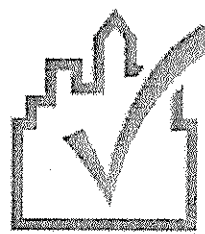


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COMcheck Software Version 3.8.1  
Mechanical Compliance Certificate

90.1 (2007) Standard

Section 1: Project Information

Project Title: Brooklyn Philharmonic

Construction Site:  
299 DeGraw Street,  
Brooklyn, NY 11231

Owner/Agent:  
Brooklyn Philharmonic  
65 Washington Street  
Suite 655  
Brooklyn, NY 11201

Designer/Contractor:  
HOK  
1365 Avenue of the Americas  
6th Floor  
New York, NY 10018  
1-212-741-1200

Section 2: General Information

Building Location (for weather data): New York, New York

Climate Zone: 4b

Section 3: Mechanical Systems List

Quantity System Type & Description

- 1 Heating Equipment 1:  
Heating: 1 each - Hydronic or Steam Coil, Steam, Capacity ~ 110 kBtu/h  
Cooling: 1 each - Split System, Capacity ~ 70 kBtu/h, Efficiency ~ 11.20 EER, Air-Cooled Condenser  
Compliance required
- 1 Plant 1: Heating: Steam Boiler, Capacity 480 kBtu/h, Gas  
Exemption: Modification or repair without energy use change.
- 2 Water Heater 1: Gas Storage Water Heater, Capacity: 75 gallons, Input Rating: 72 Btu/h w/ Circulation Pump,  
Efficiency: 0.80 EF  
Compliance required

Section 4: Requirements Checklist

Requirements Specific To: Heating Equipment 1:

- ☒ 1. Equipment minimum efficiency: Split System: 11.0 EER

Requirements Specific To: Water Heater 1:

- ☒ 1. Gas Storage Water Heater efficiency: 0.8 EF
- ☒ 2. Hot water system sized per manufacturer's sizing guide
- ☒ 3. All piping in circulating system insulated
- ☒ 4. Hot water storage temperature adjustable down to 120°F or lower
- ☒ 5. Automatic time control of heat loss and recirculating systems present
- ☒ 6. Controls will shut off operation of circulating pump between water heater/boiler and storage tanks within 5 minutes after end of heating cycle

Generic Requirements: Must be met by all systems to which the requirement is applicable:

- ☒ 1. Load calculations per ASHRAE Fundamentals
- ☒ 2. Automatic Controls: Setback to 55°F (heat) and 65°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup
- ☐ Exception: Continuously operating zones
- ☒ 3. Hot water pipe insulation: 1 in. for pipes <1.5 in. and 2 in. for pipes >1.5 in.  
Cold water/energy-efficient pipe insulation: 1 in. for pipes <1.5 in. and 1.5 in. for pipes >1.5 in.  
Steam pipe insulation: 1.5 in. for pipes <1.5 in. and 3 in. for pipes >1.5 in.

Project Title: Brooklyn Philharmonic  
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Report date: 04/15/11  
Page 6 of 6

Project Title: Brooklyn Philharmonic  
Data Filename: K:\JFK\BrooklynPhilharmonic\_pj08037\CAU\Energy Cdc Sheet\Energy\_NY08037.dwg

Report date: 04/15/11  
Page 7 of 8

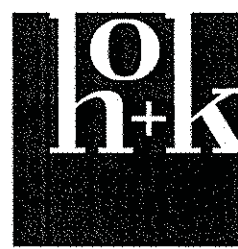
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Report date: 04/15/11  
Page 8 of 8

Project  
BROOKLYN  
PHILHARMONIC  
MUSIC CENTER  
299 DeGraw Street, Brooklyn, NY 11231

Prepared for  
Brooklyn Philharmonic  
55 Washington Street, Suite 656  
Brooklyn, NY 11201

Contract No: 79.07250.09



HOK  
1065 Avenue of the Americas  
New York, NY 10018 USA  
t +1 212 741 1200 f +1 212 633 1163

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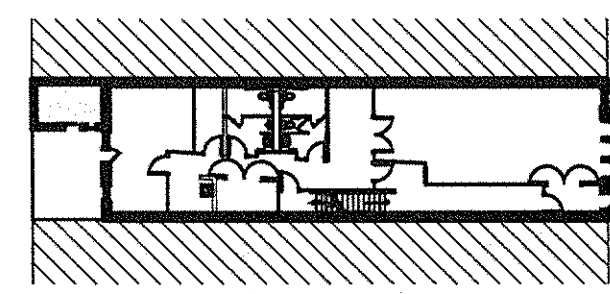
NYC Department of Design + Construction  
30-30 Thompson Avenue, #5-076  
Long Island City, NY 11101

Old Structures  
Structural Engineers  
111 Broadway, 14th Floor  
New York, NY 10006

M-E Engineers  
MEP Engineers  
29 West 38th Street, 5th Floor  
New York, NY 10018

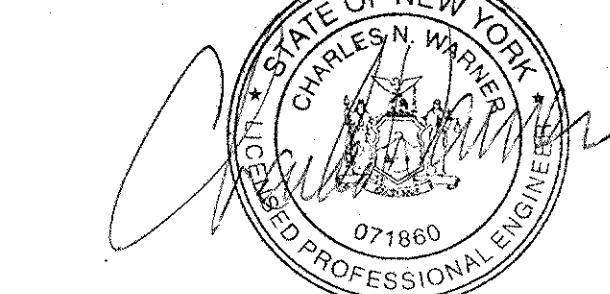
Syska Hennessy Group  
Lighting Consultant  
11 West 42 Street  
New York, NY 10036

Key Plan



Block: 414  
Lot: 61

Professional Seal



If it is a violation of the laws of the State of New York for any person, unless acting under the direction of a licensed architect, to alter any item on these drawings.

No.	Issue Description	MM-DD-YYYY
1	ISSUE FOR RFG	06-14-2012
2	ISSUE FOR BD	07-20-2012

No.	Revision Description	MM-DD-YYYY
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B-Scan

Drawn by: DH Reviewed by: CW  
Project No: 79.07250.09  
Date: June 1, 2011  
CAPS ID: PV467BPHL

Sheet Title  
NYECCC MECHANICAL  
COMPLIANCE  
CERTIFICATE

Sheet Number

EN-101.00

Sheet 1 of 14  
Original drawing is 42 x 30. Do not scale contents of this drawing.