



| ASCE 7-10 Exposure C Span and Cantilever Chart in Inches for flush mount of LD rail with 66" Maximum Module Length and building height ≤30                                                                                                                                               |                 |           |           |           |           |           |           |           |           |           |           |           |               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
|                                                                                                                                                                                                                                                                                          | Windspeed (mph) |           |           |           |           |           |           |           |           |           |           |           |               |
| Snow Load, Pg (psf)                                                                                                                                                                                                                                                                      | 105             | 110       | 115       | 120       | 130       | 140       | 150       | 160       | 165       | 170       | 180       | 200       | Roof Pitch    |
| 0                                                                                                                                                                                                                                                                                        | 214<br>74       | 205<br>72 | 197<br>70 | 190<br>68 | 177<br>65 | 165<br>62 | 155<br>60 | 146<br>57 | 142<br>56 | 138<br>55 | 131<br>53 | 118<br>50 | 0 ≤ 7°        |
| 10                                                                                                                                                                                                                                                                                       | 192<br>69       | 187<br>67 | 182<br>66 | 178<br>65 | 170<br>63 | 162<br>61 | 154<br>59 | 146<br>57 | 142<br>56 | 138<br>55 | 131<br>53 | 118<br>50 |               |
| 15                                                                                                                                                                                                                                                                                       | 176<br>65       | 173<br>64 | 169<br>63 | 165<br>62 | 159<br>60 | 152<br>59 | 146<br>57 | 140<br>56 | 137<br>55 | 135<br>54 | 130<br>53 | 118<br>50 |               |
| 20                                                                                                                                                                                                                                                                                       | 164<br>62       | 161<br>61 | 158<br>60 | 155<br>60 | 149<br>58 | 144<br>57 | 139<br>55 | 134<br>54 | 131<br>53 | 129<br>53 | 124<br>51 | 116<br>49 |               |
| 25                                                                                                                                                                                                                                                                                       | 154<br>59       | 151<br>59 | 149<br>58 | 147<br>57 | 142<br>56 | 137<br>55 | 133<br>54 | 128<br>52 | 126<br>51 | 124<br>51 | 120<br>50 | 112<br>48 |               |
| 30                                                                                                                                                                                                                                                                                       | 146<br>57       | 143<br>56 | 141<br>56 | 139<br>55 | 135<br>54 | 131<br>53 | 127<br>52 | 123<br>51 | 121<br>50 | 119<br>50 | 116<br>49 | 109<br>47 |               |
| 40                                                                                                                                                                                                                                                                                       | 132<br>53       | 131<br>53 | 129<br>53 | 127<br>52 | 124<br>51 | 121<br>50 | 118<br>50 | 115<br>49 | 113<br>48 | 112<br>48 | 109<br>47 | 103<br>45 |               |
| 50                                                                                                                                                                                                                                                                                       | 120<br>50       | 120<br>50 | 119<br>50 | 118<br>50 | 116<br>49 | 113<br>48 | 110<br>47 | 108<br>47 | 107<br>46 | 105<br>46 | 103<br>45 | 98<br>44  |               |
| 60                                                                                                                                                                                                                                                                                       | 110<br>47       | 110<br>47 | 110<br>47 | 110<br>47 | 109<br>47 | 106<br>46 | 104<br>46 | 102<br>45 | 101<br>45 | 100<br>44 | 98<br>44  | 93<br>42  |               |
| 0                                                                                                                                                                                                                                                                                        | 223<br>76       | 215<br>74 | 207<br>72 | 199<br>70 | 186<br>67 | 174<br>64 | 163<br>62 | 154<br>59 | 149<br>58 | 145<br>57 | 138<br>55 | 124<br>51 |               |
| 10                                                                                                                                                                                                                                                                                       | 197<br>70       | 192<br>69 | 188<br>68 | 184<br>67 | 175<br>65 | 167<br>63 | 160<br>61 | 153<br>59 | 149<br>58 | 145<br>57 | 138<br>55 | 124<br>51 |               |
| 15                                                                                                                                                                                                                                                                                       | 180<br>66       | 177<br>65 | 173<br>64 | 170<br>63 | 163<br>62 | 157<br>60 | 151<br>58 | 145<br>57 | 142<br>56 | 139<br>55 | 134<br>54 | 124<br>51 |               |
