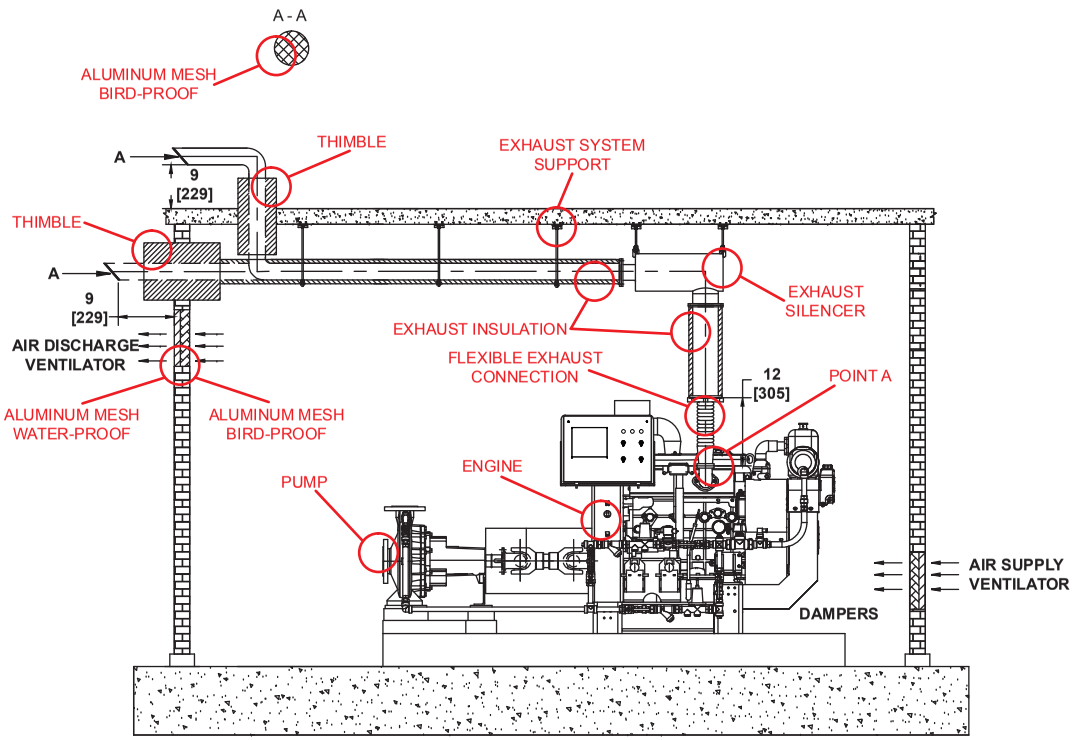

INSTALLATION GUIDELINES:

