|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Group | Code | Author | Size: D x H x t | Dc | fc' | CFRP Thickness | e | Reinforcement | | P | εFP |
| (mm) x (mm) x (mm) | mm | MPa | mm | mm | Long-itudinal | Hoop | kN | mm/mm |
| 1 | G1 | E1 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 20 | 10.000 | 6.0000 | 1711.00 | 0.0112941 |
| 2 | E2 | Fang et al. (2020) | 200x500x7.8 | 184.4 | 28.5 | 0.495 | 20 | 0.000 | 0.0000 | 1491.61 | 0.01138 |
| 3 | E3 | Chang et al. (2021) | 168x588x5.0 | 158.0 | 29.0 | 0.495 | 20 | 0.000 | 0.0000 | 1074.14 | 0.0104865 |
| 4 | E4 | Guo et al. (2008) | 165x495x4.0 | 157.0 | 26.9 | 0.495 | 20 | 0.0000 | 0.0000 | 970.39 | 0.010498 |
| 5 | E5 | Bandyopadhyay et al. (2020) | 160x500x2.3 | 155.4 | 29.3 | 0.495 | 20 | 10.000 | 6.0000 | 1163.77 | 0.0093917 |
| 6 | E6 | Bandyopadhyay et al. (2020) | 160x500x3.7 | 152.6 | 29.3 | 0.495 | 20 | 10.000 | 6.0000 | 1183.98 | 0.0099209 |
| 7 | E7 | Bandyopadhyay et al. (2020) | 160x500x5.4 | 149.2 | 29.3 | 0.495 | 20 | 10.000 | 6.0000 | 1201.70 | 0.0103924 |
| 8 | E8 | Bandyopadhyay et al. (2020) | 160x1000x2.3 | 155.4 | 28.8 | 0.495 | 20 | 10.000 | 6.0000 | 999.66 | 0.0066642 |
| 9 | E9 | Bandyopadhyay et al. (2020) | 160x1000x3.7 | 152.6 | 28.8 | 0.495 | 20 | 10.000 | 6.0000 | 1027.13 | 0.0073854 |
| 10 | E10 | Bandyopadhyay et al. (2020) | 160x1000x5.4 | 149.2 | 28.8 | 0.495 | 20 | 10.000 | 6.0000 | 1039.39 | 0.0076868 |
| 11 | E11 | Bandyopadhyay et al. (2020) | 160x1000x2.3 | 155.4 | 33.1 | 0.495 | 20 | 10.000 | 6.0000 | 1038.99 | 0.0060802 |
| 12 | E12 | Bandyopadhyay et al. (2020) | 160x1000x3.7 | 152.6 | 33.1 | 0.495 | 20 | 10.000 | 6.0000 | 1070.76 | 0.0069247 |
| 13 | E13 | Bandyopadhyay et al. (2020) | 160x1000x5.4 | 149.2 | 33.1 | 0.495 | 20 | 10.000 | 6.0000 | 1095.43 | 0.0076154 |
| 14 | E14 | Bandyopadhyay et al. (2020) | 160x750x2.3 | 155.4 | 28.8 | 0.495 | 20 | 10.000 | 6.0000 | 1042.34 | 0.0070276 |
| 15 | E15 | Bandyopadhyay et al. (2020) | 160x750x3.7 | 152.6 | 28.8 | 0.495 | 20 | 10.000 | 6.0000 | 1052.58 | 0.0075237 |
| 16 | E16 | Bandyopadhyay et al. (2020) | 160x750x5.4 | 149.2 | 28.8 | 0.495 | 20 | 10.000 | 6.0000 | 1065.17 | 0.0079495 |
| 17 | E17 | Woldemariam et al. (2019) | 90x180x3.0 | 84.0 | 10.5 | 0.495 | 20 | 0.0000 | 0.0000 | 359.12 | 0.0106936 |
| 18 | E18 | Woldemariam et al. (2019) | 110x220x3.0 | 104.0 | 10.5 | 0.495 | 20 | 0.0000 | 0.0000 | 482.86 | 0.0150426 |
| 19 | E19 | Woldemariam et al. (2019) | 140x280x3.0 | 134.0 | 10.5 | 0.495 | 20 | 0.0000 | 0.0000 | 700.57 | 0.0127416 |
| 20 | E20 | Woldemariam et al. (2019) | 90x180x3.0 | 84.0 | 13.8 | 0.495 | 20 | 0.0000 | 0.0000 | 362.00 | 0.0104215 |
| 21 | E21 | Woldemariam et al. (2019) | 110x220x3.0 | 104.0 | 13.8 | 0.495 | 20 | 0.0000 | 0.0000 | 484.26 | 0.0141641 |
| 22 | E22 | Woldemariam et al. (2019) | 140x280x3.0 | 134.0 | 13.8 | 0.495 | 20 | 0.0000 | 0.0000 | 700.36 | 0.0123339 |
| 23 | E23 | Woldemariam et al. (2019) | 90x180x3.0 | 84.0 | 16.9 | 0.495 | 20 | 0.0000 | 0.0000 | 364.37 | 0.0102039 |
| 24 | E24 | Woldemariam et al. (2019) | 110x220x3.0 | 104.0 | 16.9 | 0.495 | 20 | 0.0000 | 0.0000 | 492.38 | 0.0137836 |
| 25 | E25 | Woldemariam et al. (2019) | 140x280x3.0 | 134.0 | 16.9 | 0.495 | 20 | 0.0000 | 0.0000 | 709.03 | 0.0124357 |
| 26 | E26 | Woldemariam et al. (2019) | 90x180x3.0 | 84.0 | 20.1 | 0.495 | 20 | 0.0000 | 0.0000 | 369.81 | 0.010031 |
| 27 | E27 | Woldemariam et al. (2019) | 110x220x3.0 | 104.0 | 20.1 | 0.495 | 20 | 0.0000 | 0.0000 | 496.58 | 0.0134881 |
| 28 | E28 | Woldemariam et al. (2019) | 140x280x3.0 | 134.0 | 20.1 | 0.495 | 20 | 0.0000 | 0.0000 | 699.81 | 0.0119766 |
| 29 | E29 | Woldemariam et al. (2019) | 90x180x3.0 | 84.0 | 24.1 | 0.495 | 20 | 0.0000 | 0.0000 | 374.92 | 0.0099464 |
| 30 | E30 | Woldemariam et al. (2019) | 110x220x3.0 | 104.0 | 24.1 | 0.495 | 20 | 0.0000 | 0.0000 | 504.49 | 0.0132098 |
| 31 | E31 | Woldemariam et al. (2019) | 140x280x3.0 | 134.0 | 24.1 | 0.495 | 20 | 0.0000 | 0.0000 | 739.04 | 0.0120551 |
| 32 | E32 | Alatshan et al. (2022) | 70x158x2.0 | 66.0 | 15.0 | 0.495 | 20 | 0.0000 | 0.0000 | 190.30 | 0.0126406 |
| 33 | E33 | Alatshan et al. (2022) | 100x225x3.0 | 94.0 | 15.0 | 0.495 | 20 | 0.0000 | 0.0000 | 370.99 | 0.0150797 |
| 34 | E34 | Alatshan et al. (2022) | 150x338x3.0 | 144.0 | 15.0 | 0.495 | 20 | 0.0000 | 0.0000 | 1605.78 | 0.032649 |
| 35 | E35 | Alatshan et al. (2022) | 70x158x2.0 | 66.0 | 35.0 | 0.495 | 20 | 0.0000 | 0.0000 | 676.56 | 0.0735143 |