| 20                                                                                                                                                                                                                                                                                       | 167<br>63       | 164<br>62 | 161<br>61 | 159<br>60 | 153<br>59 | 148<br>58 | 143<br>56 | 138<br>55 | 135<br>54 | 133<br>54 | 129<br>53 | 120<br>50 |               |
| 25                                                                                                                                                                                                                                                                                       | 157<br>60       | 154<br>59 | 152<br>59 | 150<br>58 | 145<br>57 | 140<br>56 | 136<br>55 | 132<br>53 | 130<br>53 | 128<br>52 | 124<br>51 | 116<br>49 |               |
| 30                                                                                                                                                                                                                                                                                       | 148<br>58       | 146<br>57 | 144<br>57 | 142<br>56 | 138<br>55 | 134<br>54 | 130<br>53 | 126<br>52 | 124<br>51 | 123<br>51 | 119<br>50 | 112<br>48 |               |
| 40                                                                                                                                                                                                                                                                                       | 133<br>54       | 132<br>54 | 131<br>53 | 129<br>53 | 126<br>52 | 123<br>51 | 120<br>50 | 117<br>49 | 116<br>49 | 114<br>49 | 111<br>48 | 106<br>46 |               |
| 50                                                                                                                                                                                                                                                                                       | 120<br>50       | 120<br>50 | 120<br>50 | 120<br>50 | 117<br>49 | 115<br>49 | 112<br>48 | 110<br>47 | 109<br>47 | 107<br>47 | 105<br>46 | 100<br>44 |               |
| 60                                                                                                                                                                                                                                                                                       | 110<br>47       | 110<br>47 | 110<br>47 | 110<br>47 | 110<br>47 | 108<br>47 | 106<br>46 | 104<br>47 | 103<br>47 | 102<br>47 | 100<br>46 | 96<br>44  |               |
| 0                                                                                                                                                                                                                                                                                        | 214<br>74       | 205<br>72 | 197<br>70 | 190<br>68 | 177<br>65 | 165<br>62 | 155<br>60 | 146<br>57 | 142<br>56 | 138<br>55 | 131<br>53 | 118<br>50 | 27° < 0 ≤ 45° |
| 10                                                                                                                                                                                                                                                                                       | 192<br>69       | 187<br>67 | 182<br>66 | 178<br>65 | 170<br>63 | 162<br>61 | 154<br>59 | 146<br>57 | 142<br>56 | 138<br>55 | 131<br>53 | 118<br>50 |               |
| 15                                                                                                                                                                                                                                                                                       | 176<br>65       | 173<br>64 | 169<br>63 | 165<br>62 | 159<br>60 | 152<br>59 | 146<br>59 | 140<br>57 | 137<br>56 | 135<br>55 | 130<br>53 | 118<br>50 |               |
| 20                                                                                                                                                                                                                                                                                       | 164<br>62       | 161<br>61 | 158<br>60 | 155<br>60 | 149<br>58 | 144<br>57 | 139<br>55 | 134<br>54 | 131<br>53 | 129<br>54 | 124<br>53 | 116<br>50 |               |
| 25                                                                                                                                                                                                                                                                                       | 154<br>59       | 151<br>59 | 149<br>58 | 147<br>57 | 142<br>56 | 137<br>55 | 133<br>55 | 128<br>54 | 126<br>52 | 124<br>53 | 120<br>51 | 112<br>49 |               |
| 30                                                                                                                                                                                                                                                                                       | 146<br>59       | 143<br>56 | 141<br>56 | 139<br>55 | 135<br>54 | 131<br>53 | 127<br>54 | 123<br>52 | 121<br>52 | 119<br>51 | 116<br>50 | 109<br>47 |               |
| 40                                                                                                                                                                                                                                                                                       | 132<br>53       | 131<br>53 | 129<br>53 | 127<br>52 | 124<br>51 | 121<br>50 | 118<br>50 | 115<br>51 | 113<br>48 | 112<br>48 | 109<br>47 | 103<br>45 |               |
| 50                                                                                                                                                                                                                                                                                       | 120<br>50       | 120<br>50 | 119<br>50 | 118<br>50 | 116<br>49 | 113<br>48 | 110<br>47 | 108<br>49 | 107<br>46 | 105<br>46 | 103<br>47 | 98<br>45  |               |
| 60                                                                                                                                                                                                                                                                                       | 110<br>47       | 110<br>47 | 110<br>47 | 110<br>47 | 109<br>47 | 106<br>46 | 104<br>46 | 102<br>45 | 101<br>45 | 100<br>44 | 98<br>44  | 93<br>42  |               |
| Assumptions: Tabulated values only apply to rail stress, the connecting support is not considered. These values are only for Gable Roofs with a mean height below or equal to 30 feet. For roof heights over this limit or conditions not specified please contact PLP for consultation. |                 |           |           |           |           |           |           |           |           |           |           |           |               |

