8—FOLIATION

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS*	NOTES ON USAGE*
	8.1—Generic f	oliation (origin not knowr	n or not specified)	
8.1.1	Horizontal generic (origin not known or not specified) foliation	•	all lineweights 90°/ .2 mm Gircle diameter	For symbols represent- ing a single observation at one locality, point of
8.1.2	Inclined generic (origin not known or not specified) foliation—Showing strike and dip		1.5 mm \(\sigma \) 2.5 mm 1.0 mm \(\sigma \) 5.5 HI-6 all lineweights 2.2 mm	observation is the mid- point of the strike line. For multiple observa-
8.1.3	Vertical generic (origin not known or not specified) foliation—Showing strike	-	2.0 mm ½ →	tions at one locality, join symbols at the "tail" ends of the strike lines
8.1.4	Inclined (dip direction to right) generic (origin not known or not specified) foliation, for multiple observations at one locality—Showing strike and dip	A ⁵⁵	5.5 * ∠ HI-6 mm 4 55 1.0 mm 1 190°	(opposite the ornamentation); the junction point is at point of observation. To obey the
8.1.5	Inclined (dip direction to left) generic (origin not known or not specified) foliation, for multiple observations at one locality—Showing strike and dip	55	55	right-hand rule, use the "dip direction to right" symbols (use "dip direc-
8.1.6	Vertical generic (origin not known or not specified) foliation or foliation, for multiple observations at one locality—Showing strike	A	2.0 mm 1 ₅	tion to left" symbols only when necessary to pre- vent overcrowding).
	8.2—Primai	ry foliation or layering (in	igneous rocks)	
		, , ,		May be used at locality
8.2.1	Massive igneous rock	×	2.0 mm ★ :: 1 90°	where foliation and lineation are absent.
8.2.2	Horizontal flow banding, lamination, layering, or foliation in igneous rock	©	all lineweights 60°, .2 mm © circle diameter 2.5 mm	For symbols represent- ing a single observation at one locality, point of
8.2.3	Inclined flow banding, lamination, layering, or foliation in igneous rock—Showing strike and dip	_10 	1.0 mm $\frac{\sqrt{\frac{60^{\circ}}{10}}}{\sqrt{\frac{5.0}{mm}}}$ $\stackrel{\text{All lineweights}}{\stackrel{\text{lineweights}}}{\stackrel{\text{lineweights}}}{\stackrel{\text{lineweights}}}{\stackrel{\text{lineweights}}}{\stackrel{\text{lineweights}}}{\stackrel{\text{lineweights}}}{\stackrel{\text{lineweights}}}{\stackrel{\text{lineweights}}}{\stackrel{\text{lineweights}}}{\stackrel{\text{lineweights}}}{\stackrel{\text{lineweights}}}{\stackrel{\text{lineweights}}}{\stackrel{\text{lineweights}}}{\stackrel{\text{lineweights}}}{\stackrel{\text{lineweights}}}{\stackrel{\text{lineweights}}}{\stackrel{\text{lineweights}}}{\stackrel{\text{lineweights}}}{\stackrel{\text{lineweights}$	observation is the mid- point of the strike line. For multiple observa- tions at one locality, join
8.2.4	Vertical flow banding, lamination, layering, or foliation in igneous rock—Showing strike	→	$2.0~mm\frac{\psi}{\Lambda}$ $-\diamondsuit$	symbols at the "tail" ends of the strike lines (opposite the ornamen-
8.2.5	Inclined (dip direction to right) flow banding, lamination, layering, or foliation in igneous rock, for multiple observations at one locality—Showing strike and dip	✓ ¹⁰	5.5 ¥ 10 ∠ HI-6 1.0 mm	tation); the junction point is at point of observation. To obey the
8.2.6	Inclined (dip direction to left) flow banding, lamination, layering, or foliation in igneous rock, for multiple observations at one locality—Showing strike and dip			right-hand rule, use the "dip direction to right" symbols (use "dip direction to left" symbols only
8.2.7	Vertical flow banding, lamination, layering, or foliation in igneous rock, for multiple observations at one locality—Showing strike	A	2.0 mm 🐒	when necessary to prevent overcrowding).