| 36 | E36 | Alatshan et al. (2022) | 100x225x3.0 | 94.0 | 35.0 | 0.495 | 20 | 0.0000 | 0.0000 | 1213.93 | 0.080108 |
| 37 | E37 | Gupta et al. (2013) | 140x500x3.9 | 132.2 | 35.0 | 0.495 | 20 | 0.0000 | 0.0000 | 739.83 | 0.0073812 |
| 38 | E38 | Gupta et al. (2013) | 160x500x4.3 | 151.5 | 30.0 | 0.495 | 20 | 0.0000 | 0.0000 | 1585.03 | 0.0250326 |
| 39 | E39 | Gupta et al. (2013) | 140x500x3.9 | 132.2 | 51.5 | 0.495 | 20 | 0.0000 | 0.0000 | 1306.36 | 0.0227229 |
| 40 | G2 | E40 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 30 | 10.000 | 6.0000 | 1483.36 | 0.0088606 |
| 41 | E41 | Fang et al. (2020) | 200x500x7.8 | 184.4 | 28.5 | 0.495 | 30 | 0.000 | 0.0000 | 1305.05 | 0.0090631 |
| 42 | E42 | Chang et al. (2021) | 168x588x5.0 | 158.0 | 29.0 | 0.495 | 30 | 0.000 | 0.0000 | 919.91 | 0.0078878 |
| 43 | E43 | Guo et al. (2008) | 165x495x4.0 | 157.0 | 26.9 | 0.495 | 30 | 0.0000 | 0.0000 | 833.83 | 0.0076548 |
| 44 | E44 | Bandyopadhyay et al. (2020) | 160x500x2.3 | 155.4 | 29.3 | 0.495 | 30 | 10.000 | 6.0000 | 992.93 | 0.0068703 |
| 45 | E45 | Bandyopadhyay et al. (2020) | 160x500x3.7 | 152.6 | 29.3 | 0.495 | 30 | 10.000 | 6.0000 | 997.15 | 0.007076 |
| 46 | E46 | Bandyopadhyay et al. (2020) | 160x500x5.4 | 149.2 | 29.3 | 0.495 | 30 | 10.000 | 6.0000 | 1012.06 | 0.0076207 |
| 47 | E47 | Bandyopadhyay et al. (2020) | 160x1000x2.3 | 155.4 | 28.8 | 0.495 | 30 | 10.000 | 6.0000 | 822.75 | 0.0041756 |
| 48 | E48 | Bandyopadhyay et al. (2020) | 160x1000x3.7 | 152.6 | 28.8 | 0.495 | 30 | 10.000 | 6.0000 | 847.00 | 0.0048291 |
| 49 | E49 | Bandyopadhyay et al. (2020) | 160x1000x5.4 | 149.2 | 28.8 | 0.495 | 30 | 10.000 | 6.0000 | 859.50 | 0.0051647 |
| 50 | E50 | Bandyopadhyay et al. (2020) | 160x1000x2.3 | 155.4 | 33.1 | 0.495 | 30 | 10.000 | 6.0000 | 860.41 | 0.0037957 |
| 51 | E51 | Bandyopadhyay et al. (2020) | 160x1000x3.7 | 152.6 | 33.1 | 0.495 | 30 | 10.000 | 6.0000 | 880.47 | 0.0044471 |
| 52 | E52 | Bandyopadhyay et al. (2020) | 160x1000x5.4 | 149.2 | 33.1 | 0.495 | 30 | 10.000 | 6.0000 | 901.75 | 0.005116 |
| 53 | E53 | Bandyopadhyay et al. (2020) | 160x750x2.3 | 155.4 | 28.8 | 0.495 | 30 | 10.000 | 6.0000 | 861.02 | 0.00459 |
| 54 | E54 | Bandyopadhyay et al. (2020) | 160x750x3.7 | 152.6 | 28.8 | 0.495 | 30 | 10.000 | 6.0000 | 868.63 | 0.0050188 |
| 55 | E55 | Bandyopadhyay et al. (2020) | 160x750x5.4 | 149.2 | 28.8 | 0.495 | 30 | 10.000 | 6.0000 | 870.78 | 0.0052652 |
| 56 | E56 | Woldemariam et al. (2019) | 90x180x3.0 | 84.0 | 10.5 | 0.495 | 30 | 0.0000 | 0.0000 | 285.53 | 0.0086324 |
| 57 | E57 | Woldemariam et al. (2019) | 110x220x3.0 | 104.0 | 10.5 | 0.495 | 30 | 0.0000 | 0.0000 | 388.53 | 0.0122481 |
| 58 | E58 | Woldemariam et al. (2019) | 140x280x3.0 | 134.0 | 10.5 | 0.495 | 30 | 0.0000 | 0.0000 | 581.06 | 0.0105598 |
| 59 | E59 | Woldemariam et al. (2019) | 90x180x3.0 | 84.0 | 13.8 | 0.495 | 30 | 0.0000 | 0.0000 | 287.20 | 0.0083527 |
| 60 | E60 | Woldemariam et al. (2019) | 110x220x3.0 | 104.0 | 13.8 | 0.495 | 30 | 0.0000 | 0.0000 | 389.12 | 0.0113152 |
| 61 | E61 | Woldemariam et al. (2019) | 140x280x3.0 | 134.0 | 13.8 | 0.495 | 30 | 0.0000 | 0.0000 | 586.38 | 0.0101707 |
| 62 | E62 | Woldemariam et al. (2019) | 90x180x3.0 | 84.0 | 16.9 | 0.495 | 30 | 0.0000 | 0.0000 | 289.16 | 0.0081468 |
| 63 | E63 | Woldemariam et al. (2019) | 110x220x3.0 | 104.0 | 16.9 | 0.495 | 30 | 0.0000 | 0.0000 | 404.69 | 0.0112791 |
| 64 | E64 | Woldemariam et al. (2019) | 140x280x3.0 | 134.0 | 16.9 | 0.495 | 30 | 0.0000 | 0.0000 | 589.04 | 0.0099252 |
| 65 | E65 | Woldemariam et al. (2019) | 90x180x3.0 | 84.0 | 20.1 | 0.495 | 30 | 0.0000 | 0.0000 | 299.54 | 0.0082196 |
| 66 | E66 | Woldemariam et al. (2019) | 110x220x3.0 | 104.0 | 20.1 | 0.495 | 30 | 0.0000 | 0.0000 | 404.23 | 0.010659 |
| 67 | E67 | Woldemariam et al. (2019) | 140x280x3.0 | 134.0 | 20.1 | 0.495 | 30 | 0.0000 | 0.0000 | 594.00 | 0.0097809 |
| 68 | E68 | Woldemariam et al. (2019) | 90x180x3.0 | 84.0 | 24.1 | 0.495 | 30 | 0.0000 | 0.0000 | 301.62 | 0.0080043 |
| 69 | E69 | Woldemariam et al. (2019) | 110x220x3.0 | 104.0 | 24.1 | 0.495 | 30 | 0.0000 | 0.0000 | 409.81 | 0.010128 |
| 70 | E70 | Woldemariam et al. (2019) | 140x280x3.0 | 134.0 | 24.1 | 0.495 | 30 | 0.0000 | 0.0000 | 613.27 | 0.0091505 |
| 71 | E71 | Alatshan et al. (2022) | 70x158x2.0 | 66.0 | 15.0 | 0.495 | 30 | 0.0000 | 0.0000 | 140.17 | 0.0092653 |
| 72 | E72 | Alatshan et al. (2022) | 100x225x3.0 | 94.0 | 15.0 | 0.495 | 30 | 0.0000 | 0.0000 | 295.15 | 0.0116233 |
| 73 | E73 | Alatshan et al. (2022) | 150x338x3.0 | 144.0 | 15.0 | 0.495 | 30 | 0.0000 | 0.0000 | 576.64 | 0.0085399 |
