LP and epithelium dimensions (Z x X x Y): 15 mm x 1.6 mm x 22.09 mm

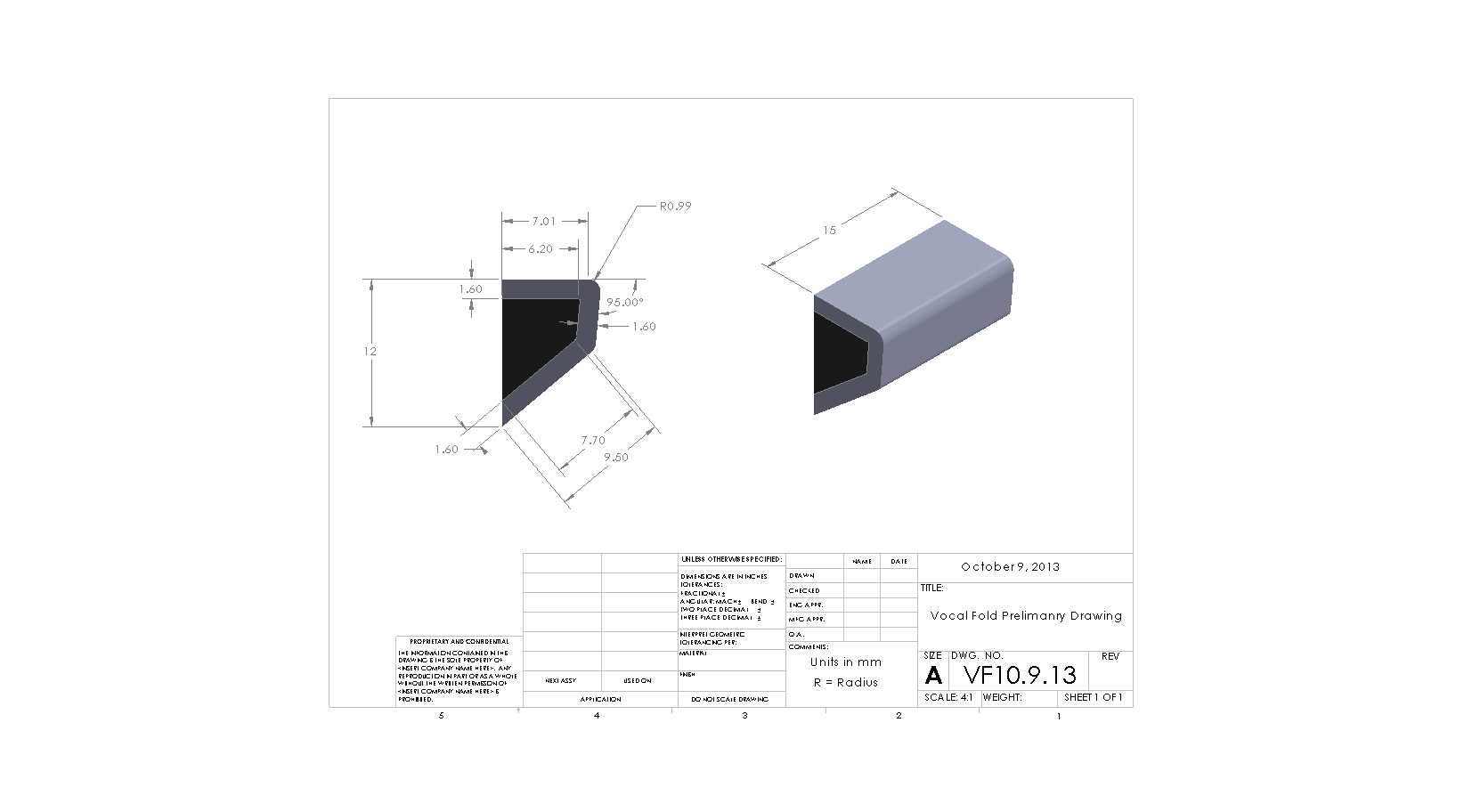


Table 1: Different Definitions of Cover-Body of VF LP1

|  |  |  |  |
| --- | --- | --- | --- |
|  | Cover | Body | Transition |
| Hirano2,3 | Epithelium, SLP | Vocalis muscle | MLP, DLP |
| Titze4 | Epithelium, SLP, ILP | DLP, Vocalis muscle |  |
| Hammond5 | Epithelium. SLP, ILP | MLP, DLP, Vocalis muscle |  |
| Dikkers6 | Epithelium, SLP | Conus elasticus, Vocalis Muscle |  |

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Table 2: VF Layers according the elastin and collagen organization

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| VF Layers | | | Thickness according to collagen organization \*,\*\*\* | Thickness according to elastin organization \*,\*\*\* |
| Superficial  ↓  Deep | LP vibratory cover | Epithelium |  |  |
| Superficial LP | 13% ± 20-64% of LP 2 | 25-35% of LP 10 |
| Transition | Intermediate LP\*\* | 51% ± 28-61% of LP 2 | 45-55% of LP10 |
| VF body | Deep LP | 36% ± 6-18% of LP 2 | 10-30 of LP% |
| Thyroarytenoid Muscle | - | - |

Table 3: VF Layers according the collagen organization

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| VF Layers | | | Thickness according to collagen organization \*,\*\*\* | |
| Superficial  ↓  Deep | LP vibratory cover | Epithelium | 0.05mm3 (5-25 cells 1) | |
| Superficial LP | 1245 ± 668-170 μm 1,2 | 166 ± 51-322 μm 2 |
| Transition | Intermediate LP\*\* | 633 ± 188-1077 μm 2 |
| VF body | Deep LP | 446 ± 360-496 μm 2 |
| Thyroarytenoid Muscle | - | |

\* Modern description of microanatomy of hvf5, 6, 7 by examining amount of fibrous proteins (collagen and elastic fibers) in ECM. Lack of consensus regarding exact boundaries of cover and body with regards to relationship between histologic structures and functional properties 4, will refer to layers according to collagen organization2

\*\* Cover-body theory of phonation. Superficial tissue termed the cover and deeper tissue called body5,6,7. Some studies include intermediate layer in definition of vibrating cover8,9, here we consider to be part of the transitional layer10,11,12.

\*\*\* thickness lateral to the superior and leading edge of the vocal fold

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