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| 1. METAL DUCTS | 19. Branch Connections |
| 2. Typical Supply, Return, and Exhaust Ducts
- (<i>Sample Illustration</i>) | 20. Volume Dampers – Single Blade Type |
| 3. Rectangular Ducts (S&D - 1” W.G.) | 21. Duct Access Doors |
| 4. Rectangular Ducts (TDF - 1” W.G.) | 22. Rectangular Gooseneck
- (<i>SMACNA Illustration</i>) |
| 5. Rectangular Ducts (S&D - 2” W.G.) | 23. Riser Supports – From Floor
- (<i>SMACNA Illustration</i>) |
| 6. Rectangular Ducts (TDF - 2” W.G.) | 24. Obstructions |
| 7. Rectangular Ducts (TDF - 3” W.G.) | 25. Seams – Round Duct and Fittings
- (<i>SMACNA Fig. 3-2</i>) |
| 8. Rectangular Ducts (TDF - 4” W.G.) | 26. Longitudinal Seams – Round Ducts
- (<i>SMACNA Dwg. 11</i>) |
| 9. Rectangular Ducts (TDF - 6” W.G.) | 27. Round Duct Elbows
- (<i>SMACNA Fig. 3-4</i>) |
| 10. Rectangular Ducts (TDF - 10” W.G.) | 28. Tees & Laterals - Round Fittings |
| 11. Rectangular Ducts – Connector and Seam Types | 29. Round Fittings – Tees, Conical |
| 12. Rectangular Ducts – Longitudinal Seams
- (<i>SMACNA Dwg. 12</i>) | 30. Round Fittings – Tees, Straight |
| 13. Rectangular Ducts and Fittings | 31. Round Fittings – Tees, 45 deg. |
| 14. Tie Rods | 32. Round Elbow - With Tap |
| 15. Rectangular Elbows (<i>SMACNA Fig. 4-2</i>) | 33. Round Elbow Fittings |
| 16. Number of Short Radius Vanes
- (<i>SMACNA Chart 4-1</i>). | 34. Round Reducer Fittings |
| 17. Duct Vanes | 35. Conical Tee Tap |
| 18. Rectangular Vanes | 36. Round Connections |

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- 1.** FLEXIBLE DUCT CONNECTOR (FDC)
- 2.** Duro Dyne Flexible Duct Connector
- MVL Versalon
- 3.** Duro Dyne Flexible Duct Connector – MVL Versalon
- Specifications
- 4.** Duro Dyne Flexible Duct Connector
- Stainless Steel
- 5.** Duro Dyne Flexible Duct Connector - Stainless Steel
- Specifications
- 6.** Duro Dyne Flexible Duct Connector
- Aluminum
- 7.** Duro Dyne Flexible Duct Connector – Aluminum
- Specifications

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1. HANGERS & ATTACHMENTS
2. Min. Size for Rectangular Duct Hangers
- (*SMACNA Table*)
3. Minimum Hanger Sizes for Round Duct
- (*SMACNA Table*)
4. Lower Hanger Attachments
- (*SMACNA Illustration*)
5. Upper attachment devices
6. Hanger attachments to structures.

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- 1.** ANCHORS FOR DUCT HANGERS
- 2.** Red Head Redi-Drive Anchors
- 3.** Red Head Redi-Drive Anchors
 - Performance Table
- 4.** Hilti Metal Hit Anchors
- 5.** Powers Fasteners
- 6.** Powers Fasteners
 - Performance Data
- 7.** Powers Fasteners
 - Performance Data (Cont.)
- 8.** Powers Fasteners
 - Performance Data (Cont.)

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1. FLEXIBLE DUCTS
2. ATCO Flex Duct System
- ☐ R-4 (1") ☐ R-6 (1.5") ☐ Other (_____)
3. ATCO Flex Duct System Performance Data
4. M-KE Insulated – For environmental air handling systems.
- ☐ R-4 (1") ☐ R-6 (1.5") ☐ R-8.0
5. M-KE Insulated – Acoustical
- ☐ R-4.2 ☐ R-6.0 ☐ R-8.0
6. M-KE Applications & Engineering Data
7. Flexible Duct Support
- (SMACNA Fig. 3-11)

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- 1.** DUCT SEALANT
- 2.** Standard Duct Sealing Requirements
- 3.** Versa-grip 181 (CCWI 181)

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1. FIBER-GLASS DUCTS
2. Mat-Faced Micro-Aire Fiber-Glass Duct-Board
 - Type 475 & Type 800.
 - ☐ R-4 (1") ☐ R-6 (1.5") ☐ Other (_____)
3. Mat-Faced Micro-Aire Fiber-Glass Duct-Board (Cont.)
4. SuperDuct RC – High Performance Air Duct Board
5. SuperDuct RC Air Duct Systems
 - Specifications

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1. DUCT LINER
2. Johns Manville Linacoustic RC
- ☐ R-4 (1'') ☐ R-6 (1.5'') ☐ Other (_____)
3. Johns Manville Linacoustic RC (Cont.)
4. Liner Installation
- *(Based on SMACNA standards)*
5. Liner Fasteners
- *(Based on SMACNA standards)*

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- 1.** DOUBLE-WALL DUCTS
- 2.** Information (Drawing) based on SMACNA standards.
- 3.** Knauf Insulation Duct Wrap Data
- 4.** Knauf Insulation Duct Wrap Data (Cont.)
- 5.** Johns Manville Permacote Linacoustic Standard/HP Fiberglass Liner
- 6.** Johns Manville Permacote Linacoustic Standard/HP Fiberglass Liner (Cont.)
- 7.** Johns Manville Permacote Linacoustic Liner
- Specifications & Additional Data
- 8.** Johns Manville Permacote Linacoustic Liner
- Specifications & Additional Data (Cont.)

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- 1.** FAN / ROOF SUPPORTS
- 2.** Rooftop Duct Installation
- (*SMACNA Fig. 6-3*)
- 3.** Equipment & Duct Support Flashing
- (*SMACNA Fig. 6-4*)
- 4.** Aluminum Stands - Roof Ductwork
- Engineer's Cover Letter
- 5.** Roof Duct Supports (*SD-1 of 2*).
- 6.** Roof Duct Supports (*SD-2 of 2*).
- 7.** Aluminum Equipment Support (*Standards*)

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1. FANS

2. _____

3. _____



1. AIR DISTRIBUTION

2. _____

3. _____



1. DAMPERS
2. _____
3. _____



- 1.** ACCESS DOORS
- 2.** Duct Access Doors & Panels (SMACNA Fig. 7-2)
- 3.** Access Doors - By Ruskin (SMACNA Standard)
- 4.** Access Doors - By Ruskin (SMACNA Standard)
- Performance Data
- 5.** Access Doors – By Greenheck (Model HAD-10)

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1. LOUVERS
2. _____
3. _____

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1. BRICK VENTS
2. _____
3. _____

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1. DUCT HEATERS
2. _____
3. _____



1. VAV BOXES

2. _____

3. _____

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1. DUCT SILENCERS

2. _____

3. _____