| 74 | E74 | Alatshan et al. (2022) | 70x158x2.0 | 66.0 | 35.0 | 0.495 | 30 | 0.0000 | 0.0000 | 146.85 | 0.0063302 |
| 75 | E75 | Alatshan et al. (2022) | 100x225x3.0 | 94.0 | 35.0 | 0.495 | 30 | 0.0000 | 0.0000 | 337.16 | 0.0079382 |
| 76 | E76 | Gupta et al. (2013) | 140x500x3.9 | 132.2 | 35.0 | 0.495 | 30 | 0.0000 | 0.0000 | 599.90 | 0.0050255 |
| 77 | E77 | Gupta et al. (2013) | 160x500x4.3 | 151.5 | 30.0 | 0.495 | 30 | 0.0000 | 0.0000 | 779.00 | 0.0065801 |
| 78 | E78 | Gupta et al. (2013) | 140x500x3.9 | 132.2 | 51.5 | 0.495 | 30 | 0.0000 | 0.0000 | 683.85 | 0.0034637 |
| 79 | G3 | E79 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 40 | 10.00 | 6.0000 | 1305.57 | 0.0073002 |
| 80 | E80 | Fang et al. (2020) | 200x500x7.8 | 184.4 | 28.5 | 0.495 | 40 | 0.00 | 0.0000 | 1146.19 | 0.0074133 |
| 81 | E81 | Chang et al. (2021) | 168x588x5.0 | 158.0 | 29.0 | 0.495 | 40 | 0.00 | 0.0000 | 787.70 | 0.0060925 |
| 82 | E82 | Guo et al. (2008) | 165x495x4.0 | 157.0 | 26.9 | 0.495 | 40 | 0.00 | 0.0000 | 714.68 | 0.0058764 |
| 83 | E83 | Bandyopadhyay et al. (2020) | 160x500x2.3 | 155.4 | 29.3 | 0.495 | 40 | 10.00 | 6.0000 | 816.82 | 0.0047351 |
| 84 | E84 | Bandyopadhyay et al. (2020) | 160x500x3.7 | 152.6 | 29.3 | 0.495 | 40 | 10.00 | 6.0000 | 825.00 | 0.0051604 |
| 85 | E85 | Bandyopadhyay et al. (2020) | 160x500x5.4 | 149.2 | 29.3 | 0.495 | 40 | 10.00 | 6.0000 | 836.38 | 0.0054891 |
| 86 | E86 | Bandyopadhyay et al. (2020) | 160x1000x2.3 | 155.4 | 28.8 | 0.495 | 40 | 10.00 | 6.0000 | 666.37 | 0.0026705 |
| 87 | E87 | Bandyopadhyay et al. (2020) | 160x1000x3.7 | 152.6 | 28.7 | 0.495 | 40 | 10.00 | 6.0000 | 686.56 | 0.003144 |
| 88 | E88 | Bandyopadhyay et al. (2020) | 160x1000x5.4 | 149.2 | 28.7 | 0.495 | 40 | 10.00 | 6.0000 | 699.25 | 0.0034777 |
| 89 | E89 | Bandyopadhyay et al. (2020) | 160x1000x2.3 | 155.4 | 33.1 | 0.495 | 40 | 10.00 | 6.0000 | 695.08 | 0.0024497 |
| 90 | E90 | Bandyopadhyay et al. (2020) | 160x1000x3.7 | 152.6 | 33.0 | 0.495 | 40 | 10.00 | 6.0000 | 714.25 | 0.0028735 |
| 91 | E91 | Bandyopadhyay et al. (2020) | 160x1000x5.4 | 149.2 | 33.0 | 0.495 | 40 | 10.00 | 6.0000 | 735.79 | 0.0034572 |
| 92 | E92 | Bandyopadhyay et al. (2020) | 160x750x2.3 | 155.4 | 28.8 | 0.495 | 40 | 10.00 | 6.0000 | 719.46 | 0.003204 |
| 93 | E93 | Bandyopadhyay et al. (2020) | 160x750x3.7 | 152.6 | 28.7 | 0.495 | 40 | 10.00 | 6.0000 | 724.76 | 0.0035303 |
| 94 | E94 | Bandyopadhyay et al. (2020) | 160x750x5.4 | 149.2 | 28.6 | 0.495 | 40 | 10.00 | 6.0000 | 730.49 | 0.0037996 |
| 95 | E95 | Woldemariam et al. (2019) | 90x180x3.0 | 84.0 | 10.5 | 0.495 | 40 | 0.00 | 0.0000 | 228.33 | 0.0069766 |
| 96 | E96 | Woldemariam et al. (2019) | 110x220x3.0 | 104.0 | 10.5 | 0.495 | 40 | 0.00 | 0.0000 | 314.91 | 0.0101026 |
| 97 | E97 | Woldemariam et al. (2019) | 140x280x3.0 | 134.0 | 10.5 | 0.495 | 40 | 0.00 | 0.0000 | 491.82 | 0.0090825 |
| 98 | E98 | Woldemariam et al. (2019) | 90x180x3.0 | 84.00 | 13.8 | 0.495 | 40 | 0.00 | 0.0000 | 228.55 | 0.0067282 |
| 99 | E99 | Woldemariam et al. (2019) | 110x220x3.0 | 104.0 | 13.8 | 0.495 | 40 | 0.00 | 0.0000 | 322.18 | 0.0095571 |
| 100 | E100 | Woldemariam et al. (2019) | 140x280x3.0 | 134.0 | 13.8 | 0.495 | 40 | 0.00 | 0.0000 | 503.48 | 0.0088337 |
| 101 | E101 | Woldemariam et al. (2019) | 90x180x3.0 | 84.0 | 16.9 | 0.495 | 40 | 0.00 | 0.0000 | 232.02 | 0.0066251 |
| 102 | E102 | Woldemariam et al. (2019) | 110x220x3.0 | 104.0 | 16.9 | 0.495 | 40 | 0.00 | 0.0000 | 324.06 | 0.0088762 |
| 103 | E103 | Woldemariam et al. (2019) | 140x280x3.0 | 134.0 | 16.9 | 0.495 | 40 | 0.00 | 0.0000 | 500.53 | 0.0083578 |
| 104 | E104 | Woldemariam et al. (2019) | 90x180x3.0 | 84.0 | 20.1 | 0.495 | 40 | 0.00 | 0.0000 | 235.98 | 0.0065131 |
| 105 | E105 | Woldemariam et al. (2019) | 110x220x3.0 | 104.0 | 20.1 | 0.495 | 40 | 0.00 | 0.0000 | 327.88 | 0.0084092 |
| 106 | E106 | Woldemariam et al. (2019) | 140x280x3.0 | 134.0 | 20.1 | 0.495 | 40 | 0.00 | 0.0000 | 503.70 | 0.0080354 |
| 107 | E107 | Woldemariam et al. (2019) | 90x180x3.0 | 84.0 | 24.1 | 0.495 | 40 | 0.00 | 0.0000 | 235.42 | 0.0062137 |
| 108 | E108 | Woldemariam et al. (2019) | 110x220x3.0 | 104.0 | 24.1 | 0.495 | 40 | 0.00 | 0.0000 | 332.75 | 0.0078493 |
| 109 | E109 | Woldemariam et al. (2019) | 140x280x3.0 | 134.0 | 24.1 | 0.495 | 40 | 0.00 | 0.0000 | 520.44 | 0.007445 |
| 110 | E110 | Alatshan et al. (2022) | 100x225x3.0 | 94.0 | 15.0 | 0.495 | 40 | 0.00 | 0.0000 | 237.97 | 0.0092231 |