8.2.8	Inclined crinkled or deformed flow banding, lamination, layering, or foliation in igneous rock— Showing approximate strike and dip	20 ~Å~	$\begin{array}{c c} & 60\% \\ 1.0 \text{ mm} & & 20 \\ \hline & 1.0 \text{ mm} \\ & & 5.0 \\ 2 \text{ mm} & & .75 \text{ mm} \end{array}$ all lineweights $\begin{array}{c c} 60\% \\ & & 4.375 \text{ mm} \\ & & .75 \text{ mm radius} \\ \end{array}$	
8.2.9	Vertical or near-vertical crinkled or deformed flow banding, lamination, layering, or foliation in igneous rock—Showing approximate strike	~ ~	2.0 mm	
8.2.10	Horizontal cumulate foliation	⊕	all lineweights .2 mm circle diameter 2.5 mm	Inclined (upright) and overturned cumulate foliation symbols are
8.2.11	Inclined cumulate foliation—Showing strike and dip	<u>45</u>	all lineweights .2 mm $1.0 \stackrel{4}{\cancel{\perp}} \stackrel{45}{\cancel{\parallel}} {\cancel{\parallel}} \stackrel{.5}{\cancel{\parallel}} \stackrel{.5}{\cancel{\parallel}} mm$	used when the top direction of layers is known to a reasonable degree of certainty.
8.2.12	Vertical cumulate foliation—Showing strike	=	2.5 mm ★ = 1	Symbols that have a ball may be used to indicate a greater level
8.2.13	Overturned cumulate foliation—Showing strike and dip	70 -J	1.0 ★ 70 ← HI-6 mm ★625 mm radius	of certainty in the determination of top direction.
8.2.14	Inclined cumulate foliation, where top direction of layers is known from local features—Showing strike and dip	30	all lineweights .2 mm $\stackrel{.5}{\cancel{+}} \underbrace{\frac{30}{\cancel{+}} \stackrel{\cancel{+}}{\cancel{+}} \stackrel{1.0}{\cancel{+}} \underbrace{\frac{30}{\cancel{+}} \stackrel{\cancel{+}}{\cancel{+}} \stackrel{1.0}{\cancel{+}} \underbrace{\frac{10}{\cancel{+}} \underbrace{\frac{30}{\cancel{+}} \stackrel{\cancel{+}}{\cancel{+}} \stackrel{1.0}{\cancel{+}} \underbrace{\frac{10}{\cancel{+}} \underbrace{\frac{30}{\cancel{+}} \stackrel{\cancel{+}}{\cancel{+}} \stackrel{1.0}{\cancel{+}} \underbrace{\frac{10}{\cancel{+}} \underbrace{\frac{30}{\cancel{+}} \stackrel{\cancel{+}}{\cancel{+}} \stackrel{1.0}{\cancel{+}} \underbrace{\frac{10}{\cancel{+}} \underbrace{\frac{30}{\cancel{+}} \stackrel{\cancel{+}}{\cancel{+}} \underbrace{\frac{10}{\cancel{+}} \underbrace{\frac{10}} \underbrace{\frac{10}{\cancel{+}} \underbrace{\frac{10}{\cancel{+}} \underbrace{\frac{10}{\cancel{+}} \underbrace{\frac{10}{\cancel{+}} \frac{$	On maps where determination of top direction is "known" at some pla-
8.2.15	Vertical cumulate foliation, where top direction of layers is known from local features—Showing strike. Ball shows top direction	<u>+</u>	$2.5 \text{ mm} \frac{\psi}{\Lambda} = \frac{\bullet}{1}$	ces and "unknown" at others, symbols that have a ball also may be used to indicate where
8.2.16	Overturned cumulate foliation, where top direction of layers is known from local features—Showing strike and dip	80 • - J	1.0 ★ 80 ← HI-6 mm ★625 mm radius	top direction is "known".

