

BAB V

KESIMPULAN DAN SARAN

5.1. Kesimpulan

Berdasarkan penelitian yang telah dilakukan oleh peneliti, terdapat beberapa poin yang menjadi kesimpulan penelitian ini:

1. Di antara ke-empat tipe *double skin façade*, ditemukan bahwa penggunaan *buffer system* lebih banyak ketimbang yang lainnya. Hal ini dipengaruhi oleh panasnya suhu udara dan tingginya radiasi matahari pada lingkungan tropis sehingga untuk mencegah pemanasan kulit dalam fasad yang berhubungan langsung dengan ruangan, diberikan pula kulit kedua tertutup rapat agar suhu panas tersebut tidak dapat masuk ke kulit dalam.
2. Perbandingan antar tipe menunjukkan tipe *exhaust air façade* dapat membantu mendinginkan rongga apabila performa kaca luar tidak sebaik itu dengan menggabungkan sistem *HVAC* ke rongga fasad bangunan.
3. Penggunaan material kulit fasad berperan besar pada performa *DSF*, karena material tersebut memiliki koefisien penyerapan panas (*U value*) dan koefisien *SHGC* masing-masing dan semakin rendah *U value* dan *SHGC*, semakin baik performa yang diberikan. Material juga memiliki pengaruh besar pada performa visual fasad yang digambarkan oleh besaran *visual transmittance*. Material *sandblast glass* merupakan material yang unggul dalam memasukan banyak cahaya alami sekaligus menjaga privasi bangunan.
4. Penggunaan tanaman rambat sebagai kulit luar bangunan berpotensi besar digunakan di lingkungan tropis, namun membutuhkan perawatan lebih ketimbang kaca.
5. Tiap tipe *DSF* memiliki perbedaan performa akustik karena tipe konstruksinya yang berbeda (bersekat dan tidak bersekat), selain itu performa akustik juga dipengaruhi oleh jenis material yang digunakan kaca luar dan konstruksinya.

5.2. Saran

Di dalam menjejakan penelitian ini, peneliti mengalami keterbatasan waktu dan situasi sehingga data dan literatur yang terkumpul masih belum mencukupi. Diperlukan penelitian lebih mendalam kembali mengenai kinerja *double skin façade* pada bangunan

beriklim tropis. Peneliti menyarankan agar literatur yang digunakan lebih detail dan lebih banyak dalam mencantumkan data-data bangunan dan akan lebih baik lagi apabila disertai studi lapangan untuk mendapatkan hasil yang lebih nyata.



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