| 111 | E111 | Alatshan et al. (2022) | 150x338x3.0 | 144.0 | 15.0 | 0.495 | 40 | 0.00 | 0.0000 | 468.65 | 0.0065804 |
| 112 | E112 | Alatshan et al. (2022) | 100x225x3.0 | 94.0 | 35.0 | 0.495 | 40 | 0.00 | 0.0000 | 266.40 | 0.0054843 |
| 113 | E113 | Gupta et al. (2013) | 140x500x3.9 | 132.2 | 35.0 | 0.495 | 40 | 0.00 | 0.0000 | 470.64 | 0.0033328 |
| 114 | E114 | Gupta et al. (2013) | 160x500x4.3 | 151.5 | 30.0 | 0.495 | 40 | 0.00 | 0.0000 | 641.13 | 0.0047542 |
| 115 | E115 | Gupta et al. (2013) | 140x500x3.9 | 132.2 | 51.5 | 0.495 | 40 | 0.00 | 0.0000 | 539.12 | 0.002292 |
| 116 | G4 | E116 | Feng and Ditao (2013) | 200x500x7.8 | 184.40 | 29.8 | 0.495 | 0.00 | 10.00 | 6.00 | 2062.24 | 0.0157215 |
| 117 | E117 | Fang et al. (2020) | 200x500x7.8 | 184.40 | 28.5 | 0.495 | 0.00 | 0.00 | 0.00 | 1792.11 | 0.0158095 |
| 118 | E118 | Chang et al. (2021) | 168x588x5.0 | 158.00 | 29.0 | 0.495 | 0.00 | 0.00 | 0.00 | 1296.44 | 0.0162271 |
| 119 | E119 | Guo et al. (2008) | 165x495x4.0 | 157.00 | 26.9 | 0.495 | 0.00 | 0.00 | 0.00 | 1150.49 | 0.0165793 |
| 120 | E120 | Bandyopadhyay et al. (2020) | 160x500x2.3 | 155.40 | 29.3 | 0.495 | 0.00 | 10.00 | 6.00 | 1483.71 | 0.0155232 |
| 121 | E121 | Bandyopadhyay et al. (2020) | 160x500x3.7 | 152.60 | 29.3 | 0.495 | 0.00 | 10.00 | 6.00 | 1522.52 | 0.0161282 |
| 122 | E122 | Bandyopadhyay et al. (2020) | 160x500x5.4 | 149.20 | 29.2 | 0.495 | 0.00 | 10.00 | 6.00 | 1549.08 | 0.0167192 |
| 123 | E123 | Bandyopadhyay et al. (2020) | 160x1000x2.3 | 155.40 | 28.8 | 0.495 | 0.00 | 10.00 | 6.00 | 1454.43 | 0.0179829 |
| 124 | E124 | Bandyopadhyay et al. (2020) | 160x1000x3.7 | 152.60 | 28.7 | 0.495 | 0.00 | 10.00 | 6.00 | 1505.79 | 0.0180809 |
| 125 | E125 | Bandyopadhyay et al. (2020) | 160x1000x5.4 | 149.20 | 28.6 | 0.495 | 0.00 | 10.00 | 6.00 | 1529.69 | 0.0180706 |
| 126 | E126 | Bandyopadhyay et al. (2020) | 160x1000x2.3 | 155.40 | 33.1 | 0.495 | 0.00 | 10.00 | 6.00 | 1496.38 | 0.0177091 |
| 127 | E127 | Bandyopadhyay et al. (2020) | 160x1000x3.7 | 152.60 | 33.0 | 0.495 | 0.00 | 10.00 | 6.00 | 1551.55 | 0.0177804 |
| 128 | E128 | Bandyopadhyay et al. (2020) | 160x1000x5.4 | 149.20 | 33.0 | 0.495 | 0.00 | 10.00 | 6.00 | 1609.04 | 0.0176577 |
| 129 | E129 | Bandyopadhyay et al. (2020) | 160x750x2.3 | 155.40 | 28.8 | 0.495 | 0.00 | 10.00 | 6.00 | 1463.60 | 0.0160323 |
| 130 | E130 | Bandyopadhyay et al. (2020) | 160x750x3.7 | 152.60 | 28.7 | 0.495 | 0.00 | 10.00 | 6.00 | 1492.81 | 0.0166546 |
| 131 | E131 | Bandyopadhyay et al. (2020) | 160x750x5.4 | 149.20 | 28.6 | 0.495 | 0.00 | 10.00 | 6.00 | 1521.62 | 0.0170457 |
| 132 | E132 | Woldemariam et al. (2019) | 90x180x3.0 | 84.00 | 10.5 | 0.495 | 0.00 | 0.00 | 0.00 | 532.10 | 0.0157054 |
| 133 | E133 | Woldemariam et al. (2019) | 110x220x3.0 | 104.00 | 10.5 | 0.495 | 0.00 | 0.00 | 0.00 | 666.00 | 0.0217241 |
| 134 | E134 | Woldemariam et al. (2019) | 140x280x3.0 | 134.00 | 10.5 | 0.495 | 0.00 | 0.00 | 0.00 | 895.00 | 0.016771 |
| 135 | E135 | Woldemariam et al. (2019) | 90x180x3.0 | 84.00 | 13.8 | 0.495 | 0.00 | 0.00 | 0.00 | 526.10 | 0.0152845 |
| 136 | E136 | Woldemariam et al. (2019) | 110x220x3.0 | 104.00 | 13.8 | 0.495 | 0.00 | 0.00 | 0.00 | 683.04 | 0.0219888 |
| 137 | E137 | Woldemariam et al. (2019) | 140x280x3.0 | 134.00 | 13.8 | 0.495 | 0.00 | 0.00 | 0.00 | 888.01 | 0.0164584 |
| 138 | E138 | Woldemariam et al. (2019) | 90x180x3.0 | 84.00 | 16.9 | 0.495 | 0.00 | 0.00 | 0.00 | 520.83 | 0.014848 |
| 139 | E139 | Woldemariam et al. (2019) | 110x220x3.0 | 104.00 | 16.9 | 0.495 | 0.00 | 0.00 | 0.00 | 680.34 | 0.0211653 |
| 140 | E140 | Woldemariam et al. (2019) | 140x280x3.0 | 134.00 | 16.9 | 0.495 | 0.00 | 0.00 | 0.00 | 892.16 | 0.0166974 |
| 141 | E141 | Woldemariam et al. (2019) | 90x180x3.0 | 84.00 | 20.1 | 0.495 | 0.00 | 0.00 | 0.00 | 536.02 | 0.0151161 |
| 142 | E142 | Woldemariam et al. (2019) | 110x220x3.0 | 104.00 | 20.1 | 0.495 | 0.00 | 0.00 | 0.00 | 686.37 | 0.0214186 |
| 143 | E143 | Woldemariam et al. (2019) | 140x280x3.0 | 134.00 | 20.1 | 0.495 | 0.00 | 0.00 | 0.00 | 892.57 | 0.0169387 |
| 144 | E144 | Woldemariam et al. (2019) | 90x180x3.0 | 84.00 | 24.1 | 0.495 | 0.00 | 0.00 | 0.00 | 543.06 | 0.0153472 |
| 145 | E145 | Woldemariam et al. (2019) | 110x220x3.0 | 104.00 | 24.1 | 0.495 | 0.00 | 0.00 | 0.00 | 692.82 | 0.0213791 |
| 146 | E146 | Woldemariam et al. (2019) | 140x280x3.0 | 134.00 | 24.1 | 0.495 | 0.00 | 0.00 | 0.00 | 918.09 | 0.0164578 |
| 147 | E147 | Alatshan et al. (2022) | 70x158x2.0 | 66.00 | 15.0 | 0.495 | 0.00 | 0.00 | 0.00 | 319.34 | 0.0244225 |