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS*	NOTES ON USAGE*	
	8.2—Primary foliation or layering (in igneous rocks) (continued)				
8.2.17	Inclined crinkled or deformed cumulate foliation— Showing approximate strike and dip	25 ————	1.0 mm $\frac{1}{4}$ 25 HI-6 35 mm all lineweights 2 mm $\frac{1}{4}$ 375 mm radius	For symbols representing a single observation at one locality, point of	
8.2.18	Vertical or near-vertical crinkled or deformed cumulate foliation—Showing approximate strike	₩	$2.375 mm \frac{1}{\Lambda}$	observation is the mid- point of the strike line. For multiple observa-	
8.2.19	Horizontal eutaxitic foliation	⊖	.75 mm 110° all lineweights .2 mm circle diameter 2.5 mm	tions at one locality, join symbols at the "tail" ends of the strike lines (opposite the ornamentation); the junction point is at point of observation. To obey the right-hand rule, use the "dip direction to right" symbols (use "dip direction to left" symbols only	
8.2.20	Inclined eutaxitic foliation—Showing strike and dip	_5	circle diameter 2.5 mm 110° .75 mm 5 HI-6 all lineweights .2 mm		
8.2.21	Vertical or near-vertical eutaxitic foliation—Showing strike	-	1.5 mm ↓ -		
8.2.22	Inclined (dip direction to right) eutaxitic foliation, for multiple observations at one locality—Showing strike and dip	<i>A</i> ⁵	5.5 * HI-6 mm 5 - /110°	when necessary to prevent overcrowding).	
8.2.23	Inclined (dip direction to left) eutaxitic foliation, for multiple observations at one locality—Showing strike and dip	P ⁵	P ⁵		
8.2.24	Vertical or near-vertical eutaxitic foliation, for multiple observations at one locality—Showing strike	Þ	1.5 mm -{		
8.2.25	Inclined crinkled or deformed eutaxitic foliation— Showing approximate strike and dip	<u>15</u> ☆	$\begin{array}{c c} & 110^{\circ} & HI-6 \\ & 15 & 35 \text{ mm} \\ & 15 & \frac{1}{4} & 35 \text{ mm} \\ & 15 & \frac{1}{4} & 375 \text{ mm} \\ & 2 \text{ mm} & .75 \text{ mm radius} \end{array}$		
8.2.26	Vertical or near-vertical crinkled or deformed eutaxitic foliation—Showing approximate strike	➾	$1.5 mm \frac{\psi}{\Lambda} \Longrightarrow$		

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS*	NOTES ON USAGE*	
TILL THO				110120 011 00/102	
8.3—Secondary foliation (caused by metamorphism or tectonism) 6% For symbols represent-					
8.3.1	Horizontal metamorphic or tectonic foliation	•	circle diameter ① 2.5 mm lineweight .2 mm	ing a single observation at one locality, point of observation is the mid-	
8.3.2	Inclined metamorphic or tectonic foliation— Showing strike and dip	35	1.0 mm $\frac{1}{4}$ $\frac{35}{5.0}$ HI-6 lineweight mm 2.2 mm	point of the strike line. For multiple observa- tions at one locality, join	
8.3.3	Vertical metamorphic or tectonic foliation—Showing strike	-	2.0 mm \frac{\psi}{\psi} -\dagge-	symbols at the "tail" ends of the strike lines (opposite the ornamen-	
8.3.4	Inclined (dip direction to right) metamorphic or tectonic foliation, for multiple observations at one locality—Showing strike and dip	× 35	5.5 ♥ mm 35 € HI-6 1.0 mm 160°	tation); the junction point is at point of observation. To obey the	
8.3.5	Inclined (dip direction to left) metamorphic or tectonic foliation, for multiple observations at one locality—Showing strike and dip	→ ³⁵	<i>→</i> ³⁵	right-hand rule, use the "dip direction to right" symbols (use "dip direc- tion to left" symbols only	
8.3.6	Vertical metamorphic or tectonic foliation, for multiple observations at one locality—Showing strike	<i>></i>	2.0 mm ₄	when necessary to prevent overcrowding).	
8.3.7	Horizontal metamorphic or tectonic foliation parallel to bedding	•	circle diameter	Inclined (upright) and overturned foliation symbols are used when	
8.3.8	Inclined metamorphic or tectonic foliation parallel to bedding—Showing strike and dip		1.0 mm $\searrow 10^{6}$ $\searrow 1.0$ mm $\searrow 10^{6}$ $\searrow 1.0$ mm $\searrow 10^{6}$ all lineweights .2 mm	the top direction of bed- ding is known to a rea- sonable degree of cer- tainty.	
