

Part 1 General

1.1 RELATED REQUIREMENTS

- .1 Common Work Results for HVAC Section 23 05 00

1.2 RELATED WORK SPECIFIED IN OTHER SECTIONS

- .1 Mechanical Systems Balancing Section 23 08 83
- .2 Ductwork and Breeching Insulation Section 23 07 00
- .3 Duct Accessories Section 23 31 30
- .4 Interior Luminaires Division 26

1.3 WORK SPECIFIED BUT INSTALLED IN OTHER SECTIONS

- .1 Door Grilles Section 08XXX

1.4 SHOP DRAWINGS AND SUBMITTALS

- .1 Comply with requirements of Section 01 33 10.
- .2 Include a schedule of the following information:
 - .1 Grille type and description
 - .2 Size and location
 - .3 Air flow volumes and noise levels
 - .4 Finish
 - .5 Accessories
 - .6 Ceiling attachment
- .3 Submit sample of each required air outlet and inlet type.

1.5 PRODUCT OPTIONS AND SUBSTITUTIONS

- .1 Refer to Division 1 for requirements pertaining to product options and substitutions.

1.6 ABBREVIATIONS

- .1 ADC: Air Diffusion Council
- .2 AMCA: Air Movement and Control Association

1.7 PERFORMANCE STANDARDS

- .1 Unit performance ratings listed in manufacturer's data shall be tested to the following standards:
 - .1 Ceiling Diffusers: to ADC Equipment Test Code 1062 R1 and ASHRAE Standard 36B63.
 - .2 Light Troffer Diffusers: to ADC Equipment Test Code 1062 R4 and ISO Standard 3741.
 - .3 Supply Grilles: to ADC Equipment Test Code 1062 R2 and ASHRAE Standard 36B63.
 - .4 Louvres: to AMCA Standard 500 test procedure.

Part 2 Products

- .1 See the supplied drawing schedules.

Part 3 Execution

3.1 INSTALLATION

- .1 Make airtight connection between diffusers and ductwork.
- .2 Provide balancing damper on duct take-off to each diffuser at main branch take-off, even when volume dampers are specified as part of grille assembly. For details of balancing dampers, refer to Section 23 33 10, Ductwork Accessories.
- .3 Sizes indicated are nominal. Provide correct standard product nearest to nominal to deliver the capacity listed without increasing noise levels or pressure drop.
- .4 Arrange to paint ductwork visible behind air outlets matt black. Refer to Section 09900.
- .5 Confirm air outlet/inlet and louvre dimensions, mounting, finish and colours with ceiling and wall construction prior to submitting shop drawings.
- .6 Adjust supply outlets to deliver patterns defined on drawings or as directed by Consultant.
- .7 Provide smudge resistant frames on diffusers located in textured ceilings.
- .8 Provide factory finish on each air inlet/outlet, louvre and intake hood as scheduled.
- .9 Mount roof hoods and goosenecks on 300 mm high curb base.

END OF SECTION