| 148 | E148 | Alatshan et al. (2022) | 100x225x3.0 | 94.00 | 15.0 | 0.495 | 0.00 | 0.00 | 0.00 | 544.34 | 0.0247487 |
| 149 | E149 | Alatshan et al. (2022) | 150x338x3.0 | 144.00 | 15.0 | 0.495 | 0.00 | 0.00 | 0.00 | 878.35 | 0.0141953 |
| 150 | E150 | Alatshan et al. (2022) | 70x158x2.0 | 66.00 | 35.0 | 0.495 | 0.00 | 0.00 | 0.00 | 323.74 | 0.0232614 |
| 151 | E151 | Alatshan et al. (2022) | 100x225x3.0 | 94.00 | 35.0 | 0.495 | 0.00 | 0.00 | 0.00 | 603.99 | 0.0217165 |
| 152 | E152 | Gupta et al. (2013) | 140x500x3.9 | 132.20 | 35.0 | 0.495 | 0.00 | 0.00 | 0.00 | 1027.51 | 0.0141492 |
| 153 | E153 | Gupta et al. (2013) | 160x500x4.25 | 151.50 | 30.0 | 0.495 | 0.00 | 0.00 | 0.00 | 1212.46 | 0.0146498 |
| 154 | E154 | Gupta et al. (2013) | 140x500x3.9 | 132.20 | 51.5 | 0.495 | 0.00 | 0.00 | 0.00 | 1120.82 | 0.0145217 |
| 155 | G5 | E155 | Feng and Ditao (2013) | 200x500x7.8 | 184.40 | 29.8 | 0.165 | 0.00 | 10.00 | 6.00 | 1493.19 | 0.0154932 |
| 156 | E156 | Fang et al. (2020) | 200x500x7.8 | 184.40 | 28.5 | 0.165 | 0.00 | 0.00 | 0.00 | 1206.31 | 0.0149269 |
| 157 | E157 | Chang et al. (2021) | 168x588x5.0 | 158.00 | 29.0 | 0.165 | 0.00 | 0.00 | 0.00 | 918.54 | 0.0149933 |
| 158 | E158 | Guo et al. (2008) | 165x495x4.0 | 157.00 | 26.9 | 0.165 | 0.00 | 0.00 | 0.00 | 787.17 | 0.0150364 |
| 159 | E159 | Bandyopadhyay et al. (2020) | 160x500x2.3 | 155.40 | 29.3 | 0.165 | 0.00 | 10.00 | 6.00 | 1000.15 | 0.0156437 |
| 160 | E160 | Bandyopadhyay et al. (2020) | 160x500x3.7 | 152.60 | 29.3 | 0.165 | 0.00 | 10.00 | 6.00 | 1032.10 | 0.0158355 |
| 161 | E161 | Bandyopadhyay et al. (2020) | 160x500x5.4 | 149.20 | 29.2 | 0.165 | 0.00 | 10.00 | 6.00 | 1063.61 | 0.0161262 |
| 162 | E162 | Bandyopadhyay et al. (2020) | 160x1000x2.3 | 155.40 | 28.8 | 0.165 | 0.00 | 10.00 | 6.00 | 961.30 | 0.0174924 |
| 163 | E163 | Bandyopadhyay et al. (2020) | 160x1000x3.7 | 152.60 | 28.7 | 0.165 | 0.00 | 10.00 | 6.00 | 1008.13 | 0.0175222 |
| 164 | E164 | Bandyopadhyay et al. (2020) | 160x1000x5.4 | 149.20 | 28.6 | 0.165 | 0.00 | 10.00 | 6.00 | 1040.01 | 0.0171003 |
| 165 | E165 | Bandyopadhyay et al. (2020) | 160x1000x2.3 | 155.40 | 33.1 | 0.165 | 0.00 | 10.00 | 6.00 | 1011.89 | 0.017252 |
| 166 | E166 | Bandyopadhyay et al. (2020) | 160x1000x3.7 | 152.60 | 33.0 | 0.165 | 0.00 | 10.00 | 6.00 | 1062.40 | 0.0174632 |
| 167 | E167 | Bandyopadhyay et al. (2020) | 160x1000x5.4 | 149.20 | 33.0 | 0.165 | 0.00 | 10.00 | 6.00 | 1121.66 | 0.0165862 |
| 168 | E168 | Bandyopadhyay et al. (2020) | 160x750x2.3 | 155.40 | 28.8 | 0.165 | 0.00 | 10.00 | 6.00 | 974.09 | 0.0165982 |
| 169 | E169 | Bandyopadhyay et al. (2020) | 160x750x3.7 | 152.60 | 28.7 | 0.165 | 0.00 | 10.00 | 6.00 | 1004.17 | 0.0173276 |
| 170 | E170 | Bandyopadhyay et al. (2020) | 160x750x5.4 | 149.20 | 28.6 | 0.165 | 0.00 | 10.00 | 6.00 | 1039.31 | 0.0171347 |
| 171 | E171 | Woldemariam et al. (2019) | 90x180x3.0 | 84.00 | 10.5 | 0.165 | 0.00 | 0.00 | 0.00 | 275.95 | 0.0146221 |
| 172 | E172 | Woldemariam et al. (2019) | 110x220x3.0 | 104.00 | 10.5 | 0.165 | 0.00 | 0.00 | 0.00 | 357.83 | 0.0172831 |
| 173 | E173 | Woldemariam et al. (2019) | 140x280x3.0 | 134.00 | 10.5 | 0.165 | 0.00 | 0.00 | 0.00 | 479.02 | 0.0145736 |
| 174 | E174 | Woldemariam et al. (2019) | 90x180x3.0 | 84.00 | 13.8 | 0.165 | 0.00 | 0.00 | 0.00 | 279.84 | 0.0141469 |
| 175 | E175 | Woldemariam et al. (2019) | 110x220x3.0 | 104.00 | 13.8 | 0.165 | 0.00 | 0.00 | 0.00 | 367.31 | 0.0165749 |
| 176 | E176 | Woldemariam et al. (2019) | 140x280x3.0 | 134.00 | 13.8 | 0.165 | 0.00 | 0.00 | 0.00 | 490.93 | 0.0142936 |
| 177 | E177 | Woldemariam et al. (2019) | 90x180x3.0 | 84.00 | 16.9 | 0.165 | 0.00 | 0.00 | 0.00 | 290.59 | 0.0144222 |
| 178 | E178 | Woldemariam et al. (2019) | 110x220x3.0 | 104.00 | 16.9 | 0.165 | 0.00 | 0.00 | 0.00 | 382.25 | 0.0168312 |
| 179 | E179 | Woldemariam et al. (2019) | 140x280x3.0 | 134.00 | 16.9 | 0.165 | 0.00 | 0.00 | 0.00 | 502.99 | 0.0146488 |
| 180 | E180 | Woldemariam et al. (2019) | 90x180x3.0 | 84.00 | 20.1 | 0.165 | 0.00 | 0.00 | 0.00 | 304.01 | 0.0146907 |
| 181 | E181 | Woldemariam et al. (2019) | 110x220x3.0 | 104.00 | 20.1 | 0.165 | 0.00 | 0.00 | 0.00 | 391.82 | 0.0171532 |
| 182 | E182 | Woldemariam et al. (2019) | 140x280x3.0 | 134.00 | 20.1 | 0.165 | 0.00 | 0.00 | 0.00 | 508.60 | 0.0143099 |
| 183 | E183 | Woldemariam et al. (2019) | 90x180x3.0 | 84.00 | 24.1 | 0.165 | 0.00 | 0.00 | 0.00 | 313.67 | 0.015021 |
| 184 | E184 | Woldemariam et al. (2019) | 110x220x3.0 | 104.00 | 24.1 | 0.165 | 0.00 | 0.00 | 0.00 | 398.47 | 0.0164454 |