8.3.9	Vertical metamorphic or tectonic foliation parallel to bedding—Showing strike	+	$4.0 \text{ mm} \xrightarrow{\frac{1}{\hbar}} \frac{1}{2.0 \text{ mm}}$	Symbols that have a ball may be used to indicate a greater level	
8.3.10	Inclined metamorphic or tectonic foliation parallel to overturned bedding—Showing strike and dip		75 € HI-6 	of certainty in the deter- mination of top direc- tion.	
8.3.11	Inclined metamorphic or tectonic foliation parallel to upright bedding, where top direction of beds is known from local features—Showing strike and dip	. 15	1.0 mm 15 60° dot diameter 1.0 mm 15 HI-6 75 mm all lineweights mm 2 mm	On maps where deter- mination of top direction is "known" at some pla- ces and "unknown" at	
8.3.12	Vertical metamorphic or tectonic foliation parallel to bed- ding, where top direction of beds is known from local features—Showing strike. Ball shows top direction	+	$4.0 \text{ mm} \xrightarrow{\frac{1}{\hbar}} \frac{\frac{1}{4}}{\frac{1}{\hbar}} 2.0 \text{ mm}$	others, symbols that have a ball also may be used to indicate where	
8.3.13	Inclined metamorphic or tectonic foliation parallel to overturned bedding, where top direction of beds is known from local features—Showing strike and dip	. 8 5	85 ← HI-6 • ★ .625 mm radius	top direction is "known".	
8.3.14	Inclined crinkled or deformed metamorphic or tectonic foliation—Showing approximate strike and dip	30	1.0 mm $\frac{\sqrt{30}}{\sqrt{1000}}$ HI-6 $\frac{\sqrt{30}}{\sqrt{1000}}$ Inneweight .2 mm $\frac{\sqrt{5.0}}{\sqrt{1000}}$.75 mm radius		
8.3.15	Vertical or near-vertical crinkled or deformed meta- morphic or tectonic foliation—Showing approxi- mate strike	~ 	2.0 mm ½ ~◆~		
8.3.16	Horizontal continuous, penetrative foliation	н	1.0 mm all lineweights circle diameter 2.5 mm	For symbols represent- ing a single observation at one locality, point of	
8.3.17	Inclined continuous, penetrative foliation—Showing strike and dip	25 ⊩ -≜ -#	1.0 mm \$\frac{1}{4}\$ \frac{1}{4}\$ \frac{1}{4	observation is the mid- point of the strike line. For multiple observa- tions at one locality inin	
8.3.18	Vertical continuous, penetrative foliation—Showing strike	н 🔷 н	2.0 mm	tions at one locality, join symbols at the "tail" ends of the strike lines (opposite the ornamen-	
8.3.19	Inclined (dip direction to right) continuous, penetrative foliation, for multiple observations at one locality—Showing strike and dip	× ²⁵	5.5 ¥ 25 ← Hl-6 1.0 mm ← 5.5 mm 1.0 mm ← 60	tation); the junction point is at point of observation. To obey the	
8.3.20	Inclined (dip direction to left) continuous, penetrative foliation, for multiple observations at one locality—Showing strike and dip	→ ²⁵	→ ²⁵	right-hand rule, use the "dip direction to right" symbols (use "dip direction to left" symbols only	
8.3.21	Vertical continuous, penetrative foliation, for multiple observations at one locality—Showing strike	*	2.0 mm ₄	when necessary to prevent overcrowding).	

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS*	NOTES ON USAGE*	
	8.3—Secondary foliation (caused by metamorphism or tectonism) (continued)				
8.3.22	Horizontal disjunctive, spaced foliation	l ()	circle diameter 2.5 mm all lineweights . 2 mm 3.6 mm	For symbols represent- ing a single observation at one locality, point of	
8.3.23	Inclined disjunctive, spaced foliation—Showing strike and dip	30 H▲H	HI-6 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	observation is the midpoint of the strike line. For multiple observations at one locality, join symbols at the "tail" ends of the strike lines (opposite the ornamentation); the junction point is at point of observation. To obey the "dip direction to right" symbols (use "dip direction to left" symbols only when necessary to prevent overcrowding).	