| ASCE 7-10 Exposure C Span and Cantilever Chart in Inches for flush mount of LD rail with 77" Maximum Module Length and building height ≤30                                                                                                                                               |                 |           |           |           |           |           |           |           |           |           |           |           |               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
| Snow Load, Pg (psf)                                                                                                                                                                                                                                                                      | Windspeed (mph) |           |           |           |           |           |           |           |           |           |           |           | Roof Pitch    |
|                                                                                                                                                                                                                                                                                          | 105             | 110       | 115       | 120       | 130       | 140       | 150       | 160       | 165       | 170       | 180       | 200       |               |
| 0                                                                                                                                                                                                                                                                                        | 198<br>70       | 190<br>68 | 183<br>66 | 176<br>65 | 164<br>62 | 153<br>59 | 144<br>57 | 135<br>54 | 131<br>53 | 128<br>52 | 121<br>50 | 110<br>47 | 0 ≤ 7°        |
| 10                                                                                                                                                                                                                                                                                       | 177<br>65       | 173<br>64 | 169<br>63 | 165<br>62 | 157<br>60 | 150<br>58 | 143<br>56 | 135<br>54 | 131<br>53 | 128<br>52 | 121<br>50 | 110<br>47 |               |
| 15                                                                                                                                                                                                                                                                                       | 163<br>62       | 160<br>61 | 156<br>60 | 153<br>59 | 147<br>57 | 141<br>56 | 135<br>54 | 130<br>53 | 127<br>52 | 125<br>51 | 120<br>50 | 110<br>47 |               |
| 20                                                                                                                                                                                                                                                                                       | 152<br>59       | 149<br>58 | 146<br>57 | 144<br>57 | 138<br>55 | 133<br>54 | 128<br>52 | 124<br>51 | 122<br>51 | 119<br>50 | 115<br>49 | 107<br>47 |               |
| 25                                                                                                                                                                                                                                                                                       | 142<br>56       | 140<br>56 | 138<br>55 | 136<br>54 | 131<br>53 | 127<br>52 | 123<br>51 | 119<br>50 | 117<br>49 | 115<br>49 | 111<br>48 | 104<br>46 |               |
| 30                                                                                                                                                                                                                                                                                       | 135<br>54       | 133<br>54 | 131<br>53 | 129<br>53 | 125<br>52 | 121<br>50 | 118<br>49 | 114<br>48 | 112<br>48 | 110<br>47 | 107<br>46 | 101<br>45 |               |
| 40                                                                                                                                                                                                                                                                                       | 122<br>51       | 121<br>50 | 119<br>50 | 118<br>50 | 115<br>49 | 112<br>48 | 109<br>47 | 106<br>46 | 105<br>46 | 103<br>45 | 101<br>45 | 95<br>43  |               |
| 50                                                                                                                                                                                                                                                                                       | 111<br>48       | 111<br>48 | 111<br>47 | 109<br>47 | 107<br>46 | 105<br>46 | 102<br>45 | 100<br>44 | 99<br>44  | 97<br>44  | 95<br>43  | 91<br>41  |               |
| 60                                                                                                                                                                                                                                                                                       | 101<br>45       | 101<br>45 | 101<br>45 | 101<br>45 | 100<br>44 | 98<br>44  | 96<br>43  | 94<br>43  | 93<br>42  | 92<br>42  | 90<br>41  | 86<br>40  |               |
| 0                                                                                                                                                                                                                                                                                        | 207<br>72       | 199<br>70 | 191<br>69 | 184<br>67 | 172<br>64 | 161<br>61 | 151<br>58 | 142<br>56 | 138<br>55 | 134<br>54 | 127<br>52 | 115<br>49 |               |
| 10                                                                                                                                                                                                                                                                                       | 182<br>66       | 178<br>65 | 174<br>64 | 170<br>63 | 162<br>61 | 155<br>60 | 148<br>58 | 142<br>56 | 138<br>55 | 134<br>54 | 127<br>52 | 115<br>49 |               |
| 15                                                                                                                                                                                                                                                                                       | 167<br>63       | 164<br>62 | 160<br>61 | 157<br>60 | 151<br>58 | 145<br>57 | 140<br>55 | 134<br>54 | 132<br>53 | 129<br>53 | 124<br>51 | 115<br>49 |               |