| 185 | E185 | Woldemariam et al. (2019) | 140x280x3.0 | 134.00 | 24.1 | 0.165 | 0.00 | 0.00 | 0.00 | 547.35 | 0.0145212 |
| 186 | E186 | Alatshan et al. (2022) | 70x158x2.0 | 66.00 | 15.0 | 0.165 | 0.00 | 0.00 | 0.00 | 153.10 | 0.018004 |
| 187 | E187 | Alatshan et al. (2022) | 100x225x3.0 | 94.00 | 15.0 | 0.165 | 0.00 | 0.00 | 0.00 | 259.76 | 0.0181604 |
| 188 | E188 | Alatshan et al. (2022) | 150x338x3.0 | 144.00 | 15.0 | 0.165 | 0.00 | 0.00 | 0.00 | 444.22 | 0.0138528 |
| 189 | E189 | Alatshan et al. (2022) | 70x158x2.0 | 66.00 | 35.0 | 0.165 | 0.00 | 0.00 | 0.00 | 175.39 | 0.0170836 |
| 190 | E190 | Alatshan et al. (2022) | 100x225x3.0 | 94.00 | 35.0 | 0.165 | 0.00 | 0.00 | 0.00 | 347.33 | 0.0169558 |
| 191 | E191 | Gupta et al. (2013) | 140x500x3.9 | 132.20 | 35.0 | 0.165 | 0.00 | 0.00 | 0.00 | 641.98 | 0.0148607 |
| 192 | E192 | Gupta et al. (2013) | 160x500x4.25 | 151.50 | 30.0 | 0.165 | 0.00 | 0.00 | 0.00 | 744.98 | 0.0148598 |
| 193 | E193 | Gupta et al. (2013) | 140x500x3.9 | 132.20 | 51.5 | 0.165 | 0.00 | 0.00 | 0.00 | 767.40 | 0.0147855 |
| 194 | G6 | E194 | Feng and Ditao (2013) | 200x500x7.8 | 184.40 | 29.8 | 0.330 | 20.00 | 10.00 | 6.00 | 1483.3 | 0.0105532 |
| 195 | E195 | Fang et al. (2020) | 200x500x7.8 | 184.40 | 28.5 | 0.330 | 20.00 | 0.00 | 0.00 | 1266.8 | 0.0107531 |
| 196 | E196 | Chang et al. (2021) | 168x588x5.0 | 158.00 | 29.0 | 0.330 | 20.00 | 0.00 | 0.00 | 917.3 | 0.0094126 |
| 197 | E197 | Guo et al. (2008) | 165x495x4.0 | 157.00 | 26.9 | 0.330 | 20.00 | 0.00 | 0.00 | 828.4 | 0.0095283 |
| 198 | E198 | Bandyopadhyay et al. (2020) | 160x500x2.3 | 155.40 | 29.3 | 0.330 | 20.00 | 10.00 | 6.00 | 1005.3 | 0.008887 |
| 199 | E199 | Bandyopadhyay et al. (2020) | 160x500x3.7 | 152.60 | 29.3 | 0.330 | 20.00 | 10.00 | 6.00 | 1022.9 | 0.0094225 |
| 200 | E200 | Bandyopadhyay et al. (2020) | 160x500x5.4 | 149.20 | 29.2 | 0.330 | 20.00 | 10.00 | 6.00 | 1041.2 | 0.009826 |
| 201 | E201 | Bandyopadhyay et al. (2020) | 160x1000x2.3 | 155.40 | 28.8 | 0.330 | 20.00 | 10.00 | 6.00 | 860.6 | 0.0053436 |
| 202 | E202 | Bandyopadhyay et al. (2020) | 160x1000x3.7 | 152.60 | 28.7 | 0.330 | 20.00 | 10.00 | 6.00 | 880.1 | 0.0061955 |
| 203 | E203 | Bandyopadhyay et al. (2020) | 160x1000x5.4 | 149.20 | 28.6 | 0.330 | 20.00 | 10.00 | 6.00 | 890.2 | 0.0064635 |
| 204 | E204 | Bandyopadhyay et al. (2020) | 160x1000x2.3 | 155.40 | 33.1 | 0.330 | 20.00 | 10.00 | 6.00 | 899.8 | 0.004844 |
| 205 | E205 | Bandyopadhyay et al. (2020) | 160x1000x3.7 | 152.60 | 33.0 | 0.330 | 20.00 | 10.00 | 6.00 | 708.2 | 0.0027545 |
| 206 | E206 | Bandyopadhyay et al. (2020) | 160x1000x5.4 | 149.20 | 33.0 | 0.330 | 20.00 | 10.00 | 6.00 | 948.6 | 0.0064758 |
| 207 | E207 | Bandyopadhyay et al. (2020) | 160x750x2.3 | 155.40 | 28.8 | 0.330 | 20.00 | 10.00 | 6.00 | 889.4 | 0.0058369 |
| 208 | E208 | Bandyopadhyay et al. (2020) | 160x750x3.7 | 152.60 | 28.7 | 0.330 | 20.00 | 10.00 | 6.00 | 900.6 | 0.006409 |
| 209 | E209 | Bandyopadhyay et al. (2020) | 160x750x5.4 | 149.20 | 28.6 | 0.330 | 20.00 | 10.00 | 6.00 | 905.9 | 0.0065668 |
| 210 | E210 | Woldemariam et al. (2019) | 90x180x3.0 | 84.00 | 10.5 | 0.330 | 20.00 | 0.00 | 0.00 | 268.0 | 0.0098177 |
| 211 | E211 | Woldemariam et al. (2019) | 110x220x3.0 | 104.00 | 10.5 | 0.330 | 20.00 | 0.00 | 0.00 | 371.8 | 0.01329 |
| 212 | E212 | Woldemariam et al. (2019) | 140x280x3.0 | 134.00 | 10.5 | 0.330 | 20.00 | 0.00 | 0.00 | 545.7 | 0.0119211 |
| 213 | E213 | Woldemariam et al. (2019) | 90x180x3.0 | 84.00 | 13.8 | 0.330 | 20.00 | 0.00 | 0.00 | 282.2 | 0.0100281 |
| 214 | E214 | Woldemariam et al. (2019) | 110x220x3.0 | 104.00 | 13.8 | 0.330 | 20.00 | 0.00 | 0.00 | 382.5 | 0.0128031 |
| 215 | E215 | Woldemariam et al. (2019) | 140x280x3.0 | 134.00 | 13.8 | 0.330 | 20.00 | 0.00 | 0.00 | 551.8 | 0.0115052 |
| 216 | E216 | Woldemariam et al. (2019) | 90x180x3.0 | 84.00 | 16.9 | 0.330 | 20.00 | 0.00 | 0.00 | 285.0 | 0.0097341 |
| 217 | E217 | Woldemariam et al. (2019) | 110x220x3.0 | 104.00 | 16.9 | 0.330 | 20.00 | 0.00 | 0.00 | 393.8 | 0.0125451 |
| 218 | E218 | Woldemariam et al. (2019) | 140x280x3.0 | 134.00 | 16.9 | 0.330 | 20.00 | 0.00 | 0.00 | 563.1 | 0.0116135 |
| 219 | E219 | Woldemariam et al. (2019) | 90x180x3.0 | 84.00 | 20.1 | 0.330 | 20.00 | 0.00 | 0.00 | 293.5 | 0.0096247 |
| 220 | E220 | Woldemariam et al. (2019) | 110x220x3.0 | 104.00 | 20.1 | 0.330 | 20.00 | 0.00 | 0.00 | 1122.0 | 0.0814981 |
| 221 | E221 | Woldemariam et al. (2019) | 140x280x3.0 | 134.00 | 20.1 | 0.330 | 20.00 | 0.00 | 0.00 | 561.6 | 0.011143 |
