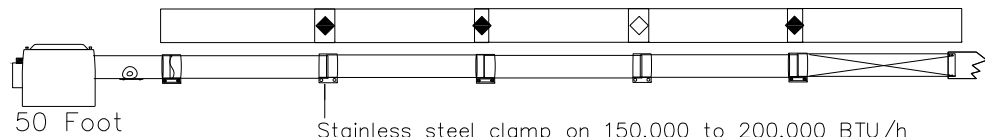


 DETROIT RADIANT PRODUCTS 21400 HOOVER RD WARREN, MI 48089		
DETAILS: V3 - REFLECTOR ASSEMBLY DETAILS		
DRAWN BY: DRP	SCALE: NTS	PROJECT:
CHECKED BY:	DATE: AUG. 2024	DRAWING NO: 1

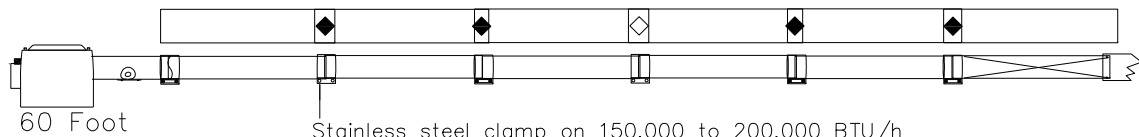
Final Heater Assembly
Tube Installation Sequence, Baffle Location and Secured Joints for Reflectors



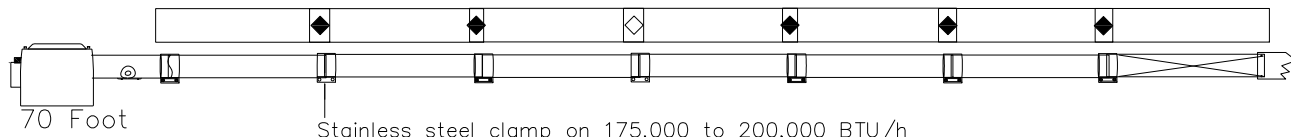
Stainless steel clamp on 150,000 to 175,000 BTU/h models (P/N: TP-220).



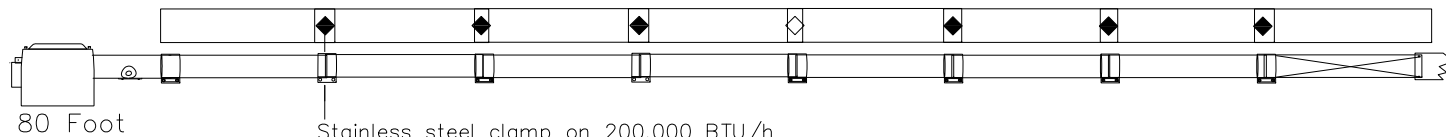
Stainless steel clamp on 150,000 to 200,000 BTU/h models (P/N: TP-220).



Stainless steel clamp on 150,000 to 200,000 BTU/h models (P/N: TP-220).

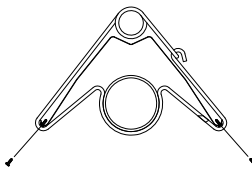


Stainless steel clamp on 175,000 to 200,000 BTU/h models (P/N: TP-220).

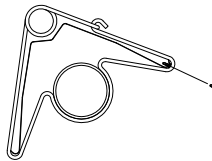


Stainless steel clamp on 200,000 BTU/h models (P/N: TP-220).

NOTE: When securing joints on reflectors which are rotated on an angle from horizontal, secure joint only on top side of reflector to allow for sufficient heater expansion and contraction.



0° Mounting Angle



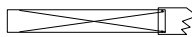
1° to 45° Mounting Angle



Expansion Joint on Reflectors



Secured Joint on Reflectors
See note.