1. REFER TO NFPA 20 SECTION 11.5 FOR ADDITIONAL INFORMATION. OTHER PIPING SYSTEMS ARE POSSIBLE. SCHEMATIC SHOWN IS FOR EGRESS THROUGH WALL WITH BOTTOM IN AND SIDE OUT SILENCER.
2. THE EXHAUST SYSTEM AND SILENCER USED MUST BE SUITABLE FOR THIS USE AND THE INSTALLER MUST ENSURE THAT THE BACK PRESSURE DOES NOT EXCEED THE ENGINE MANUFACTURERS RECOMMENDATION.
3 THE EXHAUST PIPING SHALL NOT BE SMALLER IN DIAMETER THAN THE ENGINE EXHAUST PIPING.
4. THE EXHAUST PIPING SHALL BE COVERED WITH HIGH TEMPERATURE INSULATION OR OTHERWISE GUARDED TO PROTECT PERSONNEL FROM INJURY (NFPA 11.5.2.4).
5. THE EXHAUST PIPING SYSTEM MUST BE SUPPORTED SUCH THAT THERE IS NO WEIGHT ON THE FLEXIBLE EXHAUST CONNECTION.
6. THE EXHAUST PIPING SHALL BE POSITIONED IN SUCH A WAY AS TO PREVENT EXHAUST GASES FROM RE-ENTERING THE PUMP ROOM.
7. THE EXHAUST PIPING AND THE POINT OF EGRESS FROM THE PUMP ROOM SHALL BE CONSTRUCTED OR INSULATED SO THAT IT DOES NOT CAUSE A FIRE IGNITION RISK TO THE STRUCTURE.
8. THE EXHAUST SYSTEM SHALL TERMINATE OUTSIDE OF THE STRUCTURE AT A POINT WHERE HOT GASES, SPARKS OR COMBUSTION PRODUCTS WILL DISCHARGE TO A SAFE LOCATION.
9. EXHAUST SYSTEM TERMINATIONS SHALL NOT BE DIRECTED TOWARDS COMBUSTIBLE MATERIAL, STRUCTURES OR INTO ATMOSPHERES CONTAINING FLAMMABLE GASES, FLAMMABLE VAPORS OR COMBUSTIBLE DUST.
10. EXHAUST PIPING SHALL BE INSTALLED WITH A CLEARANCE OF AT LEAST 9 INCHES [229 MILLIMETERS] TO COMBUSTIBLE MATERIALS (NFPA 11.5.2.7).
11. EXHAUST PIPING PASSING DIRECTLY THROUGH COMBUSTIBLE ROOFS SHALL BE GAURDED AT THE POINT OF PASSAGE BY METAL THIMBLES THAT EXTEND NOT LESS THAN 9 INCHES [229 MILLIMETERS] BELOW THE ROOF CONSTRUCTION AND ARE AT LEAST 6 INCHES [152 MILLIMETERS] LARGER IN DIAMETER THAN THE EXHAUST PIPING (NFPA 11.5.2.7).
12. EXHAUST PIPING PASSING DIRECTLY THROUGH COMBUSTIBLE WALLS OR PARTITIONS SHALL BE GUARDED AT THE POINT OF PASSAGE BY ONE OF THE FOLLOWING METHODS:
    (1) METAL VENTILATED THIMBLES NOT LESS THAN 12 INCHES [305 MILLIMETERS] LARGER IN DIAMETER THAN THE EXHAUST PIPING.
    (2) METAL OR FIRED CLAY THIMBLES BUILT INTO THE BRICKWORK OR OTHER APPROVED MATERIAL PROVIDING NOT LESS THAN 8 INCHES [203 MILLIMETERS] OF INSULATION BETWEEN THE THIMBLE AND CONSTRUCTION MATERIAL.

WARNING:
THE BACK PRESSURE TO THE ENGINE EXHAUST CONSIDERABLY INFLUENCES THE POWER OF THE ENGINE AND IT'S THERMAL LOADING. EXCESSIVE BACK PRESSURE MEASURED AT THE ENGINE EXHAUST OUTLET CONNECTION (POINT A) WILL DECREASE POWER, INCREASE THE TEMPERATURE OF THE EXHAUST GAS, PRODUCE SMOKE, INCREASE FUEL CONSUMPTION, SULPHURISES THE INTERNAL COOLING WATER (WITH SUBSEQUENT DAMAGE TO THE LUBRICANTS) AND PRODUCES SERIOUS CONSEQUENCES FOR OTHER ENGINE ELEMENTS (I.E. TURBOCHARGER, ETC.).

REV	DESCRIPTION	DWN	APVD	DATE
A	CREATION	MJF		09/01/2020

AMERIFLO

DRW BY: MJF	DATE: 09/01/2020	NAME: TYPICAL EXHAUST PIPING DETAIL PER NFPA 20	PROJECTION:
CHK BY:	DATE:	PART NO.: TEPD-00	PROJECT:
APPROVED:	DATE:	MATERIAL:	SCALE: NONE / PAGE 1 OF 1

REV

UNITS IN[MM]