| 222 | E222 | Woldemariam et al. (2019) | 90x180x3.0 | 84.00 | 24.1 | 0.330 | 20.00 | 0.00 | 0.00 | 297.4 | 0.0093448 |
| 223 | E223 | Woldemariam et al. (2019) | 110x220x3.0 | 104.00 | 24.1 | 0.330 | 20.00 | 0.00 | 0.00 | 399.2 | 0.0110713 |
| 224 | E224 | Woldemariam et al. (2019) | 140x280x3.0 | 134.00 | 24.1 | 0.330 | 20.00 | 0.00 | 0.00 | 589.9 | 0.010657 |
| 225 | E225 | Alatshan et al. (2022) | 70x158x2.0 | 66.00 | 15.0 | 0.330 | 20.00 | 0.00 | 0.00 | 147.5 | 0.0114663 |
| 226 | E226 | Alatshan et al. (2022) | 100x225x3.0 | 94.00 | 15.0 | 0.330 | 20.00 | 0.00 | 0.00 | 272.9 | 0.0124396 |
| 227 | E227 | Alatshan et al. (2022) | 150x338x3.0 | 144.00 | 15.0 | 0.330 | 20.00 | 0.00 | 0.00 | 522.9 | 0.0100601 |
| 228 | E228 | Alatshan et al. (2022) | 70x158x2.0 | 66.00 | 35.0 | 0.330 | 20.00 | 0.00 | 0.00 | 156.7 | 0.0079656 |
| 229 | E229 | Alatshan et al. (2022) | 100x225x3.0 | 94.00 | 35.0 | 0.330 | 20.00 | 0.00 | 0.00 | 338.6 | 0.0092789 |
| 230 | E230 | Gupta et al. (2013) | 140x500x3.9 | 132.20 | 35.0 | 0.330 | 20.00 | 0.00 | 0.00 | 623.1 | 0.0065232 |
| 231 | E231 | Gupta et al. (2013) | 160x500x4.25 | 151.50 | 30.0 | 0.330 | 20.00 | 0.00 | 0.00 | 767.2 | 0.008021 |
| 232 | E232 | Gupta et al. (2013) | 140x500x3.9 | 132.20 | 51.5 | 0.330 | 20.00 | 0.00 | 0.00 | 733.5 | 0.0045759 |
| 233 | G7 | E233 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 30.00 | 10.00 | 6.00 | 1588.8 | 0.0112612 |
| 234 | E234 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 40.00 | 10.00 | 6.00 | 1462.4 | 0.0098464 |
| 235 | E235 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 50.00 | 10.00 | 6.00 | 1408.5 | 0.0116899 |
| 236 | E236 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 60.00 | 10.00 | 6.00 | 1353.1 | 0.0094211 |
| 237 | E237 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 30.00 | 10.00 | 6.00 | 1232.4 | 0.0072205 |
| 238 | E238 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 40.00 | 10.00 | 6.00 | 1146.2 | 0.0064298 |
| 239 | E239 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 50.00 | 10.00 | 6.00 | 1118.0 | 0.0074918 |
| 240 | E240 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 60.00 | 10.00 | 6.00 | 1060.8 | 0.0059047 |
| 241 | E241 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.165 | 30.00 | 10.00 | 6.00 | 1227.1 | 0.0094864 |
| 242 | E242 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.165 | 50.00 | 10.00 | 6.00 | 1172.3 | 0.0095303 |
| 243 | E243 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.165 | 60.00 | 10.00 | 6.00 | 1158.2 | 0.0088727 |
| 244 | E244 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.165 | 30.00 | 10.00 | 6.00 | 979.5 | 0.0059594 |
| 245 | E245 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.165 | 50.00 | 10.00 | 6.00 | 944.4 | 0.0060935 |
| 246 | E246 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 30.00 | 10.00 | 6.00 | 1398.3 | 0.0089146 |
| 247 | E247 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 50.00 | 10.00 | 6.00 | 1267.7 | 0.0095522 |
| 248 | E248 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 60.00 | 10.00 | 6.00 | 1195.3 | 0.0072849 |
| 249 | E249 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 30.00 | 10.00 | 6.00 | 1085.9 | 0.0059083 |
| 250 | E250 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.165 | 50.00 | 10.00 | 6.00 | 1059.2 | 0.0076628 |
| 251 | E251 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 30.00 | 10.00 | 6.00 | 1898.2 | 0.0162354 |
| 252 | E252 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 40.00 | 10.00 | 6.00 | 1764.7 | 0.0148901 |
| 253 | E253 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 50.00 | 10.00 | 6.00 | 1683.9 | 0.0185209 |
| 254 | E254 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 60.00 | 10.00 | 6.00 | 1617.4 | 0.014679 |
| 255 | E255 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.330 | 30.00 | 10.00 | 6.00 | 1667.9 | 0.0159197 |
| 256 | E256 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.330 | 40.00 | 10.00 | 6.00 | 1579.0 | 0.0149141 |
| 257 | E257 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.330 | 50.00 | 10.00 | 6.00 | 1532.9 | 0.0177934 |
| 258 | E258 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.330 | 60.00 | 10.00 | 6.00 | 1483.0 | 0.0147617 |
| 259 | E259 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 30.00 | 10.00 | 6.00 | 1431.0 | 0.0153045 |
| 260 | E260 | Feng and Ditao (2013) | 200x500x7.8 | 184.4 | 29.8 | 0.495 | 60.00 | 10.00 | 6.00 | 1345.6 | 0.0150564 |