| 20                                                                                                                                                                                                                                                                                       | 155<br>59       | 152<br>59 | 149<br>58 | 147<br>57 | 142<br>56 | 137<br>55 | 132<br>53 | 128<br>52 | 125<br>52 | 123<br>51 | 119<br>50 | 111<br>48 |               |
| 25                                                                                                                                                                                                                                                                                       | 145<br>57       | 143<br>56 | 141<br>56 | 138<br>55 | 134<br>54 | 130<br>53 | 126<br>52 | 122<br>51 | 120<br>50 | 118<br>50 | 114<br>49 | 107<br>47 |               |
| 30                                                                                                                                                                                                                                                                                       | 137<br>55       | 135<br>54 | 133<br>54 | 131<br>53 | 128<br>52 | 124<br>51 | 120<br>50 | 117<br>49 | 115<br>49 | 114<br>48 | 110<br>47 | 104<br>46 |               |
| 40                                                                                                                                                                                                                                                                                       | 123<br>51       | 123<br>51 | 121<br>50 | 120<br>50 | 117<br>49 | 114<br>48 | 111<br>48 | 109<br>47 | 107<br>46 | 106<br>46 | 103<br>45 | 98<br>44  |               |
| 50                                                                                                                                                                                                                                                                                       | 111<br>48       | 111<br>48 | 111<br>48 | 111<br>48 | 109<br>47 | 106<br>46 | 104<br>46 | 102<br>45 | 101<br>45 | 99<br>44  | 97<br>44  | 93<br>42  |               |
| 60                                                                                                                                                                                                                                                                                       | 101<br>45       | 101<br>45 | 101<br>45 | 101<br>45 | 101<br>45 | 100<br>44 | 98<br>44  | 96<br>43  | 95<br>43  | 94<br>43  | 92<br>42  | 88<br>41  |               |
| 0                                                                                                                                                                                                                                                                                        | 198<br>70       | 190<br>68 | 183<br>66 | 176<br>65 | 164<br>62 | 153<br>59 | 144<br>57 | 135<br>54 | 131<br>53 | 128<br>52 | 121<br>50 | 110<br>47 | 27° < 0 ≤ 45° |
| 10                                                                                                                                                                                                                                                                                       | 177<br>65       | 173<br>64 | 169<br>63 | 165<br>62 | 157<br>60 | 150<br>58 | 143<br>56 | 135<br>54 | 131<br>53 | 128<br>52 | 121<br>50 | 110<br>47 |               |
| 15                                                                                                                                                                                                                                                                                       | 163<br>62       | 160<br>61 | 156<br>60 | 153<br>59 | 147<br>57 | 141<br>56 | 135<br>54 | 130<br>53 | 127<br>52 | 125<br>51 | 120<br>50 | 110<br>47 |               |
| 20                                                                                                                                                                                                                                                                                       | 152<br>59       | 149<br>58 | 146<br>57 | 144<br>57 | 138<br>55 | 133<br>54 | 128<br>52 | 124<br>51 | 122<br>51 | 119<br>50 | 115<br>49 | 107<br>47 |               |
| 25                                                                                                                                                                                                                                                                                       | 142<br>56       | 140<br>56 | 138<br>55 | 136<br>54 | 131<br>53 | 127<br>52 | 123<br>51 | 119<br>50 | 117<br>49 | 115<br>49 | 111<br>48 | 104<br>46 |               |
| 30                                                                                                                                                                                                                                                                                       | 135<br>54       | 133<br>54 | 131<br>53 | 129<br>53 | 125<br>52 | 121<br>50 | 118<br>49 | 114<br>48 | 112<br>48 | 110<br>47 | 107<br>46 | 101<br>45 |               |
| 40                                                                                                                                                                                                                                                                                       | 122<br>51       | 121<br>50 | 119<br>50 | 118<br>50 | 115<br>49 | 112<br>48 | 109<br>47 | 106<br>46 | 105<br>46 | 103<br>45 | 101<br>45 | 95<br>43  |               |
| 50                                                                                                                                                                                                                                                                                       | 111<br>48       | 111<br>48 | 111<br>47 | 109<br>47 | 107<br>46 | 105<br>46 | 102<br>45 | 100<br>44 | 99<br>44  | 97<br>44  | 95<br>43  | 91<br>41  |               |
| 60                                                                                                                                                                                                                                                                                       | 101<br>45       | 101<br>45 | 101<br>45 | 101<br>45 | 100<br>44 | 98<br>44  | 96<br>43  | 94<br>43  | 93<br>42  | 92<br>42  | 90<br>41  | 86<br>40  |               |
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