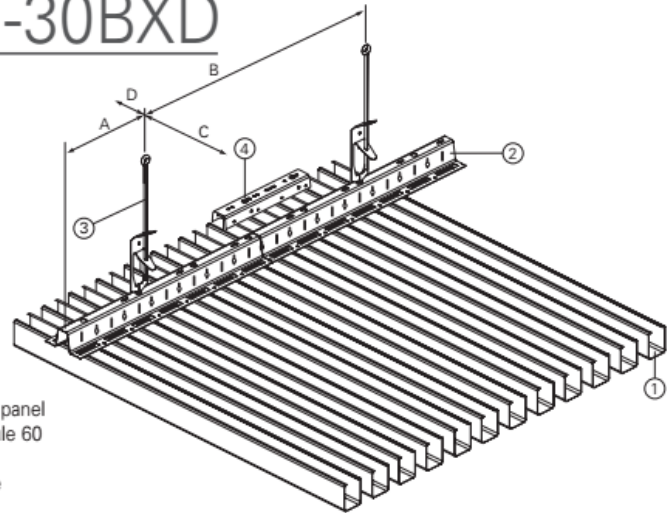


CCA Acoustic+ 30BD-30BXD

COMPLETE COVERAGE

Traditional ceilings systems like baffle and ceiling islands offer an acoustic solution, however complete ceiling coverage is not possible. The excellent thermal exchange and acoustic performance of Luxalon® CCA Acoustic+ 30BD and 30BXD enables 100% acoustical ceiling coverage, creating outstanding acoustic comfort and temperature control at levels that cannot be achieved with island or baffle systems.

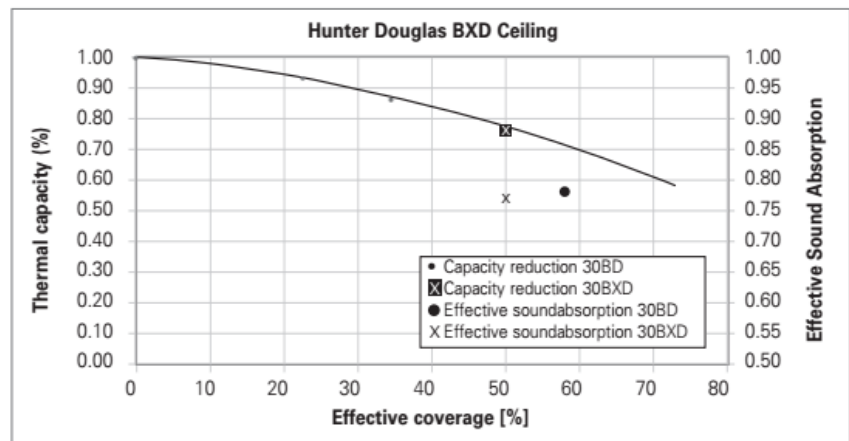


- 1 = 30BD / 30BXD panel
- 2 = Al carrier module 60
- 3 = Hanger
- 4 = Al carrier splice

Panel type	Carrier Span (mm)		Panel Span (mm)			
	A	B	on 2 carriers		on 3 or more carriers	
			C*	D	C*	D
30BD/30BXD	300	1200	1800	150	1800	150

THERMAL ACTIVATION

CCA reaches maximum efficiency if there is no barrier between the concrete structure and the underlying spaces. Independent climate chamber tests have shown that the aluminium used in Luxalon® CCA Acoustic+ 30BD and 30BXD panels and carriers is highly suited for cooling and heating as it functions as a thermal conductor. In combination with the relative openness of this ceiling system (50% openness with complete ceiling coverage), very positive results can be obtained.



THERMAL CAPACITY

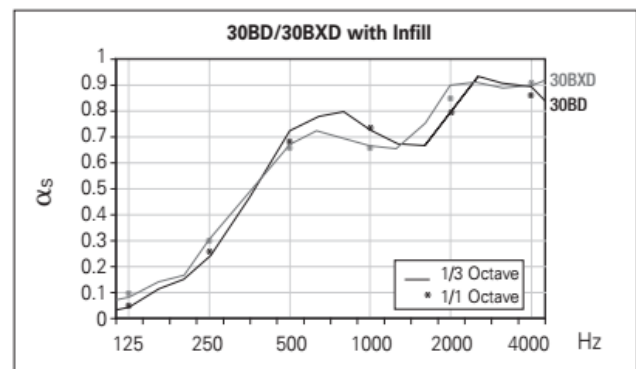
Complete ceiling coverage results in a thermal capacity reduction of only 23% when compared to a bare CCA ceiling. During winter the reduction in the thermal capacity compared to a bare CCA ceiling is 6%, based on complete ceiling coverage.

THERMAL EXCHANGE (Summer situation)

Reduction in capacity of CCA with 30BXD	Unit
2.0	W/m ² .K
23	%

ACOUSTICS

Our extensive experience in acoustic applications with Luxalon® Ceiling Systems has enabled Hunter Douglas to design an optimised CCA solution. Luxalon® CCA Acoustic+ 30BD and 30BXD panels are finished with special fine perforation in combination with acoustic nonwoven fabric and a high-grade sound absorbing filling. The result is an absorption capacity of $\alpha_w = 0.6(H)$ for an acoustically comfortable working environment.



ACOUSTICS

Acoustic+	125	250	500	1000	2000	4000	α_w	NRC
30BD	0.06	0.26	0.69	0.74	0.80	0.87	0.55	0.65
30BXD	0.09	0.30	0.66	0.67	0.85	0.91	0.60	0.65

The values are based on a plenum height of 70 mm. For the graphic reproduction of acoustic values see curve 30BD and 30BXD in the above graph. Tested by Peutz, test report no.: A 1846-1E-RA and test report no.: BA 1164-2E-RA