# **Nomenclature**

Ac – the cross-sectional area of concrete core (mm2)

Ag – cross-sectional area of concrete column (mm2)

PVC – Poly Vinyl Chloride

CFPT – Concrete Filled PVC Tubes

FRP – Fibre Reinforce Polymer

CFRP – Carbon Fibre Reinforced Polymer

CCFPT – Carbon Fibre Reinforced Polymer Concrete Filled PVC Tubes

FEM – Finite Element Method

FE – Finite Element

fcc – Confined Concrete compressive strength (MPa)

fco – Unconfined Concrete compressive strength (MPa)

t – thickness of PVC tube (mm)

D – Diameter of the PVC tube (mm)

L / H– Length/height of the PVC tube (mm)

fcc/fco - confined concrete compressive strength to unconfined concrete compressive strength ratio

Dc - Diameter of the concrete core without PVC tube (mm)

fc’ - strength of unconfined concrete cylinder under compression (MPa)

εEP - Peak experimental strain (mm/mm)

εFP - Peak finite element modeling strain (mm/mm)

PEP - Peak Experimental Load (kN)

PFP - Peak finite element modeling Load (kN)

CDPM - Concrete Damaged Plastic Model

Ψ - dilation angle

Kc - Shape factor for the yielding surface

e1 - plastic flow potential eccentricity

e – eccentricity distance (mm)

µ - Viscosity Parameter

fbo/fc’ - ratio of biaxial stress to uniaxial stress

fc’’ - considered to be 80% of the concrete cylinder strength (MPa)

εcc1 - the strain of the confined concrete at the first peak load

εc0 - 0.002 for unconfined concrete strength at peak load

kes - the ratio of effectively confined concrete area to the confined area

fyt - the yield strength of the steel

AAE – Average Absolute Error

MSE – Mean Square Error

MAE – Mean Absolute Error

fl – yield stress of longitudinal steel reinforcement (mm2)

fh - yield stress of hoop steel reinforcement (mm2)

fpvc – yield stress of pvc (mm2)

Ec – Young's modulus of concrete (MPa)

G – Shear Modulus

µ - Poisson’s ratio

MCR – Modified Confined Pressure Ratio (MCR)

- Volumetric ratio of PVC tube

- Volumetric ratio of longitudinal reinforcement

- Volumetric ratio of longitudinal reinforcement

– Volumetric ratio of CFRP

fyl - Yield strength of longitudinal reinforcement

fyh - Yield strength of hoop reinforcement

fPVC - Yield strength of PVC

ECFRP  - Young’s modulus of CFRP

t - thickness of PVC tube (mm)

D - Diameter of column specimen (mm)