

# X-CEL Optical Technical Data 2012

## Transitions® 1.50 Lenses

### 76mm SFSV and D-28 Gray & Brown, XTRActive

Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
0.50	0.44	0.256	10.6	15.8	-4.00	-9.00 to -7.25
2.25	2.09	1.255	10.6	13.6	-4.00	-7.00 to -4.25
4.25	4.30	2.561	10.6	10.4	-4.00	-4.00 to -3.25
5.25	5.26	3.149	8.7	10.2	-6.00	-3.00 to -1.25
6.25	6.21	3.746	8.7	8.8	-6.00	-1.00 to +2.00
8.25	8.26	5.070	12.3	8.0	-6.00	+2.25 to +5.00

### 72/ 78mm SFSV , D-28, D-35, RD24, 7X28 & 8X35

Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
2.25	2.28	1.347	11.5	16.7	-6.21	-7.00 to -4.25
4.25	4.32	2.590	9.2	12.4	-6.21	-4.00 to -2.25
6.25	6.32	3.813	8.5	8.4	-6.21	-2.00 to +2.00
8.25	8.36	5.138	12.0	8.4	-6.21	+2.25 to +4.25
10.25	10.44	6.578	15.6	8.5	-6.21	+4.50 to +7.00

#### Segment Locations are:

72mm D-28	10 base 5.0 In / 7.0 Down	Gray Only in 1.00 to 3.00 Adds
76mm D-28	5.0 In / 7.0 Down	Gray & Brown in 1.00 to 3.00 Adds
78mm D-28	6.0 In / 6.5 Down	Gray & Brown in 0.75, 3.25 to 5.00 Adds
72mm D-35	5.0 In / 7.0 Down	Gray Only in 1.00 to 3.00 Adds
78mm D-35	6.0 In / 5.5 Down	Gray & Brown in 0.75 to 4.00 Adds
78mm RD24	0.0 In / 9.5 Down	Gray & Brown in 0.75 to 4.00 Adds
72mm 7X28 2 base	5.0 In / 4.0 Down	Gray Only in 1.50 to 3.00 Adds
72mm 7X28 10 base	5.0 In / 4.0 Down	Gray Only in 1.75 to 3.00 Adds
78mm 7X28	6.0 In / 3.5 Down	Gray & Brown in 1.50 to 4.00 Adds
72mm 8X35 2 base	5.0 In / 3.0 Down	Gray Only in 1.50 to 3.00 Adds
78mm 8X35	6.0 In / 2.5 Down	Gray & Brown in 1.50 to 4.00 Adds

### 72mm Freedom ID™ Progressive Gray Only

17mm Fitting Height

Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
1.50	1.58	0.933	10.9	16.1	-6.10	-7.00 to -4.75
3.00	3.31	1.964	12.0	12.0	-4.60	-4.50 to -2.25
5.00	5.35	3.206	7.4	7.6	-6.10	-2.00 to +1.00
6.50	6.69	4.048	9.4	7.6	-6.10	+1.25 to +2.00
7.50	7.51	4.576	10.8	7.4	-6.10	+2.25 to +5.00

Segment Location or Fitting Cross is 2.5mm In / 4.0mm Up from geometric center  
Gray Only in 1.00 to 3.00 adds

All X-Cel Optical Transitions 1.50 lenses block 100% UVA and UVB,  
are scratch coated, are tintable, have an index of 1.50 and an Abbe of 57.0