8.3.24	Vertical disjunctive, spaced foliation—Showing strike	। 	2.0 mm + + + + + + + + + + + + + + + + + +		
8.3.25	Inclined (dip direction to right) disjunctive, spaced foliation, for multiple observations at one locality—Showing strike and dip	×130	5.5 ₹30 ← HI-6 mm 1.0 mm 1.0 mm 60°		
8.3.26	Inclined (dip direction to left) disjunctive, spaced foliation, for multiple observations at one locality—Showing strike and dip	× 30	Jan 30		
8.3.27	Vertical disjunctive, spaced foliation, for multiple observations at one locality—Showing strike	*	2.0 mm/s		
8.3.28	Horizontal disjunctive, symmetric crenulation foliation	◆	circle diameter 60°, all lineweights 2.5 mm .2 mm		
8.3.29	Inclined disjunctive, symmetric crenulation foliation—Showing strike and dip	35 H 242 H	draft as shown 60% HI-6 1.0 mm 1.0 mm 1.0 mm 1.0 mm 1.0 mm		
8.3.30	Vertical or near-vertical disjunctive, symmetric crenulation foliation—Showing strike	HAPH	2.0 mm + ++++++++++++++++++++++++++++++++		
8.3.31	Inclined (dip direction to right) disjunctive, symmetric crenulation foliation, for multiple observations at one locality—Showing strike and dip	35	5.5 \(35 \) HI-6 1.0 mm \(\) 1.0 mm \(\) 60° draft as shown		
8.3.32	Inclined (dip direction to left) disjunctive, symmetric crenulation foliation, for multiple observations at one locality—Showing strike and dip	35	35		
8.3.33	Vertical or near-vertical disjunctive, symmetric cren- ulation foliation, for multiple observations at one locality—Showing strike	×	2.0 mm *		
8.3.34	Horizontal disjunctive, asymmetric (S-shaped, counterclockwise sense of shear) crenulation foliation	③	circle diameter 60°, all lineweights 2.5 mm 2.2 mm		
8.3.35	Inclined disjunctive, asymmetric (S-shaped, counterclockwise sense of shear) crenulation foliation—Showing strike and dip	40 1-35-1	$\begin{array}{c c} & 607 & HI-6 \\ & 1.0 \text{ mm} \frac{40}{1} & \frac{40}$		
8.3.36	Vertical or near-vertical disjunctive, asymmetric (S-shaped, counterclockwise sense of shear) crenulation foliation—Showing strike	⊢≸ ⊢	2.0 mm + +-		
8.3.37	Inclined (dip direction to right) disjunctive, asymmetric (S-shaped, counterclockwise sense of shear) crenulation foliation, for multiple observations at one locality—Showing strike and dip	× 40	5.5 \ 40 \ HI-6 1.0 mm \ 40 \ draft as shown		
8.3.38	Inclined (dip direction to left) disjunctive, asymmetric (S-shaped, counterclockwise sense of shear) crenulation foliation, for multiple observations at one locality—Showing strike and dip	× ⁴⁰	×40		
8.3.39	Vertical or near-vertical disjunctive, asymmetric (S-shaped, counterclockwise sense of shear) crenulation foliation, for multiple observations at one locality—Showing strike	*	2.0 mm 4		
8.3.40	Horizontal disjunctive, asymmetric (Z-shaped, clockwise sense of shear) crenulation foliation	®	circle diameter 60°, all lineweights 2.5 mm 2 mm		
8.3.41	Inclined disjunctive, asymmetric (Z-shaped, clockwise sense of shear) crenulation foliation— Showing strike and dip	45	1.0 mm $\frac{45}{45}$ $\frac{1}{4}$ 1.0 mm $\frac{1}{6}$ draft as shown		
8.3.42	Vertical or near-vertical disjunctive, asymmetric (Z-shaped, clockwise sense of shear) crenulation foliation—Showing strike	₽ L	2.0 mm 1		
8.3.43	Inclined (dip direction to right) disjunctive, asymmetric (Z-shaped, clockwise sense of shear) crenulation foliation, for multiple observations at one locality—Showing strike and dip	×45	5.5.5 \(45 \rightarrow HI-6 \) 1.0 mm \(\frac{1}{1.0 mm} \(\frac{1}{1.0 mm} \) 1.0 mm \(\frac{1}{1.0 mm} \)		