Baffle Location



DETROIT RADIANT PRODUCTS
21400 HOOVER RD WARREN, MI 48089

DETAILS:

V3 - FINAL HEATER ASSEMBLY DETAILS

DRAWN BY:

DRP

SCALE:

NTS

PROJECT:

CHECKED BY:

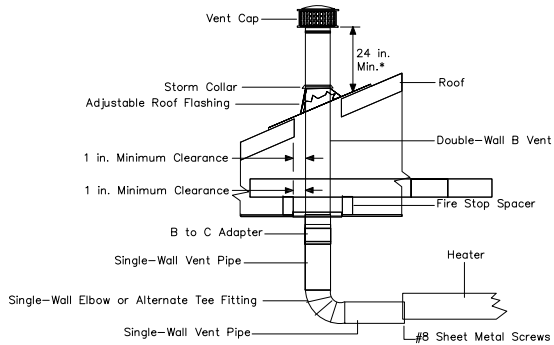
DATE:

AUG. 2024

DRAWING NO:

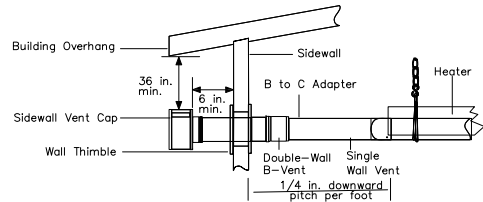
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General Vent Requirements

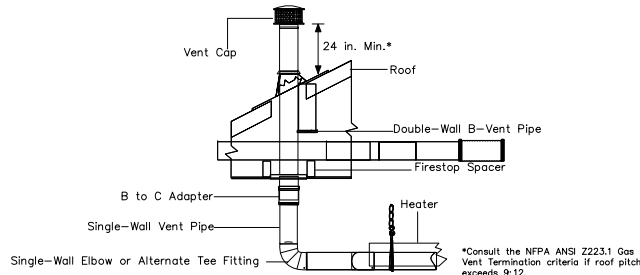


*Consult the NFPA ANSI Z223.1 Gas Vent Termination criteria if roof pitch exceeds 9:12

Sidewall Venting Requirements

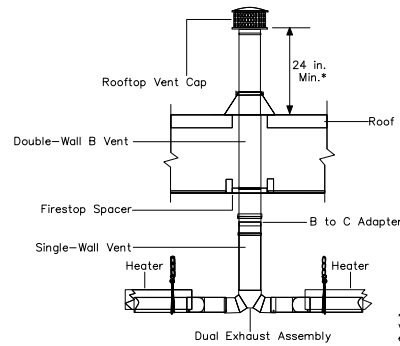


Rooftop Venting – Side View



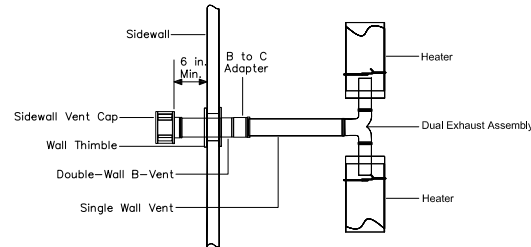
*Consult the NFPA ANSI Z223.1 Gas Vent Termination criteria if roof pitch exceeds 9:12.

Common Rooftop Venting – Side View



*Consult the NFPA ANSI Z223.1 Gas Vent Termination criteria if roof pitch exceeds 9:12.

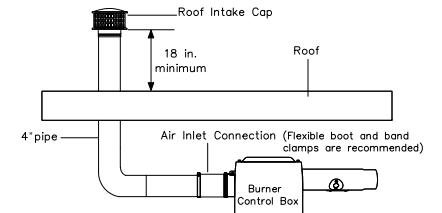
Common Sidewall Venting – Top View



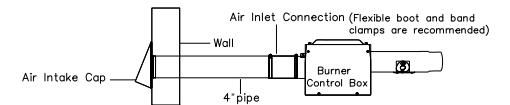
Unvented Operation



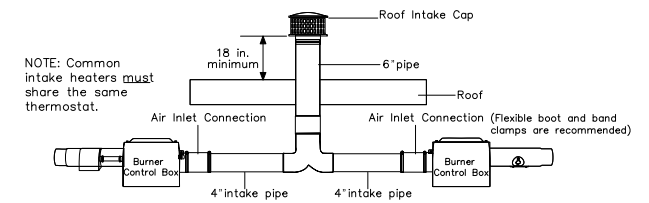
Vertical Outside Air Supply for Single Heater Intake – Side View



Horizontal Outside Air Supply for Single Heater Intake – Side View



Vertical Outside Air Supply for Common Intake – Side View



NOTE: Common intake heaters must share the same thermostat.

REVERBER-RAY DETROIT RADIANT PRODUCTS 21400 HOOVER RD WARREN, MI 48089		
DETAILS: V3 - VENTING AND AIR INTAKE DETAILS		
DRAWN BY: DRP	SCALE: NTS	PROJECT:
CHECKED BY:	DATE: AUG. 2024	DRAWING NO: 1