8.3.44	Inclined (dip direction to left) disjunctive, asymmetric (Z-shaped, clockwise sense of shear) crenulation foliation, for multiple observations at one locality—Showing strike and dip	×45	, ⁴⁵		
8.3.45	Vertical or near-vertical disjunctive, asymmetric (Z-shaped, clockwise sense of shear) crenulation foliation, for multiple observations at one locality—Showing strike	*	2.0 mm *		

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS*	NOTES ON USAGE*		
	8.3—Secondary foliation (caused by metamorphism or tectonism) (continued)					
8.3.46	Horizontal gneissic layering	ŀ ⊕ ŀ	circle diameter 2.5 mm all lineweights 2 mm 4.0 mm	For symbols representing a single observation at one locality, point of		
8.3.47	Inclined gneissic layering—Showing strike and dip	<u>50</u>	HI-6 \ \ \frac{60\gamma}{50} \ \frac{\psi}{\psi} 1.0 \ mm \ \ \frac{\psi}{\psi} \ \frac{\psi}{\psi} 1.0 \ mm \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	observation is the mid- point of the strike line. For multiple observa- tions at one locality, join		
8.3.48	Vertical or near-vertical gneissic layering—Showing strike	⊢	2.0 mm / ←	symbols at the "tail" ends of the strike lines (opposite the ornamen-		
8.3.49	Inclined (dip direction to right) gneissic layering, for multiple observations at one locality—Showing strike and dip	50	5.5 \(\sigma \) HI-6 1.0 mm 1.0 mm 60°	lopposite the ornamentation); the junction point is at point of observation. To obey the right-hand rule, use the "dip direction to right" symbols (use "dip direction to left" symbols only		
8.3.50	Inclined (dip direction to left) gneissic layering, for multiple observations at one locality—Showing strike and dip	→ ⁵⁰	▶ ⁵⁰			
8.3.51	Vertical or near-vertical gneissic layering, for multiple observations at one locality—Showing strike	<i>></i>	2.0 mm _K	when necessary to prevent overcrowding).		
8.3.52	Horizontal undulatory gneissic layering	r⊕n	circle diameter 2.5 mm radius 2.5 mm 1.0 ± ± 3.75 mm radius 2.5 mm			
8.3.53	Inclined undulatory gneissic layering—Showing strike and dip	55	$HI-6$ $\begin{array}{c} 60\% \\ 55\% \\ \hline 1.0 \text{ mm} \\ \hline \end{array}$ $\begin{array}{c} 1.0 \text{ mm} \\ \hline \end{array}$ $\begin{array}{c} 4 \\ \hline \end{array}$ $\begin{array}{c} 375 \text{ mm} \\ \hline \end{array}$ all lineweights 1.0 mm			
8.3.54	Vertical or near-vertical undulatory gneissic layering —Showing strike	~	2.0 mm ×			
8.3.55	Horizontal mylonitic foliation	⊕	circle diameter 2.5 mm \Leftrightarrow $\stackrel{\checkmark}{\cancel{\pm}} 1.5$ mm all lineweights .2 mm ${\cancel{\pm}} 1.475$ mm			
8.3.56	Inclined mylonitic foliation—Showing strike and dip	60 - Å -	HI-6 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
8.3.57	Vertical or near-vertical mylonitic foliation— Showing strike	- ₩-	2.0 mm + ++-			
8.3.58	Inclined (dip direction to right) mylonitic foliation, for multiple observations at one locality—Showing strike and dip	→ ⁶⁰	5.5 \(\sigma \) 60 \(< \sigma \) HI-6			
8.3.59	Inclined (dip direction to left) mylonitic foliation, for multiple observations at one locality—Showing strike and dip	№ ⁶⁰	№ 60			
8.3.60	Vertical or near-vertical mylonitic foliation, for multiple observations at one locality—Showing strike	*	2.0 mm/ _K			